UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ✓ ELECTRIC LOGS ✓ X WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

870121 Oper chg Utex to ANR eff 12/1/86 880216 Oper. chg. Nos. 5 to No. 75 1-1-88
+890905 Recompl in GR-WS: 960311 ANR to Coastal eff. 12-27-95: 9-6-94 CBL
** RE-ENTRY "SWD"

DATE FILED 4-14-72 ** 6-22-94

LAND: FEE & PATENTED X STATE LEASE NO. PUBLIC LEASE NO. INDIAN

DRILLING APPROVED: 4-14-72 ** 6-23-94

SPUDDED IN: 4-15-72 + 7-13-89 ** 7-20-94

COMPLETED: 10-7-72 + PUT TO PRODUCING: 10-7-72 + 7-13-89

INITIAL PRODUCTION: 1632 BOPD 1489 MCF/D + 15 BOPD, 30 MCF, 775 BWPD

GRAVITY A.P.I. 43.9°

GOR: 912:1

PRODUCING ZONES: 13,156'-15,139' (SEE FILE (WSTC) + 10101-15108 GR-WS

TOTAL DEPTH: 15,337'

WELL ELEVATION: 7049' GL 7073' KB

DATE ABANDONED: PA 1-18-90

FIELD: Altamont

UNIT:

COUNTY: Duchesne

WELL NO. SHELL-DUNCAN-TEW #1-9B5 API NO. 43-013-30121

LOCATION 2334 FT. FROM (N) (~~S~~) LINE, 1201 FT. FROM (E) (~~W~~) LINE. SW SE NE ¼-¼ SEC. 9

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR: ~~Utex Oil Co.~~
				2 S	5 W	9	Coastal Oil & Gas Corp. ANR Production Co.

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River 10,100	Frontier	Phosphoria	Elbert
	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridge)	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBONIFEROUS	North Point
Wasatch 11,665	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafeal Gr.	Weber	ORDOVICIAN
Flagstaff 13,720	Summerville	Morgan	Eureka Quartzite
North Horn 14,390	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE-CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

SHELL OIL COMPANY

1700 BROADWAY

DENVER, COLORADO 80202

April 11, 1972

Subject: Shell-Duncan-Tew 1-9B5
2334' FNL & 1201' FEL
Section 9-T2S-R5W
Altamont Field
Duchesne County, Utah

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention Mr. Cleon B. Feight

Gentlemen:

The attached application for a drilling permit for Shell-Duncan-Tew 1-9B5, Section 9-T2S-R5W, Duchesne County, Utah, specifies a location which does not conform to the order issued in Cause No. 139-4. This location would cause the least disruption of natural drainage and irrigation features while maintaining relative conformity with the established spacing pattern.

Shell Oil Company requests approval of this exception location for topographic reasons under the provision of the above order.

Yours very truly,

G. G. Carnahan
Division Engineering Manager
Rocky Mountain Division

NWN:ch

Attachments

Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well
Oil Well [X] Gas Well [ ] Other Single Zone [X] Multiple Zone [ ]

2. Name of Operator
Shell Oil Company
Walter Duncan

3. Address of Operator
1700 Broadway, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface
2334' FNL and 1201' FEL Sec 9
At proposed prod. zone

5. Lease Designation and Serial No.
Patented

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name
Duncan-Tew

9. Well No.
1-9B5

10. Field and Pool, or Wildcat
Altamont

11. Sec., T., R., M., or Blk. and Survey or Area
SE/4 NE/4 Section 9-T 2S-R 5W

14. Distance in miles and direction from nearest town or post office*
2 miles southwest of Talmage

12. County or Parrish
Duchesne

13. State
Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
1201' from sec line
1201' from property line

16. No. of acres in lease
560

17. No. of acres assigned to this well
640

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
No other wells on lease

19. Proposed depth
15,400'

20. Rotary or cable tools
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
7047 GL (Ungraded)

22. Approx. date work will start*
Immediately

23.
PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement

As per attached drilling prognosis and survey plat.

A location exception letter is also attached.

Verbal approval obtained from Mr. Paul Burchell 4-11-72

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.
Signed ..... Title Division Operations Engr. Date April 12, 1972

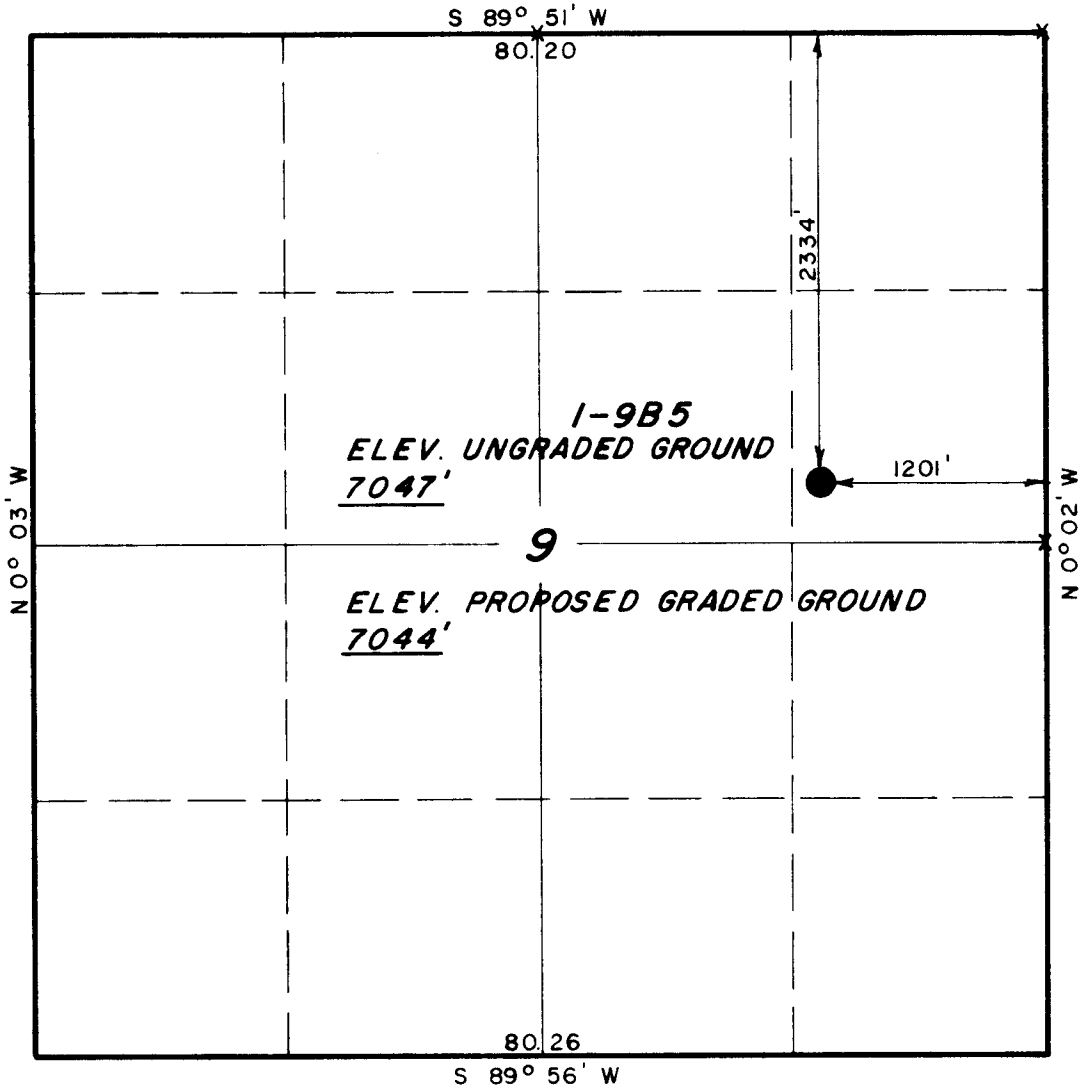
(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....
Conditions of approval, if any:

*See Instructions On Reverse Side

T2S, R5W, U.S.B.&M.



X = Section Corners Located (STONE)

PROJECT

SHELL OIL COMPANY

Well location, *I-9B5*, located as shown in the SE 1/4 NE 1/4 Section 9, T2S, R5W, U.S.B.&M. Duchesne County, Utah.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Leon E. Hall

REGISTERED LAND SURVEYOR
REGISTRATION No 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 7 April, 1972
PARTY G.S. M.T. D.F.	REFERENCES GLO Plat
WEATHER Good	FILE SHELL OIL CO.

April 14, 1972

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Shell-Duncan-Tew #1-9B5
Sec. 9, T. 2 S, R. 5 W, USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the topographic exception under the Order issued in Cause No. 139-3/ 139-4.

It should be noted that the following mud system monitoring equipment must be installed (with derrick floor indicators) and used throughout the period of drilling after setting and cementing the surface casing:

(1) Recording mud pit level indicator to determine mud pit volume gains and losses. This indicator shall include a visual or audio warning device.

(2) Mud volume measuring device for accurately determining mud volumes required to fill the hole on trips.

(3) Mud return indicator to determine that returns essentially equal the pump discharge rate.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to completing this form will be greatly appreciated.

The API number assigned to this well is 43-013-30121.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

Form OGCC-3

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE/4 NE/4 Section 9-T 2S-R 5W

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Shell Oil Company (Rocky Mountain Div. Production)
Walter Duncan

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 2334' FNL and 1201' FEL Sec 9
At top prod. interval reported below
At total depth

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-30121	4-14-72	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-15-72	9-3-72	10-7-72	7047 GL, 7073 KB	14'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
15,337	15,150		→	Total	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Wasatch, Flagstaff & No. Horn Transition perfs 13,156-15,137

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SP, BHCS-GR w/cal, FDC-CNL and Csg Cal

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68#	351'	17½"	700 sx	0
9 5/8"	40#	5841'	12¼"	650 sx	0
7"	29#	11,999'	8 3/4"	400 sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	11,716	15,270	701	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*): As per attachments

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
10-7-72	flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-22-72	24	17/64"		1632	1489	0	912

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2600	30		1632	1489	0	43.9° API

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used on rig, heater, treaters & remainder flared

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Well Log and History, Csg and Cmtg Details

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED K R Jourdan TITLE Division Operations Engr. DATE Dec. 12, 1972

*(See Instructions and Spaces for Additional Data on Reverse Side)

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1413 BO, no wtr and 1609 MCF gas on 14/64" chk w/2800 psi FTP and 40 psi CP. OCT 2 0 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. OIL WELL COMPLETE. On 24-hr tests, well flowed as follows from Wasatch, Flagstaff and North Horn Transition perfs 13,156, 13,219, 13,233, 13,296, 13,310, 13,354, 13,368, 13,375, 13,389, 13,401, 13,415, 13,432, 13,444, 13,497, 13,522, 13,560, 13,569, 13,618, 13,630, 13,643, 13,685, 13,705, 13,722, 13,738, 13,768, 13,840, 14,030, 14,056, 14,137, 14,150, 14,191, 14,240, 14,250, 14,442, 14,572, 14,693, 14,725, 14,784, 14,849, 14,859, 14,870, 14,930, 14,955, 14,987, 15,002, 15,032, 15,127:

Rpt Date	BO	BW	MCF Gas	Chk	FTP	CP
10/22	1632	0	1489	17/64"	2600	30

Oil Gravity: 43.9° API @ 60°F.
Test Date: 10/22/72. Initial Prod Date: 10/7/72.
Elev: 7047 GL, 7073 KB
LOG TOPS: TGR-3 10,100 (-3027)
U. WASATCH TRANSITION 11,665 (-4592)
L. WASATCH TRANSITION 13,220 (-6147)
FLAGSTAFF 13,720 (-6647)
NORTH HORN TRANSITION 14,390 (-7317)
This well was an exploratory stepout which establishes production in the north half of T 2S-R 5W.
FINAL REPORT. OCT 2 3 1972

CASING AND CEMENTING

FIELD ALTAMONT WELL TEW 1-9B5 KB TO CHF --

Shoe jt started in hole 6 PM 9-8-72

Ran 86 jts 18# S00-95 & N-80 SFJ-P 5" liner to 15,270'

JTS	WT	GRADE	ST&C LT&C	NEW	FEET	FROM	TO
36	18#	S00-95	SFJ-P	X	1392	13,878	15,270
50	18#	N-80	SFJ-P	X	2154	11,724	13,878
	Burns plain type hanger					11,716	11,724

86 jts Total

Liner top at 11,716
Hall Diff Collar at 15,149
Hall Diff Shoe at 15,270

No. Make and Type:

18 B & W centralizers spaced every 200'

Cementing:

Cmt'd w/549 sx Class "G" cem, 2% gel, 1% D-31, .2% R-5 followed by 152 sx Class "G" cem, 30% D-8, 1% D-31, 1.5% R-5. 5 bbls water ahead, 7 bbls behind plug. Wiper plug sheared 2600. Displaced 150 bbls. Did not bump plug. BJ left 100-200 sx in bulk truck where truck malfunctioned. Pneumatic system went out on cem truck while mixing slurry. Finished mixing w/standby truck. Slurry wt varied from 13.0-15.8 ppg throughout job.

CASING AND CEMENTING

FIELD ALTAMONT WELL TEW 1-9B5 KB TO CHF --

Shoe jt started in hole 3 AM 7-24-72

Ran 383 jts S-95 & P-110 29# 7" casing to 11,999'

JTS	WT	GRADE	ST&C LT&C	NEW	FEET	FROM	TO
325	29#	S-95	LT&C	X	9538	11,999	2461
58	29#	P-110	LT&C	X	2476	2461	Sfc
383	jts	Total					

Howco self-fill collar at 11,865

Howco self-fill shoe at 11,999

No. Make & Type:

2 centralizers spaced 10' from shoe and 120' from shoe

Cementing:

With 20 bbls water ahead, cemented through shoe at 11,999' w/250 sx Howco lite cem, followed by 150 sx Class "G" Neat, 1% CFR-2 and .2% HR-4. (Wt 12.9-15.9#/gal). Bumped plug w/2,000 psi. Lost circ w/170 bbls mud to displace. CIP 3:20 PM 7-24.

CASING AND CEMENTING

FIELD ALTAMONT WELL TEW 1-9B5 KB TO CHF 14'

Shoe jt started in hole 2:15 AM 5-6-72

Ran 143 jts K-55 & N-80 S & LT&C 40# 9 5/8" csg to 5841'

JTS	WT	GRADE	ST&C LT&C	NEW	FEET	FROM	TO
42	40#	K-55	ST&C	X	1727	4114	5841
101	40#	N-80	LT&C	X	4114	Sfc	4114
143 jts	Total						

Float collar at 5794

Guide shoe at 5841

No. Make & Type:

3 centralizers 6' above shoe, 1 jt above float collar and 3 jts above float collar.

Cementing:

Dowell cemented w/250 sx 1:1 poz, 2% gel, followed by 400 sx Class "G" retarded cmt, 2%NaCl. Preceded and followed by 15 bbls water. Bumped plug w/2,000 psi, float held. No returns. CIP 11:15 AM. After 19 hrs, pumped 300 sx Class "G", 3% $CaCl_2$ down annulus, no pressure. Displaced with water.

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, well flowed 2686 BO, no wtr and 2044 MCF gas on 17/64" chk w/3600 psi FTP and 80 psi CP. OCT 1 1 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 2200 BO, no wtr and 2064 MCF gas on 17/64" chk w/3450 psi FTP and 110 psi CP. OCT 1 1 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1750 BO, no wtr and 2050 MCF gas on 17/64" chk w/3100 psi FTP and 110 psi CP. OCT 1 2 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1798 BO, no wtr and 1800 MCF gas on 17/64" chk w/3100 psi FTP and 75 psi CP. OCT 1 3 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On various tests, well flowed as follows: OCT 1 6 1972

Date	Hrs	BO	BW	MCF Gas	Chk	FTP	CP
10/14	24	1740	0	2050	17/64"	3000	140
10/15	23	1886	0	1575	17/64"	3000	60
10/16	24	2149	7	845	17/64"	3000	140

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 23-hr test, flowed 1615 BO, 1 BW and 1442 MCF gas on 17/64" chk w/2950 psi FTP and 30 psi CP. OCT 1 7 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1473 BO, 1 BW and 995 MCF gas on 17/64" chk w/2950 psi FTP and 60 psi CP. OCT 1 8 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1644 BO, 1 BW and 1652 MCF gas on 14/64" chk w/2950 psi FTP and 43 psi CP. OCT 1 9 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Prep to flow well to pit. SITP 3350 psi. RU OWP and perf'd one hole at each of following depths using 2" magnetic decentralized steel tube carrier gun w/JRC charges: 13,705, 13,722, 13,738, 13,768, 13,840, 14,030, 14,056, 14,137, 14,150, 14,191, 14,240, 14,250, 14,442, 14,572, 14,693, 14,725, 14,784, 14,849, 14,859, 14,870, 14,930, 14,955, 14,987, 15,002, 15,032, and 15,127, w/press from 3750-3500 psi. RD OWP. RU B-J and pmpd 26,000 gal 15% HCl containing 20# G-5, 3 gal C-15, 3# G-7 and 3 gal J-22/1000 gal w/fifty-eight 7/8" ball sealers (1.4 gravity). Flushed w/6500 gal FW containing 165# NaCl and 20# G-5/1000 gal. Max press 9500 psi, avg 8800 psi, min 7900 psi. Max rate 13 B/M, avg 12 B/M, min 10 B/M. ISIP 4100 psi, decr to 3700 psi in 5 min, to 3600 psi in 10 min, to 3500 psi in 15 min. Max of 2700 HP, avg of 2590 HP and min of 1915 HP. Had poor ball action. RD B-J. OCT 3 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. SI for BHP. SITP 3250 psi @ 7 AM, 10/4. Opened well to pit and flowed approx 100 BW and acid gas on 64/64" chk w/1050 psi TP. Flowed approx 250 BO/H and 4 MMCF gas on following chks and press's:

Chk	FTP	Chk	FTP
64/64"	1050	24/64"	3450
54/64"	1320	14/64"	4230
44/64"	1780	4/64"	4530
34/64"	2470		

Flowed each chk for approx 15 min. SITP 4600 psi. Backed well down w/60 bbls diesel. Max press 4900 psi, SITP 4300 psi. OCT 4 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. SI for BHP. OCT 5 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. SI for BHP. Will pull bomb today. OCT 6 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150.
10/7: SI, prep to flow. Pulled BHP.
10/8-9: Flowing. On various tests, well flowed as follows:

Date	Hrs	BO	BW	MCF gas	Chk	FTP	CP
10/8	15	784	1	1776	14/64"	4100	85
10/9	24	1956	0	1764	17-10/64"	4050	80

OCT 9 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150.
9/30: Prep to perf. Press tested tbg to 7500 psi for 1 hr, OK. Installed BP valve, removed BOP, installed 10,000# Xmas tree, removed BP valve, and installed test plug. Tested tree to 10,500 psi, OK. Removed test plug. Released rig @ 1 PM. RU Archer-Reed. Knocked out tbg plug. Lost tools in hole. Released Archer-Reed. Tbg design as follows: Baker Model "C" plug holder @ 11,010', seal assembly @ 11,000', Baker Model "EL" on-off tool @ 10,995', 4' x 2-7/8" EUE tbg sub w/cent, 5 jts 2-7/8" EUE 8rd tbg, Merla KBM mandrel test #9-110 @ 10,831, 11 jts tbg, KBM mandrel test #9-107 @ 10,486', 15 jts tbg, KBM mandrel test #9-106 @ 10,019', 23 jts tbg, KBM mandrel test #9-105 @ 9306', 31 jts tbg, KBM mandrel test #9-104 @ 8346', 44 jts tbg, KBM mandrel test #9-103 @ 6986', 59 jts tbg, KBM mandrel test #9-101 @ 5164', 76 jts tbg, KBM mandrel test #9-100 @ 2819', 90 jts tbg, 10' sub and 1 jt tbg (total of 355 jts 2-7/8" N-80 EUE 8rd tbg, 8 KBM Merla mandrels, one 4' sub, one 10' sub). Tbg landed w/ 10,000# set-down wt.
10/1: Prep to perf. RU and ran in hole w/Archer-Reed to fish for tools to knock out plug. Made gauge run to 12,500'. Pulled out of hole and ran fishing tools to 15,150. Picked up fish - pulled to btm of tbg. Jarred into tbg and jarred off fish. Ran down, shearing jars. Picked up fish and jarred out of hole. Rec 2 sinker bars. Ran back in hole to 32' and rec remainder of fish. Jars badly bent. RD Archer-Reed. RU McC and ran in hole to perf. Collar locator stopped working. Pulled out of hole - line stranded @ 150'. Made necessary repairs.
10/2: Perforating. Made perf run #2. Shot one hole @ 13,156' - had five wild shots @ approx 13,219, 13,296, 13,354, 13,375, 13,401±. Press from 600-2400 psi. Made perf run #3. Shot one hole @ following depths: 13,233, 13,310, 13,368, 13,389, 13,415, 13,432, 13,444, 13,497, 13,522, 13,560, 13,569, 13,618, 13,630, 13,643, and 13,685. Press from 2900-2750 psi. Stranded line coming out of hole, taking 7½ hrs to trip out. RD McC. OCT 2 1972

Shell-Duncan-Tew 1-9B5
(D) Western Oilwell
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. (RRD 9/19/72)
9/24: RU Western Oilwell Service. MI Western and started RU on 9/23.
9/25: Running mill and scraper. Finished RU. Unloaded tbg. Picked up 4-1/8" mill and 7" scraper and started in hole. SEP 2 5 1972

Shell-Duncan-Tew 1-9B5
(D) Western Oilwell
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Pulling tbg. Finished picking up singled and Baker sealing. Ran to 10,000' and broke circ, circ every 1000'. Ran to 15,150 and ran 5-bbl gel plug. Displaced mud w/FW. SEP 2 6 1972

Shell-Duncan-Tew 1-9B5
(D) Western Oilwell
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Prep to run 5½" heat string. Pulled out of hole w/tbg, laying down 130 jts. RU McC and ran CBL, VDL and PDC logs from 15,147-9800 under 3000 psi. Top of cmt @ 9960. Ran Baker Model "D" to 11,000'. RD McC. SEP 2 7 1972

Shell-Duncan-Tew 1-9B5
(D) Western Oilwell
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Running prod eqmt. Ran 104 jts 5½" 14# K-55 ST&C csg w/turned down collars, landing @ 4451'. Installed BP valve, removed BOP, installed 10" 5000 psi x 6" 5000 psi tbg hanger, installed BOP and removed BP valve. Tested BOP. Picked up prod tube, seal assembly, on-off tool, 3 jts tbg and KBM mandrel. SEP 2 8 1972

Shell-Duncan-Tew 1-9B5
(D) Western Oilwell
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Nippling up. Had leak in Baker on-off tool, replaced and press tested OK. Ran tbg and KBM mandrel, testing to 7500 psi. Latched into pkr, spaced out and jayed off. Displaced FW w/ inhib wtr. Displaced tbg w/2% NaCl. SEP 2 9 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

15,337/95/107/0. PBTD 15,270. Going in hole to CO 5" liner. Finished CO cmt to 11,716. Tested liner lap to 2000 psi. Started in hole w/4-1/8" bit.
Mud: 14.2 x 46 SEP 12 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

15,337/95/108/0. PBTD 15,150. RU Dia-log csg caliper. CO cmt from 15,010-15,150. Press tested 5" liner to 2000 psi. SEP 13 1972
Mud: (gradient .738) 14.2 x 47 x 14.2

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

15,337/95/109/0. PBTD 15,150. Testing csg. Ran Dialog csg profile log. Set pkr @ 11,675 and press tested lap to 2000 psi. Pmpd in 80 BW for inflow test, testing for 30 min, OK. Tested annulus to 2000 psi and csg as follows:

Pkr Setting	Tested Csg To
8500'	3000 psi
5200'	4000 psi
2000'	5000 psi

SEP 14 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

15,337/95/110/0. PBTD 15,150. Testing. Swabbed and surge tested 24 hrs on 9/14.
Mud: (gradient .738) 14.2 x 47 x 16.0 SEP 15 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

9/16: 15,337/95/111/0. PBTD 15,150. Circ and cond mud. Changed out recording charts. Swab and surge tested 8 hrs.
Mud: 14.1 x 53 x 14.0 (9% LCM)
9/17: 15,337/95/112/0. PBTD 15,150. Tripping. Circ 5 hrs, shaking LCM out of mud. Slugged pipe and tripped out. Tripped to 11,645, taking swab and surge tests for 6 hrs. Changed out recorders twice.
Mud: 14.1 x 45 x 17.0
9/18: 15,337/95/113/0. PBTD 15,150. Tripping in w/ 2-7/8" DP. Swab and surge tested 5½ hrs. Tripped in w/3½" DP and laid down same. Started tripping in w/2-7/8" DP.
Mud: 14.1 x 45 x 17.0 SEP 18 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. RDRT. Finished running in 2-7/8" DP and DC's and laid down same. Installed tbg hanger w/BP valve and Xmas tree. Released rig @ 4 PM, 9/18/72. Started RD. (RDUFA) SEP 19 1972

(Continued)
gas: 10 units. Connection gas: 20 units.
Mud: (gradient .733) 14.1 x 47 x 7.2 (12% LCM)
9/5: 15/337/95/100/0. Circ and prep to pull out of hole. Circ w/partial returns @ 15,337 for 2 hrs. Pulled into csg slowly. Built vol and circ w/partial returns @ 11,900. Built mud vol and WO hole to heal. Circ and cond mud @ 11,900 w/hole taking mud. Lost 440 bbls mud last 24 hrs. Background gas: 20 units.
Mud: 14.1 x 90 x 7.2 (18% LCM) SEP 5 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

15,337/95/101/0. Cond mud @ 14,000. Established circ. Cond mud to 14.0 ppg. Btms up gas 300 units. Pulled 8 stds and swbd in 6 bbls. Ran back 8 stds. Btms up gas 800 units. Raised mud wt to 14.2 ppg. Ran to 14,000' and circ 400 units gas in btms up. SEP 6 1972
Mud: (gradient .733) 14.1 x 47 x 9.6 (20% LCM)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

15,337/95/102/0. Logging. Circ and cond mud for logs @ 15,290. Ran DIL and started running FDC-CNL. SEP 7 1972
Mud: 14.2 x 45 x 8.8 (16% LCM)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

15,337/95/103/0. Circ. Finished running FDC-CNL and BHCS-GR. Strapped and rabbitted pipe and staged in @ 10,000, 12,000, 14,000 and TD. Cond mud for liner. Btms up gas: 400-900 units. SEP 8 1972
Mud: (gradient .738) 14.2 x 48 x 11.2 (10% LCM)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
5" liner @ 15,270'

9/9: 15,337/95/104/0. Circ @ 12,000' w/liner. Cond mud for liner 6 hrs. Made up liner and staged in hole, breaking circ @ 9000' and 12,000'.
Mud: (gradient .738) 14.2 x 44 x 10.2 (10% LCM)
9/10: 15,337/95/105/0. WOC. Ran and cmtd 86 jts 5" 18# N-80 and SOO-95 SPJ-P liner (3554') to 15,270' w/549 sx Class "G" w/2% gel, 1% D-31, and 0.2% R-5 followed by 152 sx Class "G" w/30% D-8, 1% D-31 and 1.5% R-5 - 5 bbls wtr ahead and 7 bbls wtr behind. Wiper plug sheared w/2600 psi. Displaced w/150 bbls mud. Did not bump plug. Had full returns. B-J left 100± sx in bulk tank when truck malfunctioned (pneumatic system failed) about 1/3 thru job. Finished mixing and displacing w/standby truck. Slurry wt varied from 13.0 to 15.8 throughout job. Hal fill shoe @ 15,270, fill collar @ 15,149, and Burns plain type hanger @ 11,716.
9/11: 15,337/95/106/0. PB 15,270. CO cmt. Laid down extra DP. Picked up 2-7/8" DP and ran 6-1/8" bit, finding top of cmt @ 10,988. SEP 11 1972
Mud: 14.2 x 45

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,365/95/89/76. Drilling. Lost 250± bbls mud.
Mud: (gradient .738) 14.2 x 47 x 8.8 (15% LCM) AUG 2 5 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

8/26: 14,395/95/90/30. Drilling. Pumped in pill. Allowed well to flow dead (22 bbls in 1 hr). Pulled to shoe and swbd in 13 bbls. Checked for flow - no flow. Pulled 6 stds. Gained 1 bbl. Hole would not take fluid. Ran to btm and resumed drlg and cond mud. Btms up gas: 400-600 units.
Mud: (gradient .744) 14.3 x 42 x 9.0
8/27: 14,430/95/91/35. Drilling. Tripped to inspect HW DP and DC's. Two DC's damaged and stab cracked. Background gas: 10 units. Trip gas: 360 units.
Mud: (gradient .749) 14.4 x 53 x 9.2 (10% LCM)
8/28: 14,541/95/92/111. Drilling. Background gas: 5 units. AUG 2 8 1972
Mud: (gradient .733) 14.1 x 45 x 7.2 (6% LCM)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,672/95/93/131. Drilling. Background gas: 5-10 units.
Mud: (gradient .728) 14.0 x 33 x 10 (4% LCM) AUG 2 9 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,832/95/94/160. Drilling. Background gas: 20-30 units. Connection gas: 200-300 units.
Mud: (gradient .728) 14.0 x 46 x 10 (4% LCM) AUG 3 0 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,921/95/95/91. Drilling. Lost returns @ 14,880. Mixed and spotd mud and LCM. Lost 550 bbls mud. Background gas: 10-20 units. Connection gas: 100-350 units.
Mud: 14.0 x 48 x 8.8 (8% LCM) AUG 3 1 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

15,045/95/96/124. Drilling. Background gas: 20-30 units. Connection gas: 120-320 units.
Mud: (gradient .733) 14.1 x 51 x 8.8 (8% LCM) SEP 1 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

9/2: 15,153/95/97/108. Drilling. No mud loss.
Mud: (gradient .738) 14.2 x 47 x 7.6 (6% LCM)
9/3: 15,259/95/98/106. Drilling. Drlg break from 15,170-176. Lost 75 bbls mud. Btms up gas: 60 units. Background gas: 30 units. Connection gas: 240 units.
Mud: 14.2 x 47 x 9.2 (12% LCM)
9/4: 15,337/95/99/78. Mixing mud. Drlg break 15,335-337. Lost complete circ. Sptd LCM pill and gained circ. Started drlg, losing complete circ. Started mixing mud and sptg pill w/partial returns. Lost 500 bbls mud. Background

(Continued)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,752/95/81/0. Prep to drill. Circ and cond mud @ 1000' w/partial returns. Tripped to 12,000' and circ and cond mud. Mixed and sptd LCM, getting partial returns. Finished trip in hole and circ and cond mud 12½ hrs, getting partial returns, then losing returns. Built vol and sptd 35#/bbl LCM pill and worked pipe, getting partial returns. Circ btms up. Max gas 1200 units w/some oil. Circ and built vol, getting full returns. Lost 650 bbls mud. AUG 17 1972
Mud: (gradient .723) 13.8 x 54 x 11.2 (10% LCM) (1% oil)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,816/95/82/64. Drilling. Circ and cond mud @ 13,725. Washed to btm @ 13,752. Lost 140 bbls mud. Background gas: 500 to 50 units. AUG 18 19[illegible]
Mud: (gradient .723) 13.9 x 62 x 8.0 (18% LCM) (1% oil)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

8/19: 13,872/95/83/56. Drilling. Well flowing back @ 2 B/M. SI w/400 psi on DP and 150 psi CP. Circ thru chk and raised mud wt from 13.9 to 14.1 ppg. Max gas: 600 units w/tr of oil. Background gas: 40 units. Connection gas: 380 units. Lost 70 bbls mud.
Mud: 14.1 x 70 x 8.0 (20% LCM) (1% oil)
8/20: 13,923/95/84/51. Drilling. Checked well for flow. Closed well in w/120 psi on DP and 50 psi on csg. No mud loss. Background gas: 30-40 units. Connection gas: 130 units.
Mud: (gradient .733) 14.1 x 50 x 6.4 (22% LCM) (1% oil)
8/21: 13,990/95/85/67. Drilling.
Mud: (gradient .730) 14 x 50 x 6.2 (22% LCM) AUG 21 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,083/95/86/93. Drilling. Background gas: 10 units. Connection gas: 360 units.
Mud: (gradient .733) 14.1 x 51 x 7.6 AUG 22 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,185/95/87/102. Drilling. Background gas: 30 units. Downtime gas - 5 zones: 600-900 units w/14.1 ppg mud. Show @ 11,150 - 110 units.
Mud: (gradient .744) 14.3 x 45 x 8.4 (12#/bbl LCM) AUG 23 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

14,280/95/88/95. Mixing mud and LCM. Lost complete circ while drlg @ 14,272. Sptd LCM pill, regaining circ. Drld to 14,280, losing returns. Lost 300 bbls mud. Background gas: 90 units. Connection gas: 190 units. AUG 24 1972
Mud: (gradient .744) 14.3 x 47 x 8.4 (12% LCM)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,342/95/73/107. Drilling. Mixed LCM and built vol. Lost 350± bbls @ 13,330. Background gas: 5-10 units. Connection gas: 25 units.
Mud: (gradinet .670) 13.0 x 45 x 7 AUG 9 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,443/95/74/101. Drilling. Background gas: 10 units. Connection gas: 100 units.
Mud: (gradient .670) 12.9 x 44 x 8.8 AUG 10 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,550/95/75/107. Drilling.
Mud: (gradient .670) 12.9 x 48 x 8.7 AUG 11 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

8/12: 13,602/95/76/52. Drilling. Drld 16 hrs w/reduced pump - lost partial returns. Circ out gas show @ 13,570. (3800 units gas). Cut mud from 13.0 to 11.8 ppg. Lost circ while raising mud to 13.2 ppg. Lost 420 bbls last 20 hrs. Background gas: 1000 units. Connection gas: 1300 units.
Mud: (gradient .700) 13.5 x 54 x 6.0
8/13: 13,696/95/77/94. Drilling. Lost 200 bbls mud. Background gas: 400-700 units.
Mud: (gradient .702) 13.5 x 45 x 7.2 (10% LCM)
8/14: 13,752/95/78/56. Well SI w/500 psi on annulus; mixing mud. Lost 150 bbls mud. Sptd LCM pill. Well flowed 27 bbls, then died. Pulled 4 stds. Swbd in 10 bbls and ran back to btm. Had 1000 units in btms up. Resumed drlg slowly while adding LCM. Well started flowing. SI well w/500 psi on annulus and zero press on DP. Lost 750± bbls. Background gas: 200-300 units.
Mud: (gradient .702) 13.5 x 56 x 6.8 (20% LCM) AUG 14 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,752/95/79/0. Circ and cond mud to 14.0 ppg, working and rotating DP. Circ thru chk 17½ hrs, circ and cond mud. Circ thru FL 6½ hrs to built mud wt to 14 ppg AUG 15 1972
Mud: (gradient .723) 13.9 x 44 x 5.4 (15% LCM) (4% oil)

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,752/95/80/0. Tripping in hole, circ @ 10,000'. Circ and cond mud 8 hrs. Tested BOP's, chk manifold, etc to 5000 psi. Changed out kelly. Staged in hole to 8000' and 10,000'. Lost 100 bbls mud.
Mud: 14.0 x 45 x 5.4 (5% LCM) (4% oil) AUG 16 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

7/29: 12,220/95/62/113. Drilling. Had 200-unit gas show @ 12,220.
Mud: (gradient .463) 8.4 x 40 x 14.4
7/30: 12,272/95/63/52. Drilling. Circ hole 6½ hrs. Background gas: 5 units. Trip gas: 1500 units. 30-min downtime gas: 3000 units.
Mud: (gradient .480) 9.3 x 41 x 12.4
7/31: 12,420/95/64/148. Drilling. Background gas: 5 units.
Mud: (gradient .489) 9.4 x 38 x 12.4 JUL 31 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

12,512/95/65/92. Drilling. Had kick @ 12,487 w/9.3 ppg mud in DP, 200 psi DP press and zero to ? CP, 8 bbl gain. Background gas: 100-200 units.
Mud: (gradient .530) 10.2 x 42 x 10.0 AUG 1 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

12,630/95/66/118. Drilling. Background gas: 60 units.
Mud: (gradient .546) 10.5 x 41 x 7.2 (1% oil) AUG 2 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

12,720/95/67/90. Tripping out of hole for new bit. Background gas: 15 units.
Mud: (gradient .598) 11.5 x 42 x 6.4 AUG 3 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

12,830/95/68/110. Drilling. Finished trip for new bit. Reamed and washed 50'. Background gas: 25 units.
Mud: (gradient .598) 11.5 x 43 x 8.0 AUG 4 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

8/5: 12,955/95/69/125. Drilling. Background gas: 10 units.
Mud: (gradient .634) 12.2 x 41 x 8.0
8/6: 13,064/95/70/109. Drilling.
Mud: (gradient .630) 12.2 x 41 x 8.0
8/7: 13,122/95/71/58. Tripping in hole w/new bit. Lost 70 bbls mud @ 13,090.
Mud: (gradient .650) 12.5 x 43 x 8.0 AUG 7 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
7" csg @ 11,999'

13,235/95/72/113. Drilling. Lost 145± bbls mud @ 13,178'.
Mud: (gradient .670) 12.9+ x 45 x 6.8 AUG 8 1972

Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 9-5/8" csg @ 5841'	12,000/93/54/0. Circ @ 7160 w/full returns. Lost circ while circ @ 12,000'. Pulled bit to 11,800 - unable to circ. Pulled bit to 8280 - unable to circ. Pulled bit to 5900 - unable to circ. Ran bit to 7160, sptd two LCM slugs and circ w/full returns. Lost 1080 bbls mud. Mud: (gradient .457) 8.8 x 38 x 13.6 (8% LCM) JUL 2 1 1972
Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 9-5/8" csg @ 5841'	7/22: 12,000/93/55/0. Logging. Circ btms up @ 7160. Ran bit to 8600 and circ btms up from 10,500-11,800. Washed and reamed from 11,800-12,000. Circ and cond mud for logs. Mud: (gradient .457) 8.8 x 37 x 13.6 (8% LCM) 7/23: 12,000/93/56/0. Going in hole. Ran logs as follows: BHCS-GR w/cal, FDC-CNL, DIL. Staged in hole, breaking circ @ 6000, 8000 and 10,000. 7/24: 12,000/95/57/0. Running 7" csg. Washed 60' to btm. Circ and cond mud. Laid down DP and DC's. Changed rams and started running csg. Mud: (gradient .457) 8.8 x 45 x 10.0 JUL 2 4 1972
Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 7" csg @ 11,999'	12,000/95/58/0. Testing BOP's. Ran 383 jts 7" 29# P-110 and S-95 csg to 11,999 and cmtd w/250 sx Howco Lite cmt, followed by 150 sx Class "G" w/1% CFR-2 and 0.2% HR-4. Bumped plug w/2000 psi. Lost circ w/170 bbls mud to displace. CIP @ 3:20 PM, 7/24. Nipple up BOP's. Tested packing to 3000 psi. JUL 2 5 1972
Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 7" csg @ 11,999'	12,000/95/59/0. Picking up 3½" DP. Finished testing BOP's, chk manifold and pump lines to 5000 psi. Tested Hydril to 3000 psi. Ran Dia-log csg caliper from sfc to 10,000'. JUL 2 6 1972
Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 7" csg @ 11,999'	12,026/95/60/26. Tripping in hole w/new bit. Finished picking up 3½" DP. Tested csg to 3000 psi for 30 min. Drld out cmt from 11,850-11,999. Mud: (gradient .457) 8.8 x 40 JUL 2 7 1972
Shell-Duncan-Tew 1-9B5 (D) Parker #117 15,400' Wasatch Test 7" csg @ 11,999'	12,107/95/61/81. Drilling. Mud: (gradient .463) 8.9 x 39 x 13.6 JUL 2 8 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

11,574/93/47/244. Drilling. Background gas: 40 units. Connection gas: 110 units.
Mud: (gradient .460) 8.8 x 43 x 13.2 (4% LCM) JUL 14 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7/15: 11,672/93/48/98. Mixing volume. Lost returns while drlg @ 11,668. Lost 600 bbls mud. Tripped for new bit @ 11,672.
Mud: (gradient .460) 8.8 x 44 x 13.2
7/16: 11,772/93/49/100. Drilling. Staged in hole and broke circ @ 6000, 8000, 10,000 and btm. Drld w/3/4 pump, losing mud when pump increased. Background gas: 5-40 units. Trip gas: 1800 units.
Mud: (gradient .468) 9.0 x 45 x 12.0 (3% LCM)
7/17: 11,871/93/50/99. Pulling out of hole. Lost circ while drlg @ 11,871. Lost 200± bbls mud. Started pulling out of hole. Inspected 302 jts 7" csg - rejected 1 jt P-110 and 3 jts CS-95. Background gas: 5 units.
Mud: (gradient .468) 9.0 x 43 x 12 (3% LCM) JUL 17 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

11,960/93/51/89. Drilling. Tripped in hole w/new bit, breaking circ. Background gas: 5 units. Trip gas: 2000 units.
Mud: (gradient .473) 9.1 x 35 x 12.4 JUL 18 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

12,000/93/52/40. Schl tools stuck - WO fishing tools. Dev: 5° @ 12,000'. Circ hole 3½ hrs prior to logging. Made SLM - no correction. RU Schl and ran DIL-SP log to 12,000'. Tools stuck @ 11,812 while logging out - unable to work loose.
Mud: (gradient .473) 9.1 x 37 x 12.0 JUL 19 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

12,000/93/53/0. Reaming @ 11,950. Made up Schl overshot, cut logging line and stripped over line to 11,800. Latched onto tools and pulled line out of hole. Pulled tools w/ overshot. Reamed out bridge @ 11,800. Washed and reamed to btm.
Mud: (gradient .473) 9.1 x 36 x 12.0 JUL 20 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

10,028/93/40/0. WOC.
Set RTTS tool at 1600'. Tested BP to 2000 psi. Pulled tool and set at 1301'. Sqz'd w/400 sx Class "G" 10 sx gilsonite, and 3% $CaCl_2$. Max press - 600. Overdisplaced w/12 bbls. Released tool and pulled up hole 5' leaving 200 psi on cmt. After WOC 12 hrs, released press and set tool at 1300'. Broke form down w/800 psi. Pumped in 10 BW at 0 psi. Sqz'd w/200 sx Class "G", 1/8#/sx Nylon, and .2% CFR-2. Max press - 800. CIP 11:30 a.m. Released tool and pulled out of hole. WOC. Est top of cmt - 1450'.
Mud: (.433) JUL 7 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7/8: 10,028/93/41/0. Pulling out of hole. WOC. Ran bit and CO cmt from 1407 to 1568. Tested hole in 9-5/8" csg @ 1565 - would not hold. Pulled out of hole to resqz. Pmpd in 200 sx Class "G" cmt treated w/3% $CaCl_2$ in two stages down 9-5/8" x 13-3/8" annulus w/no press. Unable to fill annulus. JUL 1 0 1972
Mud: Wtr
7/9: 10,028/93/42/0. Washing to btm. Set RTTS @ 1329'. Fm broke down @ 1.5 B/M w/700 psi. Mixed 400 sx Class "G" cmt treated w/3% $CaCl_2$ and sqzd away 360 sx - final press 1200 psi. CIP @ 11:05 AM. Ran drlg assembly and CO cmt from 1469 to 1565. Tested hole in 9-5/8" csg to 1000 psi for 15 min, OK. Drld out E-Z BP @ 5500'.
Mud: Wtr
7/10: 10,333/93/43/305. Drilling. Reamed 1 hr.
Mud: Wtr

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

10,877/93/44/544. Drilling. Lost approx 50 bbls mud after mudding up.
Mud: (gradient .440) 8.5 x 34 x 11.2 JUL 1 1 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

11,287/93/45/410. Drilling.
Mud: (gradient .450) 8.7 x 30 x 10.4 JUL 1 2 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

11,330/93/46/43. Drilling. Dev: 4½° @ 11,280'. Tripped for new bit @ 11,290, losing returns w/20 stds out of hole. Built mud volume. Washed to btm 2½ hrs. Regained partial circ. Lost 1700± bbls mud and wtr. Background gas: 30 units. Trip gas: 400 units.
Mud: (gradient .460) 8.8 x 46 (8% LCM) JUL 1 3 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

7413/93/30/243. Milling on cone. Lost one cone in hole while tripping for new bit. Reamed from 7350-7413.
Mud: Wtr JUN 2 7 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7450/93/31/37. Drilling. Milled on jk 7 hrs.
Mud: Wtr JUN 2 8 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7622/93/32/172. Drilling. Dev: 1-1/4° @ 7413' and 3/4° @ 7592'. Tripped for new bits @ 7509 and 7592.
Mud: Wtr JUN 2 9 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

8147/93/33/525. Drilling.
Mud: Wtr JUN 3 0 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7/1: 8465/93/34/318. Drilling. Dev: 2-3/4° @ 8348. Washed to btm following trip w/new bit @ 8348.
Mud: Wtr
7/2: 9024/93/35/559. Drilling. Dev: 2-3/4° @ 8348'.
Mud: Wtr
7/3: 9173/93/36/149. Tripping out for new bit. Dev: 1¼° @ 9024'. Tested BOP stack, pipe rams and lines to 5000 psi and Hydril to 3500 psi. Reamed 100'.
Mud: (gradient .433) JUL 3 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

7/4: 9537/93/37/364. Tripping for new bit. Reamed hole 1 hr.
Mud: (gradient .433)
7/5: 9900/93/38/363. Drilling. Reamed 90' in 2 hrs.
Mud: (gradient .433) JUL 5 1972

Shell-Duncan-Tew 1-9B5
(D) Parker #117
15,400' Wasatch Test
9-5/8" csg @ 5841'

10,028/93/39/128. Going in hole w/RTTS tool. Dev: 2-3/4° @ 10,020'. Tripped out w/bit and ran RTTS tool to 5500' and attempted to test 9-5/8" csg to 2000 psi. Test would not hold. Found hole in 9-5/8" csg @ 1565'. Set E-Z drill BP @ 5500'. Started in hole w/RTTS tool to sqz.
Mud: (gradient .433) JUL 6 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
9-5/8" csg @ 5841'

5/13: (RRD 5/8/72) RU Dowell. Pumped 300 sx Class "G" cmt w/3% $CaCl_2$ down 13-3/8" x 9-5/8" annulus. Shut opposite valve and applied 200 psi press. Flushed out valves w/wtr. Annulus stood full. RDUFA. MAY 15 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
9-5/8" csg @ 5841'

(RRD 5/15/72)
6/18: TD 5900. FC @ 5760. Testing BOP stack. MI&RU, raising derrick @ 7:00 PM 6/16. Nippled up BOP stack 6:00 PM 6/17. Changed kill line and tested to 5000 psi.
6/19: 5950/93/22/50. Drilling. Drld FC, cmt and shoe. Tested pipe rams, kill lines, chk lines, kelly and safety valves and inside BOP's to 5000 psi, Hydril to 3500 psi and csg to 3000 psi.
Mud: (gradient .433) JUN 19 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

6200/93/23/250. Drilling. Washed and reamed to btm.
Mud: (gradient .433) JUN 20 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

6372/93/24/172. Lost circulation. Lost returns while drlg. Mixed LCM. Ran 3 sleeve type stabs in DP thru dog-leg.
Mud: (gradient .433) JUN 21 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

6372/93/25/0. Going in hole. Mixed LCM and regained circ. Pipe stuck @ 6:30 AM. Sptd gel while working pipe, then sptd 50 bbls diesel oil. Ran Dia-log free-point, finding pipe stuck @ 5950. Backed off DC's @ 5922' (WLM). Rec 2 DC's. Ran jars, finding fish had dropped to btm. Jarred on fish and pulled free. Laid down fish and fishing string. JUN 22 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

6372/93/26/0. Going in hole. Pmpd in 500 bbls wtr - could not fill hole. Hung DP @ 6370 and pmpd in 400 cu ft 4% gel slurry and regained partial circ after cmt cleared DP. Moved rotary table to align w/hole. Checked wear bushing. JUN 23 1972

Shell-Duncan-Tew 1-9B5
(D) Parker
15,400' Wasatch Test
9-5/8" csg @ 5841'

6/24: 6372/93/27.0. CO cmt. Tripped out w/plugged bit. CO cmt from 5752-6372 w/full circ.
Mud: Wtr
6/25: 6655/93/28/283. Drilling. Lost circ while drlg @ 6424 - regained w/LCM. Tripped for new bit @ 6438'. Lost circ while drlg @ 6525 - regained w/LCM slug.
Mud: Wtr
6/26: 7170/93/29/515. Drilling. JUN 26 1972
Mud: Wtr

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

4/29: 4218/93/14/536. Tripping for new bit. (30' of fill). Dev: 1° @ 3828', 1¼° @ 3987 and 1½° @ 4145'. Lost circ getting worse. Pumping air @ 1400 cu ft/min, 135 cu ft/bbl.
Mud: 8.4 x 27
4/30: 4484/93/15/266. Drilling. Tripped in hole w/ bit #12. Started drlg w/no returns. Pulled 11 stds. Mixed and spotted LCM pill. Now drlg w/returns.
Mud: 8.5 x 30
5/1: 4654/93/16/170. Drilling. Tripped for new bit @ 4506'. Dev: 1° 15' @ 4490'. MAY 1 1972
Mud: Lime wtr.

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

4856/93/17/202. Drilling. Dev: 1° @ 4720'.
Mud: Lime wtr MAY 2 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

5256/93/18/400. Drilling. MAY 3 1972
Mud: Lime wtr.

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

5620/93/19/364. Drilling. MAY 4 1972
Mud: 8.4 x 23

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

5900/93/20/280. Tripping for monel. Circ hole prior to tripping. MAY 5 1972
Mud: 8.4 x 26

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
9-5/8" csg @ 5841'

5/6: 5900/93/21/0. Running csg. Made SLM: 5900 = 5898. Laid down roller reamer and picked up monel. Bridges @ 5785 - 5' fill. Circ hole. Pulled multi-shot and monel. Circ @ 3000, 4426 and TD. Sptd 100 bbls 35 visc mud. Laid down DP and DC's, pulled wear bushing and started running csg.
Mud: 8.5 x 35
5/7: TD 5900. Ran and cmtd 143 jts (5846') 9-5/8" K-55 and N-80 S&LT&C 40# csg to 5841 w/250 sx 1:1 poz-mix w/2% gel, followed by 400 sx Class "G" retarded cmt. CIP @ 11:45 AM. While running csg, hit bridge @ 5786. Washed down to 5841'. Bumped plug w/2000 psi, float held OK. WOC. Nipped down BOP's, set slips and cut csg. Installed AP spool and tested. RU Welex and ran temp surveys @ 4500 and 5800'. RU Dowell. Cmtd annulus w/300 sx Class "G" w/3% CaCl2. Top of cmt @ 5302. Released rig @ 3:30 AM 5/7/72. RDUFA. MAY 8 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

4/22: 1750/93/7/600. Drilling. Dev: 1¼° @ 1465'. Dropped string reamer from BHA. Washed 30' to btm - no returns. Reamed 45' to btm. Pumping air @ 1100 cu ft/min and 105 cu ft/bbl.
Mud: Aerated lime wtr.
4/23: 2000/93/8/250. Drilling. Dev: 6½° @ 1865', 6° @ 1910'. Laid down 9 jts DP and near bit stab. Picked up string stab and laid down 2 jts DP. Reamed 325' to btm.
Mud: 8.4 x 27 APR 2 4 1972
4/24: 2435/93/9/435. Tripping for new bit. Dev: 6° @ 1990 and 2055, 5° @ 2150, 4¼° @ 2245 and 3½° @ 2340. Tripping for bit - moving stab 90' above bit.
Mud: 8.4 x 24

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

2855/93/10/420. Taking surveys. Finished tripping for new bit, washed and reamed 55' to btm. Dev: 3-1/2° @ 2436', 2-3/4° @ 2530', 2° @ 2658 and 2-1/4° @ 2753. Pumping air @ 1100 cu ft/min, 105 cu ft/bbl fluid.
Mud: 8.4 x 27 APR 2 5 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

3155/93/11/300. Drilling. Dev: 2° @ 2848', 1-3/4° @ 2975 and 1-1/2° @ 3100'. Tripped for new bit. Reamed 45' to btm - tight hole @ 1506'. Drld 1¼ hrs w/no returns - put on 3rd compressor. Pumping air @ 1400 cu ft/min, 135± cu ft/bbl. Losing avg rate of 6300± bbls wtr/day. APR 2 6 1972
Mud: 8.4 x 27

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

3379/93/12/224. Tripping for new bit and BHA. Dev: 1-3/4° @ 3165', 1-1/4° @ 3263' and 1-3/4° @ 3326'. Laid down stabilizers. Picked up roller reamer. Magnafluxed DC, finding one bad DC and x-over. SI well and bled air bubble thru chk. Reamed 47' to btm. Pumping air @ 1400 cu ft/min, 135± cu ft/bbl. APR 2 7 1972
Mud: 8.4 x 27

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

3682/93/13/303. Tripping for new bit. Dev: 1½° @ 3358', 1¼° @ 3420', 1° @ 3482', 1¼° @ 3577' and 3672'. Finished tripping w/new bit and BHA. Washed 70' of fill. Pumping air @ 1400 cu ft/min, 135± cu ft/bbl.
Mud: 8.4 x 27 APR 2 8 1972

NEW OIL WELL — ALTAMONT

SHELL OIL COMPANY-DUNCAN-	LEASE TEW	WELL NO.	1-9B5
	DIVISION ROCKY MOUNTAI	ELEV	7073 KB
FROM: 4-17 - 10-23-72	COUNTY DUCHESNE	STATE	UTAH

NOV 0 3 1972

UTAH

ALTAMONT

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test

4/16: "FR" 25/93/1/25. MIRT.
Located 2334' FNL and 1201' FEL (SE/4 NE/4), Section 9-T2S-R5W, Duchesne County, Utah
Elev: 7047 GL (Ungraded)
15,400' Wasatch Test
Shell Working Interest: 99.2%
Drilling Contractor: Signal Drilling Co.
This continues development of the Wasatch in the western part of the Altamont field.
Spudded well 12 midnight 4/15/72. APR 1 7 1972
4/17: 43/93/2/18. Drilling. Reamed 9 hrs to straighten hole.

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test

314/93/3/271. Drilling. Dev: 1° @ 120'. Changed bit @ 139'. APR 1 8 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

352/93/4/38. Nippling up BOP's. Dev: 1° @ 285'. Ran and cmtd 9 jts (356') 13-3/8" 68# K-55 ST&C R-3 csg w/550 sx Class "G" cmt w/3% $CaCl_2$. Set csg @ 351'. No cmt returns. WOC. Ran 1" tbg to 20' (top of cmt) and cmtd w/150 sx Class "G" w/3% $CaCl_2$ w/returns. CIP 6:45 PM 4/18. Installed WH and started nippling up BOP's. APR 1 9 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

575/93/5/223. Tripping out of hole. Nippled up air eqmt and tripped in hole w/bit to top of cmt @ 310'. Press tested csg to 1000 psi. Drld cmt. While drlg @ 430', lost returns. Tripped out of hole and picked up near bit and one string stab. Reamed 86' to btm w/aerated wtr. Drld w/air to 575' when booster compressor blew up. Lost circ and stuck drill string. Freed drill string @ 7:40 AM 4/20. APR 2 0 1972

Shell-Duncan-Tew 1-9B5
(D) Signal
15,400' Wasatch Test
13-3/8" csg @ 351'

1150/93/6/575. Drilling. Dev: 3/4° @ 825'. Repaired booster. Drld cmt out of mousehole. Tripped for new bit. (1100 cu ft air/min, 100 cu ft air/bbl)
Mud: Aerated lime wtr APR 2 1 1972

RM-51 (8-71)

PRIVATE & CONFIDENTIAL

DRILLING WELL PROGNOSIS

WELL NAME Shell-Duncan-Tew 1-9B5
TYPE WELL Development
FIELD/AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) NE/4 Section 9, T2S, R5W Duchesne County, Utah

EST. G. L. ELEVATION 7,050 PROJECTED TD 15,400 OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
		Min. 30' of 20"	conductor		SAMPLES:
17½	13 3/8"		1/2°	300' or 50'	30' sfc-9,000' 10' 9,000'-TD
		BHC-Sonic GR-Cal (thru csg)		Thru any existing boulder section TGR-1 5470 (+1600)	CORES: None
12¼"	9 5/8"		3°	5900	DST'S:
	(to sfc) SFJ-P	BHC-Sonic GR-Cal DIL-SP CNL (or CNL-FDC) 9000	Angle Buildup not to exceed 1°/1000' but less than max. indicated	TGR-3 10,070 (-3000) Wasatch 11,670 (-4600) Top Red Beds 11,970 (-4900)	None DEVIATION CONTROL Dogleg severity not to exceed 1½°/100' interval CEMENT See "csg and cementing" prognoses
8 3/4	7 5/8"		6°	12,700'	MUD
	5" or 5½"	BHC-Sonic GR-Cal DIL-SP CNL-GR or CNL-FDC 2 man mud logging unit		Base Red Beds 13,220 (-6150) Wasatch Lake 14,570 (-7500) Lower Wasatch 15,070 (-8000)	See "mud program" for details Tentative: Drilling well prognosis. To be updated prior to drilling well. JRS
6½"	Liner		10°	TD 15,400'	

JRS ORIGINATOR: DES DATE 3/30/72

FAW ENGINEERING APPROVAL:

PETROLEUM: DWS 4/10/72

OPERATIONS: JCH

OPERATIONS APPROVAL:

VFF

DIV. DRILLING SUPT.

RM-51 (8-71)

PRIVATE & CONFIDENTIAL

DRILLING WELL PROGNOSIS

WELL NAME Shell-Duncan-Tew 1-9B5

TYPE WELL Development

FIELD/AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) NE/4 Section 9, T2S, R5W Duchesne County, Utah

EST. G. L. ELEVATION 7,050 PROJECTED TD 15,400 OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
		Min. 30' of 20" conductor			SAMPLES:
17¼	13 3/8"		1/2°	300' or 50'	30' sfc-9,000' 10' 9,000'-TD
		BHC-Sonic GR-Cal (thru csg)		Thru any existing boulder section	CORES:
				TGR-1 5470 (+1600)	None
12¼"	9 5/8"		3°	5900	DST'S:
		BHC-Sonic GR-Cal DIL-SP CNL (or CNL-FDC) 9000 Angle Buildup not to exceed 1°/1000' but less than max. indicated		TGR-3 10,070 (-3000)	None DEVIATION CONTROL Dogleg severity not to exceed 1½°/ 100' interval
				Wasatch 11,670 (-4600)	CEMENT
	(to sfc) SFJ-P			Top Red Beds 11,970 (-4900)	See "csg and cementing" prognoses
8 3/4	7 5/8"		6°	12,700'	MUD
		BHC-Sonic GR-Cal DIL-SP CNL-GR or CNL-FDC 2 man mud logging unit		Base Red Beds 13,220 (-6150)	See "mud program" for details
				Wasatch Lake 14,570 (-7500)	
				Lower Wasatch 15,070 (-8000)	
	5" or 5½"				Tentative: Drilling well prognosis. To be updated prior to drilling well.
6½"	Liner		10°	TD 15,400'	JRS

JRS ORIGINATOR: DES DATE 3/30/72

FAW ENGINEERING APPROVAL:

PETROLEUM: DWS 4/10/72

OPERATIONS: JCH

OPERATIONS APPROVAL:

VFF

DIV. DRILLING SUPT.

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL and 1201' FEL Section 9

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 9-T2S-R5W

14. PERMIT NO.: 43-013-30121

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047 GL, 7073 KB

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☒	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)	☐			(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

As per attached prognosis

cc: USGS, Salt Lake City, Utah - w/attachment (for information)

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE 10-17-74

BY

18. I hereby certify that the foregoing is true and correct

SIGNED T. S. Knight TITLE Division Operations Engr. DATE 10/15/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Walter Duncan

*See Instructions on Reverse Side

REPERFORATION AND STIMULATION PROGNOSIS
DUNCAN TEW 1-9B5
DUCHESNE COUNTY, UTAH

PERTINENT DATA:

ELEV: 7047' GL
KB-GL: 26'
PBTD: 15,150'

SHELL'S W.I.: 99.2%
AFE: 577167

PRESENT STATUS:

Last test on 9/10/74 well flowed 367 BO + 31 BW + 350 MCF gas with a 350 psi FTP. Well is perforated at the following depths (depths refer to CNL/FDC dated 9/7/72):

13,156	13,389	13,569	13,768	14,250	14,870
13,219	13,401	13,618	13,840	14,442	14,930
13,233	13,415	13,630	14,030	14,572	14,955
13,296	13,432	13,643	14,056	14,693	14,987
13,310	13,444	13,685	14,137	14,725	15,002
13,354	13,497	13,705	14,150	14,784	15,032
13,368	13,522	13,722	14,191	14,849	15,127
13,375	13,560	13,738	14,240	14,859	

Total of 47 perforations.

PROPOSED WORK:

Check for scale, cleanout if necessary, reperforate existing zones to a shot density of one hole per foot of pay and stimulate with 30,450 gal 15% HCl.

PROCEDURE:

1. Change out 5,000# tree to 10,000# tree.

2. Cut wax. Pull collar stops. Run sinker bars to 15,127+'.

3. Pump 2500 gal 15% HCl containing the following additives per 1000 gal: 3 gal G-10, 3 gal C-15, 3 gal J-22, 30# OS-160 Wide Range Unibeads, 30# OS-160 Button Unibeads. Disperse 50, 7/8" RCN ball sealers (SG 1.24) evenly throughout the acid. Flush with 4000 gal clean produced water or fresh water w/2% NaCl containing 3 Gal G-10 per 1000 gal.

4. Run sinker bars w/guage ring to 15,127+'.

5. Perforate one hole at each of the following depths (depths refer to CNL dated 9/7/72):

13,376	13,528	13,690	14,031	14,248	14,726	14,988
13,377	13,529	13,691	14,054	14,249	14,727	15,003
13,394	13,554	13,692	14,055	14,251	14,783	15,031
13,395	13,565	13,693	14,136	14,252	14,848	15,126
13,396	13,624	13,694	14,138	14,441	14,850	15,128
13,421	13,625	13,706	14,139	14,443	14,857	
13,422	13,635	13,721	14,148	14,571	14,858	
13,438	13,636	13,723	14,149	14,692	14,869	
13,439	13,637	13,736	14,151	14,694	14,928	
13,450	13,647	13,737	14,152	14,695	14,929	
13,451	13,648	13,767	14,153	14,696	14,931	
13,502	13,649	13,769	14,154	14,721	14,932	
13,503	13,650	13,839	14,155	14,722	14,933	
13,526	13,651	13,841	14,190	14,723	14,934	
13,527	13,689	14,029	14,239	14,724	14,954	

total of 95 additional perforations.

Note: a. Perforate unidirectionally with a 2" steel, hollow carrier gun; decentralize with magnets at top, middle and bottom of gun assembly. Use Harrison "RT" or Schlumberger Hyperjet 6.2 gram charges.

b. Note and record pressure changes <u>during</u> and <u>after</u> perforating.

6. Flow at maximum possible rate (record wellhead pressure and estimated rate, i.e., on 1" choke).

7. Acid treat gross perforated interval 13,156' to 15,128' with 30,450 gal (725 bbls) of 15% HCl acid as follows:

a. Pump 5 bbls 15% HCl acid.

b. Drop two 7/8" RCN ball sealers (S.G. 1.24) then pump 5 barrels 15% HCl acid.

c. Repeat Step (b) 141 additional times for a total of 705 barrels and 282 ball sealers.

d. Pump an additional 10 barrels without unibeads.

e. Flush with 5960 gal (± 142 Bbls) of fresh water containing 1245 lb. NaCl and 3 Gal C-10 per 1000 Gal (13% NaCl by weight).

Note: 1) All acid except last 10 barrels (refer to Step 3(d) to contain the following additives per 1000 gal: 3 Gal C-10, 3 Gal C-15, 3 Gal J-22, 30# OS-160 Wide range Unibeads, 30# OS-160 Button Unibeads.

2) Heat all fluids to 80°F.

3) Place and hold 3500 psi on tbg - CSG Annulus.

4) "Balling-out" at maximum allowable surface pressure is desirable, therefore; if "ballout" occurs before all acid is injected into the formation, hold 10,000 psi wellhead pressure for at least 3 minutes before bleeding back. Backflow briefly, then recommence injecting remainder of acid and ball sealers. If subsequent "ball-out" occurs, repeat the preceding sequence. Do not cut out balls from acid until several complete "ball-outs" have Occurred.

5) Record (instantaneous) shut-down pressure and decline overnight with continuous pressure recorder.

8. Open well and clean-up at maximum rate of 1" choke if possible; record flowing pressures and any shut-in pressures. Keep record of load and ball sealer recovery.

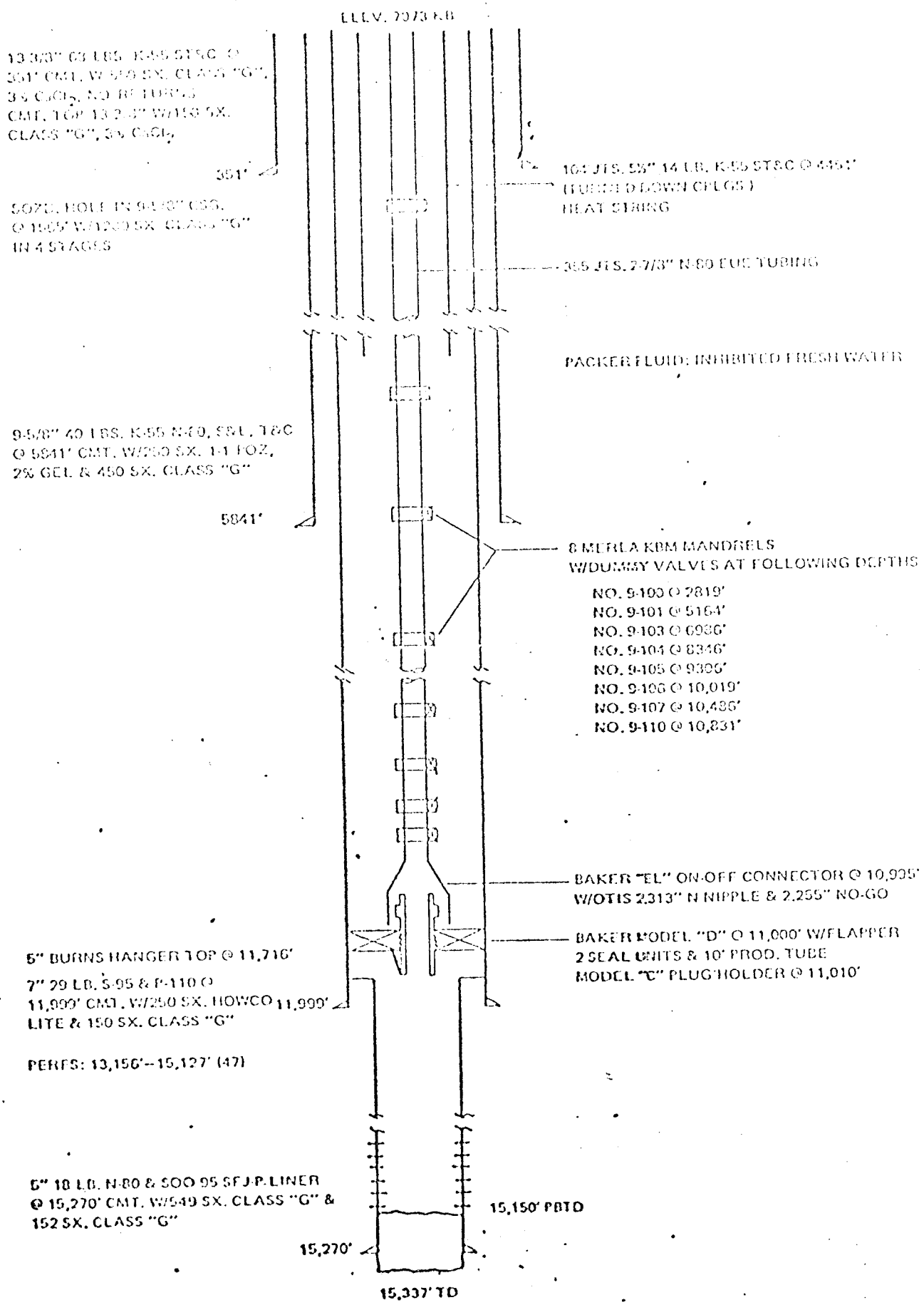
9. Put well on production.

B. L. Faulk

RIH:sy
10/3/74

DIV. O.E. J.S. Mize

DUNCAN FEW 1 935



Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL and 1201' FEL Section 9

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 9-T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30121

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047 GL, 7073 KB

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]				

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

As per attached report

18. I hereby certify that the foregoing is true and correct

SIGNED T. S. Maze TITLE Division Operations Engr. DATE 12/12/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS - Salt Lake City w/attachment (for information)

cc: Walter Duncan

*See Instructions on Reverse Side

REPERFORATE AND ACID TREAT
SHELL OIL COMPANY

10/21/74 - 11/27/74

LEASE	TEW	WELL NO.	1-9B5
DIVISION	WESTERN	ELEV	7073 KB
COUNTY	DUCHESNE	STATE	UTAH
LOCATION	SW4 NE4 SECTION 9-T2S-R3W		

ALTAMONT

UTAH
ALTAMONT

Shell-Duncan-Tew 1-9B5
(Reperf and AT)

10/19: "FR" TD 15,337. PB 15,150. Prep to flow AFE #517167 provides funds to reperforate and AT. Checked plug back. RU BJ and acid treated gross perfs 13,156 to 15,127 w/2500 gal 15% HCl. Each 1000 gal contained 3 gal G-10, 3 gal C-15, 3 gal J-22, 30# OS-160 wide range, 30# OS-160 button Unibeads. Distributed 50 7/8 RCN ball sealers evenly in acid. Flushed 2/4000 gal produced water. Each 1000 gal contained 3 gal G-10. Max press 4000 psi, average 3000 psi, minimum 2800 psi. Max bbls/min 11, average 11, minimum 8-1/2. Instant SIP 1200 to vacuum in 30 sec.
10/20: TD 15,337. PB 15,150. Prep to flow.

OCT 2 1 1974

Shell-Duncan-Tew 1-9B5
(Reperf and AT)

TD 15,337. PB 15,150. No report.

OCT 22 1974

Shell-Duncan-Tew 1-9B5
(Reperf & AT)

TD 15,337. PB 15,150. Prep to AT. RU OWP and perf'd as per prog. On Run No. 1 perf'd as follows: 15,128, 15,126, 15,031, 15,003, 14,988, 14,954, 14,934, 14,933, 14,932, 14,931, 14,929, 14,928, 14,869, 14,858, 14,857, 14,850, 14,848, 14,783, 14,727, 14,726, 14,724, 14,723, 14,722, 14,721, 14,696, 14,695, 14,694, 14,692, 14,571, 14,443, 14,441, 14,252, 14,251, 14,249, 14,248, 14,239, 14,190, 14,155, press 275-300 psi. On Run No. 2 perf'd as follows: 14,154, 14,153, 14,152, 14,151, 14,149, 14,148, 14,139, 14,138, 14,136, 14,055, 14,054, 14,031, 14,029, 13,841, 13,839, 13,769, 13,767, 13,737, 13,736, 13,723, 13,721, 13,706, 13,694, 13,693, 13,692, 13,691, 13,690, 13,689, 13,651, 13,650, 13,649, 13,648, 13,647, 13,637, 13,636, 13,635, 13,625, 13,624, press 650-675 psi. On Run No. 3 perf'd 13,565, 13,564, 13,529, 13,528, 13,527, 13,526, 13,503, 13,502, 13,451, 13,450, 13,439, 13,438, 13,422, 13,421, 13,396, 13,395, 13,394, 13,377, 13,376, press 600-680 psi.

OCT 23 1974

Shell-Duncan-Tew 1-9B5
(Reperf & AT)

TD 15,337. PB 15,150. Changing 10,000# x-mas tree to 5,000#. Prep to flow. MI&RU B-J. Tbg press 800 psi. Acid treated gross perfs from 13,156-15,128 w/ 30,450 gal 15% HCl. Each 1000 gal contained the following: 3 gal G-10, 3 gal C-15, 3 gal J-22, 30# OS-160 wide range, 30# OS-160 button Unibeads (last 10 bbls did not contain Unibeads). Flushed w/5960 gal lease produced water. Each 1000 gal contained 3 gal G-10 and 1245# NaCl. Pumped treatment as follows: pumped 5 bbls acid, dropped 2 7/8 RCN ball sealers, 1.24 gr., pumped 5 bbls acid, repeated 2 ball sealers and 5 bbl acid 141 times. Pumped 10 bbl acid followed by flush. Max press 10,000 psi, avg press 6,000 psi, minimum press 3,100 psi. Max rate 12 BPM, avg rate 8 BPM, minimum rate 2-1/2 BPM. Instant SI press 5100-4700 psi in 5 min, to 3500 psi in 10 min, to 1700 psi in 15 min, to 1200 psi in 20 min, to 1100 psi in 25 min. Several breaks from 100 psi to 3500 psi.

OCT 24 1974

Shell-Duncan Tew 1-9B5
(Reperf & AT)

TD 15,337. PB 15,150. Flowing. Tbg press 300 psi. Opened to pit, flowed 1 hr on 1" chk, estimated 10 BO, 75 BW, tbg press 240 psi. SI 5 min, tbg press 1200 psi, 15 min 1620 psi.

OCT 25

Shell-Duncan Tew 1-9B5
(Reperf & AT)

TD 15,337. PB 15,150. Flowing. On various tests, flowed as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	Chk	FTP
10/26	20	436	46	629	12/64"	1700
10/27	24	1436	736	1175	30/64"	800
10/28	18	987	651	897	12/64"	1300

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 544 BO, 13 BW and 480 MCF gas through 13/64" chk w/ 1400 psi FTP.

OCT 29 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 663 BO, 133 BW and 626 MCF gas through 16/64" chk w/1000 psi FTP.

OCT 30 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 480 BO, 245 BW and 476 MCF gas through 22/64" chk w/1000 psi FTP.

OCT 31 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 539 BO, 620 BW and 612 MCF gas through 26/64" chk w/600 psi FTP.

NOV 1 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On various tests, well flwd as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	Chk	FTP
11/2	24	512	804	578	26/64"	600
11/3	24	593	623	135	26/64"	700
11/4	5	114	115	107	21/64"	1000

NOV 4 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 216 BO, 104 BW and 572 MCF gas through 21/64" chk w/ 600 psi FTP.

NOV 5 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 450 BO, 456 BW and 579 MCF gas through 26/64" chk w/600 psi FTP.

NOV 6 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 412 BO, 36 BW and 571 MCF gas through 26/64" chk w/500 psi FTP.

NOV 7 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 425 BO, 108 BW and 572 MCF gas through 26/64" chk w/ 500 psi FTP.

NOV 8 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr tests, well flwd as follows:

Rpt Date	BO	BW	MCF Gas	Chk	FTP
11/9	469	640	413	24/64"	600
11/10	516	409	515	26/64"	500
11/11	753	0	492	26/64"	500

NOV 11 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. SI, no production past 24 hrs. (Reports discontinued until well producing.)

NOV 12 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. (RRD 11/12/74). Flowing. On various tests, flwd as follows:

Rpt Date	Hrs	BO	BW	MCF Gas	Chk	FTP
11/15	21	700	*	630	20/64"	1200
11/16	24	591	*	689	20/64"	1300
11/17	24	720	*	620	20/64"	1200
11/18	24	721	*	562	20/64"	1300
11/19	24	623	*	521	20/64"	1300
11/20	24	755	1*	559	20/64"	1100

*Meter broken

NOV 20 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 613 BO, 12 BW and 452 MCF gas through 20/64" chk w/ 1100 psi FTP.

NOV 21 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 598 BO, 189 BW and 465 MCF gas through 20/64" chk w/1100 psi FTP.

NOV 22 1974

Shell-Duncan-Tew 1-9B5 (RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr tests, flwd as follows:

Rpt Date	BO	BW	MCF Gas	Chk	FTP
11/23	698	223	537	20/64"	1100
11/24	639	169	506	20/64"	1000
11/25	382	77	333	12/64"	1200

NOV 25 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. Flowing. On 24-hr test, flwd 367 BO, 35 BW and 320 MCF gas through 12/64" chk w/1200 psi FTP. (Reports discontinued until test established.)

NOV 26 1974

Shell-Duncan-Tew 1-9B5
(RP&AT)

TD 15,337. PB 15,150. REPERFORATION AND ACID TREATMENT COMPLETE. On 24-hr test 9/5/74, prior to work, flwd 396 BO, 360 BW and 431 MCF gas through 20/64" chk w/500 psi FTP from Wasatch perfs 13,156-15,127 (47 perfs). On 24-hr test 11/21/74, after work, flwd 598 BO, 189 BW and 465 MCF gas through 20/64" chk w/1100 psi FTP from Wasatch perfs 13,156-15,128 (142 perfs). FINAL REPORT.

NOV 27 1974

Form OGC-1b

SUBMIT TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2334' FNL & 1201' FEL Section 9

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7073 KB

5. LEASE DESIGNATION AND SERIAL NO.
Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tew

9. WELL NO.
1-9B5

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 Section 9-T2S-R5W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING & ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

See attachment

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: May 2, 1977
BY: P. L. Driscoll

18. I hereby certify that the foregoing is true and correct

SIGNED L. Plawley TITLE Div. Opers. Engr. DATE 4/25/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment

*See Instructions on Reverse Side

RECOMPLETE
SHELL-DUNCAN

FROM: 1/5 - 4/22/77

LEASE	TEW	WELL NO.	1-9B5
DIVISION	WESTERN	ELEV	7073 KB
COUNTY	DUCHESNE	STATE	UTAH

ALTAMONT

UTAH

ALTAMONT

Shell-Duncan-Tew 1-9B5 (Recomp)

"FR" TD 15,337. PB 15,150. AFE #526537 provides funds to recomp in the Upper Transition. Well currently prod'g 9 BO, 186 BW, 496 MCF gas on 64/64" chk w/150 psi FTP in 24 hrs. MI&RU WOW #19. Filled hole w/prod wtr & SD for night. JAN 05 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 15,150. Unlatched from pkr. Circ'd 600 BW w/o returns. Prep to pull 5-1/2 heat string. SD for night. JAN 06 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 15,150. RU csg crew & pulled 104 jts 5-1/2 heat string. RD&MO csg crew. RIH w/pkr picker & tag'd pkr. SD for night. JAN 07 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

JAN 10 1977

TD 15,337. PB 15,150. 1/7 Milled on pkr; fell thru. Pulled up 2 jts & pkr stuck in csg; unable to pull up on tbg. Was unable to get returns; pmp'd 700 BW when mill'g. 1/8 Milled on pkr 5 hrs; fell thru. Pulled tbg & pkr picker. Still unable to get fluid returns when mill'g. SI well.

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 15,150. RIH w/mill 2 jts below 7" csg scraper. Tag'd liner top w/csg scraper. POOH w/1000' 2-7/8 tbg, scraper & 4-1/8 mill. SD for night. JAN 11 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 15,150. MI&RU OWP. Set 7" CIBP @ 11,698. Set 7" Model D pkr w/flapper @ 10,050. RD&MO OWP. Ran seal assembly w/10' prod tube w/+45 SN above seal assembly & ran prod equip w/mandrels w/dummies in place. Drop'd SV & unable to get it to btm. SI for night. JAN 12 1977

Shell-Duncan-Tew 1-9B5 (Recomp) JAN 13 1977

TD 15,337. PB 15,150. SV hanging up in mandrels; unable to shear off. Tried 3 times w/o success. SD for night.

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 15,150. MI&RU WL trk. RIH; 1-7/8" KO blk hung up in tbg @ 10,070; unable to pull up. Ran down to 11,000. Pulled up to 10,070; hung up. Jar'd several times & tools came loose. RIH w/impress blk & tag'd something @ 10,070. Pushed out end of tbg & set down @ 11,525. POOH. Unable to tell what's in hole from blk. RIH; SV set down in seat'g nip. Sheared off & SD for night. JAN 14 1977

Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. 1/14 Released tbg from pkr & press'd tbg to 7500# for 30 mins, ok. Pulled SV. Filled csg w/inh'd wtr. Pmp'd 47 bbls acetic acid foll'd by 5 bbls diesel. Latched into pkr & pmp'd 5 more bbls diesel. Removed BOP's & installed 10,000# frac tree. SI well. JAN 17 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. RD&MO WOW rig. Prep to perf; well SI. JAN 18 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. MI&RU OWP. On Run #1 perf'd 11,692-11,319 (34 holes), Run #2 11,312-10,915 (34 holes), Run #3 10,911-10,425 (34 holes) & Run #4 10,414-10,121 (22 holes). Perf'd total of 124 holes. Press remained 0 on all 4 runs. Prep to AT. JAN 19 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. MI&RU Dowell to AT perfs 11,692-10,121. Pmp'd 545 bbls 15% HCl acid foll'd by 120 bbls prod wtr as per prog. Max rate 20 B/M, min 10, avg 14. Max press 7600 psi, min 3300, avg 4550. ISIP 1800 psi, 5 mins 1000, 10 mins 600, 15 mins 500, 2 hrs 0. Held 3000 psi on csg. RD&MO Dowell. MI&RU OWP & ran RA log from 11,698-9000; indicated 90% perfs trt'd. RD&MO OWP. Left well SI. Prep to flw back. JAN 20 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. Well had 0 press & would not flw. Turned over to prod to install gas lift valves. JAN 21 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. 1/21 MI&RU Otis WL trk. Set live valves @ 9997', 9500', 9003', 8506', 7732', 6557', 4891' & 2701'. RD&MO Otis. SITP 0. 1/22 Installed 5000# tree & connected to gas lift. Turned well over to prod. 1/23 Flwd well to pit to clean up; flw'g wtr w/little oil. Turned well thru trtr & made est 500 BW & 0 BO in 12 hrs. JAN 24 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. Flwd well to pit & prod all wtr. Turned well to bty & prod 750 BW & 0 BO overnight. SI well. JAN 25 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. On 24-hr test, prod 2 BO, 800 BW, 410 MCF gas w/0 psi. JAN 26 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI. JAN 27 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. MI&RU Geotex to determine entry pts in well. Found approx 1600 BW/D rate on 45/64" chk. Determined fluid entry pts by spinner survey only as RA material from AT was still too hot to get accurate tracer log. Well is making 100% wtr & velocity entry pts are: 11,124-11,131 - 25%; 11,147-11,170 - 59%; 11,227 - 7%; 11,237 - 3% & 11,354-11,369 - 6% for a total of 100%. Temp of fluid @ sfc 92 deg F. JAN 28 1977

Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. No re, rt.	JAN 31 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 01 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 02 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 03 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 04 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 07 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 08 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 09 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 10 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 11 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 14 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI.	FEB 15 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI	FEB 16 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. SI. (Report discontinued until further activity)	FEB 17 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. (RRD 2/17/77) CIBP @ 11,698. Currently well SI. Prod 100% wtr from 11,124-11,369 perfs. AFE #423497 provides funds to pull tbg, pull Model D pkr @ 10,050, sqz Green River perfs 11,124-11,692, put back on prod & test 10,121-11,030 perfs for inflow. MI&RU WOW #19.	MAR 16 1977

Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. Prep to mill out Mdl D pkr @ 10,050. Pmp'd 50 bbls prod wtr down csg-tbg annulus. Installed BPV, removed tree, installed BOPE, unstung from Mdl D & LD 1 jt. Pmp'd 600 bbls prod wtr down annulus & killed well. Did not est circ. Pulled prod equip. RIH w/6" OD mill & Bkr pkr picker. MAR 17 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. Prep to cmt sqz perfs 11,124 to 11,692. Ran mill & pkr picker to 10,050 & milled out Mdl D pkr while pmp'g 2 B/M prod wtr down tbg-csg annulus. Pmp'd 700 bbls prod wtr & est circ. Ran mill w/Mdl D & pkr picker to 11,134. Started POOH. MAR 18 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. 3/18 Pulled Mdl D pkr & pkr picker. RU OWP. Ran 7" Bkr cmt ret on WL & set @ 11,040. RD OWP. Ran cmt ret stinger on tbg & stung into ret. Hal pmp'd 5 bbls prod wtr down tbg & press'd to 5000 psi; tbg plug'd. Unstung from cmt ret & reverse circ'd to clear tbg; tbg unplug'd. Stung back into ret. Est 4 B/M rate w/prod wtr. Pmp'd 20 bbls prod wtr @ 1/2 B/M down tbg-csg annulus to maintain 200 psi on annulus during cmt job. Pmp'd 5 bbls frh wtr foll'd by 40.96 bbls "G" cmt containing 8% Halad 9 & .3% HR4 mixed @ 15.8# per gal. Displ'd tbg w/65 bbls prod wtr. Max press during entire job was 1500 psi; press @ end of job 1450 psi. SIPP drop'd to 0 on tbg. Final annulus press 200 psi. Bled off annulus & unstung from ret. Reverse circ'd 65 bbls prod wtr. Circ'd out approx 2 bbls cmt. Total cmt pmp'd 200 sx, 190 sx below ret, 10 sx reversed out. 3/19 POOH w/tbg & stinger. Ran Bkr Mdl C full bore pkr on tbg & set @ 10,050 w/20,000# tension. Removed BOPE & installed tree. MAR 21 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. No report. MAR 22 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 15,150. On 24-hr test, prod 0 BO, 209 BW, 184 MCF gas w/1000 psi inj press. MAR 28 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 11,698 (CIBP). (WO #423497) Sqz perfs 11,124-11,692 & test perfs 10,121-11,030 for inflow. Couldn't gas lift well. Pmp'd 10 bbls methanol down csg. Chk'd tbg for wax plugs; unable to go below 650 w/WL. RU Nowsco & HOT to pmp diesel down CT & w/CT @ 2000', well started gas lift'g; quit @ 4000 & started @ 6000. Unable to inj any more gas @ 8000'. POOH w/CT. Backed well down w/40 bbls diesel. Inj press was 1250# @ 2000' & 1350# @ 6000'. MAR 24 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 11,698 (CIBP). Otis chn'g top GL valve set @ 1258# & tested rack press. Started well back on gas lift; prod'g to bty. MAR 25 1977
Shell-Duncan-Tew 1-9B5 (Recomp)	TD 15,337. PB 11,698 (CIBP). On 11-hr test, gas lifted 27 BO, 0 BW, 131 MCF gas w/1250 psi inj press. MAR 28 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 11,698 (CIBP). On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
3/25:	20	152	496	797	1120
3/26:	24	68	491	875	1120
3/27:	24	52	449	875	1120

MAR 2 9 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 66 BO, 502 BW, 1401 MCF gas w/1140 psi inj press. MAR 3 0 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 9 BO, 195 BW, 485 MCF gas w/1140 psi inj press. MAR 3 1 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 0 BO, 210 BW, 486 MCF gas w/1140 psi inj press. APR 0 1 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 15,337. PB 11,698 (CIBP). SI. APR 0 4 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
4/1:	SI				
4/2:	24	90	200	404	1200
4/3:	24	13	218	270	1160

APR 0 5 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). Prod'g; gauge not available. APR 0 6 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). 4/4 On 12-hr test, gas lifted 48 BO, 250 BW, 561 MCF gas w/1240 psi inj press. 4/5 On 24-hr test, gas lifted 1 BO, 548 BW, 901 MCF gas w/1160 psi inj press. APR 0 7 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
4/6	24	64	351	786	1160

APR 1 1 1977

Shell-Duncan-Tew 1-9B5 (Recomp) APR 1 2 1977

TD 14,337. PB 11,698 (CIBP). On 24-hr test 4/10, gas lifted 85 BO, 537 BW, 785 MCF gas w/1150 psi inj press.

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 55 BO, 670 BW, 1121 MCF gas w/1140 psi inj press. APR 1 3 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 46 BO, 571 BW, 841 MCF gas w/1120 psi inj press. APR 1 4 1977

Shell-Duncan-Tew 1-9B5 (Recomp)

TD 14,337. PB 11,698 (CIBP). On 4-hr test, gas lifted 14 BO, 168 BW, 200 MCF gas w/1120 psi inj press. APR 1 5 1977

Shell-Duncan-Tew 1-9B5
(Recomp)

TD 14,337. PB 11,698 (CIBP). SI. APR 1 8 1977

Shell-Duncan-Tew 1-9B5
(Recomp)

TD 14,337. PB 11,698 (CIBP). On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
4/15	18	0	20	266	1120
4/16	24	114	193	342	1120
4/17	24	1	297	513	1140

APR 1 9 1977

Shell-Duncan-Tew 1-9B5
(Recomp)

TD 14,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 60 BO, 444 BW, 1051 MCF gas w/1180 psi inj press. APR 2 0 1977

Shell-Duncan-Tew 1-9B5
(Recomp)

TD 14,337. PB 11,698 (CIBP). On 24-hr test, gas lifted 20 BO, 661 BW, 813 MCF gas w/1160 psi inj press. APR 2 1 1977

Shell-Duncan-Tew 1-9B5
(Recomp)

TD 14,337. PB 11,698 (CIBP). Before work, well prod 9 BO, 186 BW & 496 MCF gas on 1" chk w/150 psi TP in 24 hrs. On 24-hr test 4/20/77 after work, well gas lifted 10 BO, 326 BW, 351 MCF gas w/1120 psi inj press. APR 2 2 1977
FINAL REPORT

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL & 1201' FEL Section 9

5. LEASE: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 9-T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7073 KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other) Swb test & cmt sqz			[X]	(Other) Swb test & cmt sqz			[X]

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

See attachment

18. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE Div. Opers. Engr. DATE OCT 09 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment

*See Instructions on Reverse Side

SWB TEST & CMT SQZ — ALTAMONT

SHELL-DUNCAN — LEASE TEW — WELL NO. 1-9B5

FROM: 8/16/77 - 9/8/78 — DIVISION WESTERN — ELEV. 7073 KB

COUNTY DUCHESNE — STATE UTAH

UTAH
ALTAMONT

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

"FR" TD 15,337. PB 15,150. AFE #424697 provides funds to swb test (separate zones) 10,121-11,040 w/ret BP & pkr & cmt sqz zones as necessary to shut off wtr. MI&RU WOW #12.
AUG 16 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. Pmp'd 250 bbls prod wtr down csg & 75 bbls down tbg. Removed tree & installed & tested BOP's. Tbg on vac. Released pkr & PU 31 jts 2-7/8 @ run down w/pkr. Tag'd CICR. POOH & LD Camco mndrls. SI well.
AUG 17 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. Ran Bkr 7" ret BP & 7" full bore pkr & tag'd top of 7" cmt ret @ 11,040. Set ret BP @ 11,032 & pkr @ 10,999. RU to swb test perfs 11,006-11,023. FL 500'. Swb'd 16 BW; FL 8100. Started hit'g paraffin in tbg w/swb.
AUG 18 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. Pmp'd 50 bbls 190 deg F prod wtr down tbg to clear tbg of wax; tbg on vac. Swb'd 45 bbls in 3 hrs. FL 2600'; SF 3100. Could not get deeper due to wax. PU tbg & rev circ'd w/200 bbls hot prod wtr. Swb'd 58 BW in 4 hrs. FL 3600; SF 5900. Last 2 hrs wtr was very gassy. Net gain swb'd est @ 43 BW & no oil. SI well.
AUG 19 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

AUG 2? 1977

TD 15,337. PB 15,150. 36 hrs SITP. Made one swab run. FL @ 3500'. Rec 100% wtr. Released pkr. Released Ret BP. Re-set Ret BP @ 10,936'. Set pkr. BP would not test. Released pkr & Ret BP. Pulled up & re-set Ret BP @ 10,926'. Set pkr. Tested BP to 1000 psi, ok. Re-set pkr @ 10,540'. RU to swab 10,559'-10,919'. Swabbed 126 bbls fluid in 7 hrs. FL @ 5000. Swabbing from 5800'. Last run 5% oil, load 75 bbls, 51 bbls overload. SI

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. SITP 50 psi. FL @ 4400'. Swabbed 12 hrs. 337 bbls fluid (5% oil cut). F.L. while swabbing 5400-5600'. AUG 24 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. RIH w/Ret BP & pkr. SITP 60. Made one swab run. FL @ 600'. Filled tbg w/prod wtr. Released pkr. Released Ret BP. Ret BP dragging. Set BP @ 10,545', set pkr to test BP. Would not test. Pulled up 10' & reset, BP would not test. POOH. Picked up redressed BP & pkr. AUG 2 5 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)
AUG 2 6 1977

TD 15,337. PB 15,150. Prep to move Ret BP & pkr. RIH w/BP & pkr. Set BP @ 10,545'. Tested BP to 2000 psi, ok. Set pkr @ 10,085. Tested to 2000 psi after reverse circ 100 bbls hot prod wtr. Swabbed 104 bbls wtr (no oil), 30 bbls overload in 10 hrs. Last 2 hrs, 3 bbls hr wtr, FL @ 8400. Swabbing from 10,100'

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. No report AUG 2 9 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)
AUG 3 0 1977

TD 15,337. PB 15,150. 8/26: SITP 30 psi. Made one swab run. FL @ 3400'. Recov'd 5 bbls wtr. Released pkr. & BP. Reset BP @ 10,942'. Tested to 2000 psi, ok. POOH. 8/29: Picked up Baker Ret BP & Full Bore Pkr. RIH w/gas lift mandrels & valves in place. Worked 5 hrs, trying to set & test Ret BP, could not test.

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. Tried to retest BP @ 10,942; could not. Pulled pkr & ret BP above all perfs. Set both & ret BP tested. Ran back down & reset BP 9 times before it would test. Last set'g BP @ 10,872 & pkr @ 10,867. Tested 20 mins @ 1000#; no press drop. Reset pkr @ 10,054. Installed tree & flwlines. Perfs isolated for gas lift test 10,120-10,855. SI well. AUG 3 1 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. No report. SEP 0 1 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. No report. SEP 0 2 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. No report. SEP 0 6 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 19-hr test 9/5, gas lifted 1 BO, 39 BW, 1288 MCF gas w/1300 psi inj press. SEP 0 7 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 0 BO, 1 BW, 598 MCF gas w/680 psi inj press. SEP 0 8 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

T[illegible]5,337. PB 15,150. On 24-hr t[illegible], gas lifted 0 BO, 3 BW, 679 MCF gas w/600 psi inj press. SEP 09 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 30 BO, 2 BW, 616 MCF gas w/600 psi inj press.

SEP 12 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
9/9	24	0	2	782	600
9/10	24	27	3	529	600
9/11	24	22	7	670	600

SEP 13 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 14 BO, 9 BW, 529 MCF gas w/660 psi inj press. SEP 14 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 9 BO, 2 BW, 391 MCF gas w/640 psi inj press. SEP 15 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 12 BO, 5 BW, 397 MCF gas w/640 psi inj press. SEP 16 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 21 BO, 14 BW, 370 MCF gas w/600 psi inj press. SEP 19 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)
SEP 20 1977

TD 15,337. PB 15,150. On 24-hr test 9/16, gas lifted 29 BO, 3 BW, 688 MCF gas [illegible] psi inj press. On 24-hr test 9/17, gas lifted 20 BO, 0 BW, 688 MCF gas w/750 psi inj press.

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test 9/18, gas lifted 10 BO, 1 BW, 633 MCF gas w/700 psi inj press. On 24-hr test 9/19, gas lifted 16 BO, 1 BW, 716 MCF gas w/760 psi inj press. SEP 21 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 6 BO, 4 BW, 495 MCF gas w/680 psi inj press. SEP 22 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 24-hr test, gas lifted 5 BO, 4 BW, 550 MCF gas w/700 psi inj press. SEP 23 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)

TD 15,337. PB 15,150. On 4-hr test, gas lifted 0 BO, 2 BW, 138 MCF gas w/700 psi inj press. SEP 26 1977

Shell-Duncan-Tew 1-9B5
(Swb test & cmt sqz)
SEP 27 1977

TD 15,337. PB 15,150. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
9/23	24	17	4	253	520
9/24	24	0	3	275	520
9/25	24	14	5	275	520

Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 24 BO, 13 BW, 275 MCF gas w/520 psi inj press. SEP 2 8 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 9 BO, 10 BW, 440 MCF gas w/520 psi inj press. SEP 2 9 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 7 BO, 3 BW, 598 MCF gas w/520 psi inj press. SEP 3 0 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 20 BO, 3 BW, 770 MCF gas w/520 psi inj press. OCT 0 3 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test 9/30, gas lifted 15 BO, 2 BW, 688 MCF gas w/620 psi inj press. On 24-hr test 10/1, gas lifted 0 BO, 11 BW, 271 MCF gas w/520 psi inj press. OCT 0 4 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz) OCT 0 5 1977	TD 15,337. PB 15,150. On 24-hr test 10/2, gas lifted 1 BO, 9 BW, 543 MCF gas w/520 psi inj press. On 24-hr test 10/3, gas lifted 1 BO, 2 BW, 543 MCF gas w/520 psi inj press.
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 4 BO, 8 BW, 543 MCF gas w/520 psi inj press. OCT 0 6 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 5 BO, 0 BW, 40 MCF gas w/460 psi inj press. OCT 0 7 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz Grn R)	TD 15,337. PB 15,150. On 24-hr test, gas lifted 11 BO, 0 BW, 40 MCF gas w/460 psi inj press. (Report discontinued until further activity) OCT 1 0 1977
Shell-Duncan-Tew 1-9B5 (Swb test & cmt sqz)	TD 15,337. PB 15,150. RD 10/10/77) On 24-hr test 5/77 prior to work, prod 10 B & 175 BW. On 24-hr test 9/77 after work, prod 10 BO & 20 BW /400 MCF gas. Well is currently not prod'g. SEP 08 1978 FINAL REPORT

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: P.O. Box 831 Houston, Tx 77001 ATTN: P.G Gelling RM. #6461 WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL & 1201' FEL Sec. 9

5. LEASE DESIGNATION AND SERIAL NO.: PATENTED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 T2S R5W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☒	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

SEE ATTACHED

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9-22-81
BY: M.J. Minder

Providing there is no resource lost to cross flow or commingling!

18. I hereby certify that the foregoing is true and correct

Wm. Kelldorf

SIGNED _____ TITLE Division Prod. Engineer DATE 8-6-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

REMEDIAL PROGNOSIS
TEW 1-9B5
SECTION 9, T2S, R5W
ALTAMONT FIELD, UTAH

Pertinent Data: Shell's Share: 99.2%

Elevation (KB): 7073'
Elevation (GL): 7047'
TD: 15,337'
PBTD: 15,150' (7" RBP at 10,872', 7" CR at 11,040', 7" CIBP at 11,698')
Casing: 13-3/8", 68#, K-55 to 351'; 9-5/8", 40#, K-55 and N-80 to 5841'; 7", 26#, S-95 and P-110 to 11,698'
Liner: 5", 18#, N-80 and S00-95; top at 11,716', bottom at 15,270'
Tubing: 2-7/8", EUE, 6.5#, N-80 to 10,054'
Packer: 7" Baker Model C fullbore at 10,054'
Perforations: 10,121'-15,127' (266 holes) - See current status. Seems to be to great an interval

Objective: CO, perforate, and stimulate the Wasatch.

Procedure:

1. MIRU. Load hole with clean produced water. Remove tree. Install and test BOPE as per field specs.

2. Pull tubing and 7" fullbore packer at 10,054', laying down gas lift mandrels while coming out.

3. RIH and retrieve Baker 7" RBP at 10,872'. RIH with mill and mill out 7" CR at 11,040', cement plug, and 7" CIBP at 11,698'. CO 5" liner to 15,150' (PBTD).

4. Rig up perforators with lubricator (tested to 3000 psi) and perforate as follows:

   a. Perforate using a 3-1/8" O.D. Casing gun with DML Dens-Jet XIV (14.0 gram) charges at 120° phasing.

   b. Record and report wellhead pressure before and after each run.

   c. Perforate (from bottom up) 3 shots per foot at depths shown on Attachment I. Depth reference is McCullough's GR/CBL dated 9/26/72.

5. a. If well can be controlled with water after perforating, run a 5" fullbore packer on tubing and set at ±13,270'. Test tubing to 6500 psi.

   b. If well cannot be controlled with water after perforating, lubricate in a 5" Model "FA-1" packer with Model "B" expendable plug in place and set at ±13,270'. Run in with latch-in seal assembly. Latch into packer at ±13,270' and pressure test tubing to 6500 psi. Run in with sinker bars and jars on wireline and knock out expendable plug from packer at ± 13,270'. Allow well to flow for ±1 day to clean up perfs or until well can be controlled with water. Continue to Step 6.

6. Acid treat perfs 15,128'-13,361' (276 new, 139 old) with 35,000 gallons of 7-1/2% HCL as follows:

a. Pump 1000 gallons 7-1/2% HCL.

b. Pump 4000 gallons acid, dropping one ball sealer (7/8" RCN with 1.2 S.G.) every 100 gallons.

c. Pump 1000 gallons acid containing 1000# benzoic acid flakes.

d. Repeat Step (b) 6 more times and Step (c) 5 more times for a total of 7 stages acid and 6 of diverting material (total 35,000 gallons acid and 280 ball sealers).

e. Flush with 110 bbls of clean produced water.

Notes: (1) All acid and flush to contain 5 gallons G-10/100 gallons HCL or equivalent for ± 70% friction reduction and 1.0# 20-40 mesh RA sand per 1000 gallons (no RA sand in flush).
(2) All acid to contain 3 gallons C-15/1000 gallons HCL for 4 hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids).
(3) Maintain 2500 psi surface casing pressure during treatment if possible.
(4) Pumping rates: pump at maximum possible without exceeding 6500 psi differential pressure between tubing and annulus.
(5) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.
(6) Record ISIP and shut-in pressure decline for at least 20 minutes.

7. Run RA log from PBTD to 13,200'±.

8. a. If well flows, release rig and put on production. When well can be controlled with water, move in rig and proceed to Step 9.

b. If well does not flow, continue with Step 9.

9. a. If a 5" fullbore packer was used in Step 5, POOH with tubing and packer. RIH with 5" RBP and 5" fullbore packer. Set RBP at 13,270'. Pressure test to 3000 psi. If okay, spot 1 sack of sand on plug (at field's discretion).

b. If a 5" Model "FA-1" packer was used in Step 5, POOH with tubing. RIH with Model "D latching" plug. Pressure test plug to 3000 psi. If okay, spot 1 sack of sand on plug (at field's discretion).

10. Rig up perforators with lubricator (tested to 3000 psi) and perforate as follows:

a. Perforate using a 3-1/8" O.D. casing gun with DML Densi-Jet XIV (14.0 gram) charges at 120°F phasing.

b. Record and report wellhead pressure before and after each run.

c. Perforate (from bottom up) 3 shots per foot at depths shown on Attachment II. Depth reference is McCullough's GR/CBL date 9/26/72.

11. a. If well can be controlled with water after perforating, run a 5" fullbore packer on tubing and set at ±12,050'. Test tubing to 6500 psi.

    b. If well cannot be controlled with water after perforating, lubricate in a 5" Model "FA-1" packer as previously stated in Step 5 (b) and set at 12,050'. Continue to Step 12.

12. Acid treat perfs 13,245'-12,178' (108 new) with 24,000 gallons of 7-1/2% HCL as follows:

    a. Pump 1000 gallons 7-1/2% HCL.

    b. Pump 3000 gallons acid, dropping one ball sealer (7/8" RCN wth 1.2 S.G.) every 180 gallons.

    c. Pump 1000 gallons acid containing 1000# benzoic acid flakes.

    d. Repeat Step (b) 5 more times and Step (c) 4 more times for a total of 6 stages acid and 5 of diverting material (total 24,000 gallons acid and 100 ball sealers).

    e. Flush with 110 bbls of clean produced water.

    Notes: (1) All acid and flush to contain 6 gallons G-10/1000 gallons HCL or equivalent for ±70% friction reduction and 1.0# 20-40 mesh RA sand per 1000 gallons (no RA sand in flush).
    (2) All acid to contain 3 gallons C-15/1000 gallons HCL for 4 hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids).
    (3) Maintain 2500 psi surface casing pressure during treatment if possible.
    (4) Pumping rates: pump at maximum possible without exceeding 6500 psi differential pressure between tubing and annulus.
    (5) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.
    (6) Record ISIP and shut-in pressure decline for at least 20 minutes.

13. Run RA log from 13,270'± to 11,950'±.

14. a. If well flows, release rig and put on production. When well can be controlled with water, move in rig and proceed to Step 15.

    b. If well does not flow, continue with Step 15.

15. a. If a 5" fullbore packer was used in Step 11, POOH with tubing and packer.

    b. If a 5" Model "FA-1" packer was used in Step 11, POOH with tubing and seals. RIH and mill out 5" Model "FA-1".

16. a. If an RBP was used in Step 9 (a), circulate sand (if necessary) and retrieve BP. Proceed to Step 17.

b. If a 5" Model "FA-1" packer with Model "D" latching plug was used in Step 9 (b), RIH and retrieve latching plug. RIH and mill out 5" Model "FA-1" packer. Proceed to Step 17.

17. RIH with tubing, GL mandrels, and 5" Model "FA-1" and 7" Model "C" fullbore. Set Model "FA-1" at 12,100'. Set fullbore at 10,050'. Install GL mandrels as shown in Attachment III.

18. Return well to production.

19. Report well tests on morning report until production stabilizes.

G. L. Thompson

MEB:SPT

Date

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 831 Houston, Tx 77001 ATTN: P.G. Gelling Rm. #6459 WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2334' FNL & 1201' FEL Sec. 9

5. LEASE DESIGNATION AND SERIAL NO.
PATENTED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Tew

9. WELL NO.
1-9B5

10. FIELD AND POOL, OR WILDCAT
ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 T2S R5W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7073' KB

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

SEE ATTACHED

18. I hereby certify that the foregoing is true and correct

SIGNED W. F. N. KELLDORF TITLE DIVISION PROD. ENGINEER DATE 1-20-82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

LABEL: 127659
DAILY COST: 56980
CUM COST: 127659
DATE: 8-11-81
ACTIVITY: 8-11-81 ACTIVITY: RIH W/5 IN. FULL BORE PKR SET @
02 13045 FT. RU DOWELL TO AT PERF INTERVAL 12178-
03 13245 FT. W/24000 GALS 71/2% HCL AS FOLLOWS
04 1. 1000 GALS 71/2% HCL
05 2. 5000 GALS HCL 1 BALL SEALER EVERY 126 GALS
06 3. 1000 GALS HCL W/1000 LBS BA FLAKES
07 REPEAT STEP 2 5 TIMES REPEAT STEP 3 4 TIMES
08 USING 100 7/8 RCN BALL SEALERS HELD 1400 PSI 98PM
09 LATE ON BACK SIDE DURING TREATMENT MAX PSI 8000
10 AVG PSI 7400 13 BPM AVG ISIP 4000 5 MIN 3800 PSI
11 10 MIN 3600 PSI 15 MIN 3500 PSI 20 MIN 3500 PSI 25
12 MIN 3200 PSI 30 MIN 3000 PSI VERY LOW BREAKS DUPING
13 TREATMENT RD DOWELL RU OWP TO RUN RA LOG FROM 11800
14 FT.- 13190 FT. UNABLE TO GET TO BP @ 13250 FT. ALL
15 PERFS SEEMED TO TAKE THE TREATMENT 0 PSI ON TBG AFTER
16 LOGGING WAS COMPLETED SDON

WELL: TEW 1-8B5
LABEL: FIRST REPORT
AFE: AFE # 517367
FOREMAN: R.A. RODRIGUIS
RIG: WOW#19
OBJECTIVE: C.O. PERF. AND STIMULATE WASATCH
AUTH. AMNT: 171000
DAILY COST: 3100
CUM COST: 3100
DATE: 07-23-81
ACTIVITY: 7-23-81 MIRU WOW #19 400# ON CSG. 0 PSI ON TBG.
02 BLED CSG. OFF. UNABLE TO PUMP DOWN TBG. PUMPED
03 150 BBLS. WATER DOWN CSG. PUMPED 65 BBLS. OF HOT
04 WATER DOWN TBG. AT 2500 PSI. OPENED WELL TO PIT
05 UNLOADED TBG. VOLUME AND WELL STARTED MAKING
06 OIL TO PIT. FLOWED WELL TO PIT FOR 2 1/2 HRS.
07 SHUT WELL IN. S.D.O.N.
08 NOTE: WE HAVE NOT RECIEVED AN AUTH. AMOUNT
09 FOR THIS AFE #517367.

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

LABEL:	810727
DAILY COST:	1906
CUM COST:	6500
DATE:	7-24-25-81
ACTIVITY:	7-24-81 ACTIVITY: FLOWED WELL TO PIT FOR 5 HRS
02	RELEASED PKR WENT DOWN HOLE AND CIRCULATED SAND
03	OFF SBP RETRIEVED BP POOH SDON
04	----------
05	7-25-81 ACTIVITY: PULLED THE REST OF THE WAY OUT
06	OF THE HOLE PUT ON MILL RIH CIRCULATED HOLE CLEAN
07	GOT READY TO MILL OUT CEMENT SDON

LABEL:	810728
DAILY COST:	3-25
CUM COST:	13120
DATE:	7-27-81
ACTIVITY:	7-27-81 ACTIVITY: MILLED OUT 7 IN. LINER PLUG-
02	GING UP WITH STEEL CUTTINGS SDON

LABEL:	810729
DAILY COST:	3221
CUM COST:	16350
DATE:	7-28-81
ACTIVITY:	7-28-81 ACTIVITY: D.O CEMENT PLUG TO 11220 FT.
02	W/FLAT BOTTOM MILL SDON

LABEL:	NOE
DAILY COST:	2688
CUM COST:	19038
DATE:	7-29-81
ACTIVITY:	7-29-81 ACTIVITY: MILLED OUT CEMENT FROM 11220 FT. TO
02	7 IN CIBP @11698 FT. CEMENT VERY SPOTTY IN CASING
03	FROM 11300 FT. TO 11698 FT. ARC TBG VOL. STARTED
04	POOH W/ 2 7/8 TBG AND MILL. SDON.

LABEL:	-----
DAILY COST:	2504
CUM COST:	21542
DATE:	7-30-81
ACTIVITY:	7-30-81 FINISHED POOH WITH TBG. AND 6 1/8 INCH
02	FLAT BOTTOM MILL. RIH WITH 6 1/8 INCH X 4 1/8
03	INCH MILL SHOE TO MILL OUT C.I.B.P. AT 11698 FT.

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

04 MILLED 6 FT. DOWN OVER B.P. WOULD NOT DROP .
05 MILLED ON IT FOR 5 HRS. CLEANED TBG. UP
06 STARTED P.O.O.H. WITH TBG. AND MILL.

LABEL: 810801
DAILY COST: 3345
CUM COST: 24887
DATE: 7-31-81
ACTIVITY: 7-31-81 ACTIVITY: FINISHED POOH W/TBG AND MILL SHOE
02 RU DIALOG RUN IN HOLE TO SEE IF 5 IN. LINER OPEN
03 COULD NOT GET IN LINER RIH W 27/8 IN. CONCAVE MILL
04 ON 27/8 IN. TBG TO 11698 FT. (CIBP) DRILLED ON BP
05 TOP 1/2 HR CSG AND TBG WENT ON VACUM WENT ON DOWN
06 TO 5 IN. LINER TOP @ 11714 FT. W/MILL CIRC HOLE
07 CLEAN STARTED POOH W 27/8 IN. TBG AND MILL

LABEL: 810802
DAILY COST: 2700
CUM COST: 27187
DATE: 8-1-81
ACTIVITY: 8-1-81 ACTIVITY: FINISHED POOH W/TBG AND 41/8 IN.
02 MILL RIH W/41/8 IN. MILL TO PUSH BP THRU 5 IN.
03 LINER MILLED ON TOP TO 5 IN. LINER FOR 4 HRS MILL
04 KEEPS PLUGGING UP UNABLE TO PUSH BP THRU LINER
05 TOP CIRC SOME RUBBER AND SLIPS PARTS WHEN WE DO
06 GET STUFF TO SEC SD FOR WEEKEND

LABEL: 810804
DAILY COST: 4416
CUM COST: 31603
DATE: 8-3-81
ACTIVITY: 8-3-81 ACTIVITY: MILLED ON BP @ 11716 FT. FOR 3 HRS
02 MILL KEEPS PLUGGING UP UNABLE TO CLEAR TBG POOH W/
03 27/8 IN. TBG AND 41/8 IN. MILL FOUND A SLIP SEGMENT
04 WEDGED IN THE BOTTOM OF THE MILL SO NO MORE CUTTINGS
05 COULD GET UP THE TBG RIH W/TBG AND 41/8 IN. MILL
06 SHOE TO TOP OF 5 IN. LINER @ 11716 FT. SDON

LABEL: -----
DAILY COST: 1800
CUM COST: 34007
DATE: 8-4-81

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

ACTIVITY:	8-4-81 ACTIVITY: TAGGED TOP OF BP @11716 FT.
02	PULLED OFF BOTTOM 1 FT. CIRC HOLE FOR 45 MIN. W/GOOD
03	RETURNS - NO CUTTINGS REC. MILLED ON BP IN 5 IN.
04	LINER LOST RETURNS BP FELL THROUGH HITTING BRIDGES.
05	ON WAY IN PICKED UP POWER SWIVEL A FEW TIMES TO GET
06	TBG DOWN CO TO 14873 FT. ATTEMPTED TO GET CIRC WOULD
07	NOT CIRC. POOH W/TBG TO TOP OF 5 IN. LINER.
08	PUMPED PRODUCED WTR DOWN TBG TO INSURE TBG OPEN OK. SOON.
LABEL:	-----
DAILY COST:	4326
CUM COST:	36382
DATE:	8-5-81
ACTIVITY:	8-5-81 ACITIVTY: RIH W/MILL TO 14873 FT. RU DJ TO
02	FILL HOLE AND CIRC PARTED RETURNS W/1000 BBLS 12 BPM
03	500 PSI STARTED MILLING CO TO 15135 FT. W/O RETURNS.
04	POOH W 4-1/2 IN. MILL LAYING DOWN 64 JTS. OF TBG.
05	TBG STRING STARTED PULLING OUT SOON.
LABEL:	810877
DAILY COST:	1785
CUM COST:	38167
DATE:	8-6-81
ACTIVITY:	ACTIVITY: FINISHED POOH W/TBG AND MILL (WET STRING)
02	BOTTOM JT FULL OF SD RU OWP TO PERF 3 ISPF 14.0
03	GRAM CHARGES 120 DEGREES PHASING USING MCCULLOUGHS
04	GR/CBL 9126-72 FOR DEPTH REFERENCE FROM THE BOT-
05	TOM UP @ THE FOLLOWING DEPTHS W/FI 2640 FT. FROM
06	SFC OWP TD @ 15122.5 UNABLE TO PERF @ 15126 FT.
07	PERF FROM 15112-14723FT. PERF 14723-14396 FT. PERF
08	14395-13926 FT. PERF 13926-13551 FT. RIG DOWN OWP
09	RUN IN 2000 FT. KILL PIPE
10	SOON
LABEL:	810811
DAILY COST:	2800
CUM COST:	110079
DATE:	8-7-8-10-81
ACTIVITY:	8-7-81 ACTIVITY: RIH WITH 27/8 IN. TBG AND 5 IN.
02	PKR SET PKR @ 13228 FT. PUMP STANDING VALVE DOWN
03	TBG PRESSURE TEST TBG TO 6000 FT. RIG UP DELSCO
04	PULL STANDING VALVE REMOVE BOP AND INSTALL 10000

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

05	PSI TREE			SDON
06	8-8-81 ACTIVITY: RIG UP DOWELL HELD SFTY MTG ACIDIZED			
07	ACCORDING TO PROG			
08	MAX RATE 18 BB/MIN			MAX PRESS 8000 PSI
09	AVG RATE 16 BB/MIN			AVG PRESS 7000 PSI
10	MIN RATE 14 BB/MIN			MIN PRESS 5400 PSI
11	ISIP-500 PSI CSG -1500 PSI 5-10-15-20 MIN 0 PSI			
12	ACID 840 BBL FLUSH 110 BBL BALLS 280 BAF 6000 LBS			
13	TOTAL FLUID 950 BBLS RIG DOWN DOWELL RIG UP SWP			
14	RUN RA LOG FROM 15135 FT. TO 12200 FT. LOG SHOWS			
15	ABOUT 75% TREATMENT THROUGH ALL PERFS RIG OWP SDON			
16	8-10-81 ACTIVITY: 600 PSI ON IBG BLED GAS OFF TO PIT			
17	AND INSTALLED BOPS POOH W/F IN FULLBORE PKR FROM			
18	13229 FT. RU OWP SET CIBP 13250 FT. PERF @ THE FOLLOWING			
19	DEPTHS USING 3 1/8 IN. OD GUNS 14.9 GRAM CHARGES			
20	13245	13088	12518	12270
21	934	852	506	260
22	129	807	494	236
23	116	806	484	217
24	077	794	473	212
25	055	769	463	204
26	12994	752	455	188
27	917	746	446	178
28	897	528	431	
29	RD OWP STARTED RIH W/ 5 IN. FULL BORE PKR			
30	SDON			

LABEL: 810812
DAILY COST: 56980
CUM COST: 167059
DATE: 8-11-81
ACTIVITY: 8-11-81 ACTIVITY: RIH W/5 IN. FULLBORE PKR SET @
02 12045 FT. RU DOWELL TO AT PERF INTERVAL 12178-13245 FT.
03 W/24000 GALS 7 1/2% HCL AS FOLLOWS 1000 GALS 7 1/2% HCL
04 3000 GALS HCL 1 BALL SEALER EVERY 180 GALLONS 1000 GALS
05 HCL W/1000 LBS BA FLAKES REPEAT STEP 1 (1000 GALS 7 1/2%
06 HCL) 5 TIMES REPEAT STEP 3 FOUR TIMES(3000 GALS HCL
07 1 BALL SEALER EVERY 180 GALS) USING 100 7/8 IN. PCN
08 BALL SEALERS HELD 1400 LBS 9 /8PM LATE ON BACKSIDE DU-
09 RING TREATMENT MAX PSI 8000 AVG PSI 7400 13 BPM / AVG
10 ISIP 4000 PSI 5 MIN 3800 PSI 10 MIN 3600 PSI 15 MIN
11 3500 PSI 20 MIN 3500 PSI 25 MIN 3200 PSI 30 MIN 3200

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

12	PSI VERY FEW BREAKS DURING TREATMENT RD DOWELL RU OWP
13	RUN PA LOG FROM 11900 FT.-13180 FT. UNABLE TO GET TO
14	BP @ 13250 FT. ALL PERFS SEEMED TO TAKE TH E TREATMENT
15	0 PSI ON TBG AFTER LOGGING COMPLETED SDON
LABEL:	810813
DAILY COST:	810813
CUM COST:	810813
DATE:	810813
ACTIVITY:	200 PSI ON TBG BLED WELL DOWN REMOVED TREE INSTALLED
02	BOPS UNSEATED PKR @ 12045 FT. AND POOH RIH W/4 1/8 IN.
03	MILL TO MILL CIBP @ 13250 FT. TAGGED TOP OF FILL @
04	13185 FT. SDON
LABEL:	810814
DAILY COST:	2700
CUM COST:	220400
DATE:	8-13-81
ACTIVITY:	8-13-81 ACTIVITY: FILL FROM 13185-13250 @ CIBP
02	W/RETURNS LOST RETURNS ONCE WE STARTED MILLING
03	CIBP STARTED POOH TBG WET POOH COMPLETELY
04	SDON
LABEL:	810818
DAILY COST:	11122
CUM COST:	217340
DATE:	8-14-15-81
ACTIVITY:	8-14-81 ACTIVITY: RIH W/MILL AND TBG MILLED ON CIBP
02	@ 13250 FOR 1 HR PLUG FELL CHASED PLUG TO 15072 FT.
03	POOH W/TBG LAYING DOWN 100 JTS SDON
04	8-15-81 ACTIVITY: RO OWP RIH W/BAKER FA-1 PKR ON
05	SWIVELINE SET @ 12100 FT. RD OWP RIH W/5 SA BALL
06	CATCHER2050 FT. OF TBG BAKER 7 IN. HYDRO STATIC PKR
07	SET PKR @ 10047 FT. W/8 CAMCO MANDRELS IN TBG STRING
08	STRING INTO PKR W/SEAL ASSEMBLY SET 7 IN. HYDRO STATIC
09	PKR W/2000 PSI SD REMOVED BOP INSTALLED 5000 PSI TREE
10	RD WOW 19 FINAL RIG REPORT TEST REPORTS WILL FOLLOW
LABEL:	810820
DAILY COST:	NONE
CUM COST:	217340
DATE:	8-17-18-19-20-81

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 347
ISSUED 11/24/81

ACTIVITY: 7?
02 8-17-81 ACTIVITY: HRS. 24 - FTP 300 - CHOKE 27/64
03 OIL 53 - WTR 156 - MCF 677 - INJ. GAS 571
04 8-19-81 ACTIVITY: HRS. 24 - FTP 170 - CHOKE 30/64
05 OIL 42 - WTR 315 - MCF 687 - INJ. GAS 598
06 8-19-81 ACTIVITY: HRS. 24 - FTP 150 - CHOKE 30/64
07 OIL 56 - WTR 329 - MCF 787 - INJ. GAS 702
08 8-20-81 ACTIVITY: HRS. 24 - FTP 200 - CHOKE 30/64
09 OIL 46 - WTR 366 - MCF 787 INJ. GAS 747

LABEL: FINAL REPORT
DAILY COST: FINAL REPORT
CUM COST: 217340
DATE: 8-21-22-23-81
ACTIVITY: 8-21-81 ACTIVITY: HRS 24-OIL 49-WTR 335-MCF GAS 787
02 CHOKE 30/64-FTP 180-INJ GAS 787
03 8-22-81 ACTIVITY: HRS 24-OIL 130-WTR 335-MCF GAS 983
04 CHOKE 30/64-FTP 200-INJ GAS 841
05 8-23-81 ACTIVITY: HRS 24-OIL 41-WTR 300-MCF GAS 823
06 CHOKE 30/64-FTP 200-INJ GAS 841

Shell Oil Company

P.O. Box 831
Houston, Texas 77001

December 30, 1983

Mr. Norm Stout
State of Utah
Natural Resources
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Dear Mr. Stout:

TRANSFER OF OWNERSHIP AND ASSETS
FROM SHELL OIL COMPANY TO
SHELL WESTERN E&P INC.
STATE OF UTAH

In accordance with our recent conversation, the purpose of this letter is to reduce to writing that Shell Western E&P Inc. ("SWEPI"), a subsidiary of Shell Oil Company, has been formed. Shell Western E&P Inc. is a Delaware corporation with its offices located at 200 North Dairy Ashford Road in Houston, Texas. The mailing address is P. O. Box 831, Houston, TX 77001.

Effective January 1, 1984, Shell Oil Company will transfer portions of its oil and gas operations to Shell Western E&P Inc. and Shell Western E&P Inc. will assume all of the rights, interests, obligations and duties which Shell Oil Company currently has as a result of its exploration, development and production operations in the State of Utah.

As you are aware, Shell Oil Company is currently the holder of various permits and agency authorizations. In view of the fact that Shell Western E&P Inc. will assume all of the liabilities and obligations of Shell Oil Company's exploration and production activities within the state, we respectfully request that you transfer all permits or other authorizations from Shell Oil Company to Shell Western E&P Inc., effective January 1, 1984.

To support this request, a copy of the power of attorney appointing the undersigned as Attorney-in-Fact for Shell Western E&P Inc. is enclosed. On behalf of Shell Western E&P Inc., enclosed are recently issued Bond No. Shell 1835 and Bond No. Shell 1841. The bonds were issued by the Insurance Company of North America. In the near future, I shall request that the existing Shell Oil Company bonds be released.

It is my understanding, pursuant to our prior discussion, that this letter will comply with your requirement regarding the change in the name of the permittee.

Sufficient copies of this letter are being provided to your office so that a copy can be placed in each appropriate file. A listing of active wells is enclosed. Thank you in advance for your cooperation in this matter.

Yours very truly,

G. M. Jobe

G. M. Jobe
Administrator, Regulatory-Permits
Rocky Mountain Division
Western E&P Operations

GMJ:beb

Enclosures

PRD42780 120

4241 State Office Building: Salt Lake City, Ut. 84114. ● 801-533-5771

MONTHLY OIL AND GAS PRODUCTION REPORT

Duchesne

Operator name and address:

UTEX OIL CO.
% SHELL WESTERN E&P INC.
[redacted]
PO BOX 576
HOUSTON TX 77001
ATTN: P.T. KENT, OIL ACCT.

Operator name change

N1046

Utah Account No. N0840

Report Period (Month/Year) 8 / 84

Amended Report ☐

Well Name API Number Entity Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
POTTER 1-14B5 4301330127 01665 02S 05W 14	WSTC	0	0	0	0
LOVERIDGE-GATES FEE 1-3B3 4301330117 01670 02S 03W 3	GR-WS	21	696	0	2417
SHELL TEW 1-09B5 4301330121 01675 02S 05W 9	WSTC	0	0	0	0
BROTHERSON 1-33A4 4301330272 01680 01S 04W 33	GR-WS	31	1256	1866	3322
CHANDLER 1-05B4 4301330140 01685 02S 04W 5	WSTC	12	231	491	2813
EHRICH 1-11B5 4301330157 01690 02S 05W 11	WSTC	23	129	946	1709
ELLSWORTH 1-17B4 4301330126 01695 02S 04W 17	WSTC	28	4743	4853	5110
UTE UNIT 1-01B4 4301330129 01700 02S 04W 1	WSTC	22	759	738	6891
REEDER 1-17B5 4301330218 01710 02S 05W 17	WSTC	31	1093	1149	7835
UTE UNIT 1-22B5 4301330134 01715 02S 05W 22	WSTC	20	273	1171	1883
ROBB 1-29B5 4301330135 01720 02S 05W 29	WSTC	31	1179	3430	5074
REAMINGTON 1-34A3 4301330139 01725 01S 03W 34	WSTC	31	1638	2297	6963
POTTER 1-24B5 4301330356 01730 02S 05W 24	WSTC	11	66	511	430
	TOTAL		12063	16452	44447

OCT - 2

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date 9-28-84

Authorized signature _____ Telephone _____

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: ANR Limited Inc.

3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: See attached list

RECEIVED
DEC 31 1986
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 9 2S 5W

12. COUNTY OR PARISH: Duchesne

13. STATE:

14. PERMIT NO.: 43-013-30121

15. ELEVATIONS (Show whether DF, RT, GR, etc.):

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other) -Change Operator			[X]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

ANR Limited has been elected successor Operator to Utex Oil Company on the oil wells described on the attached Exhibit "A".

18. I hereby certify that the foregoing is true and correct

SIGNED: [illegible] TITLE: Dist. Land Mgr. DATE: 12/24/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

ANR

ANR Production Company
a subsidiary of The Coastal Corporation

C12712

RECEIVED
JAN 25 1988

DIVISION OF
OIL, GAS & MINING

January 19, 1988

Natural Resources
Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Ms. Lisha Romero

N0235

This letter includes the information you requested on January 12, 1988 concerning the recent merger of ANR Limited, Inc. into ANR Production Company. Effective December 31, 1987 (December, 1987 Production), ANR Limited, Inc. merged into ANR Production Company; and henceforth, will continue operations as ANR Production Company.

N0675

ANR Production Company will begin reporting and remitting the Utah Conservation and Occupation Taxes effective December, 1987 production for leases previously reported by ANR Limited, Inc. (Utah Account No. N-7245). ANR Production Company will use the new Utah Account No. N-0675, as assigned by the State of Utah.

Please contact me at (713) 877-6167 if I can answer any questions on this matter.

Very truly yours,

Roger W. Sparks

Roger W. Sparks
Manager, Crude Revenue Accounting

The computer shows the ANR Limited wells listed under account no. N0235.
DTS
1-26-88

CC: AWS

CTE:mmw

Lisha,
I dont see any problem w/this. I gave a copy to Arlene so she could check on the bond situation. She didn't think this would affect their bond as the bond is set up for coastal and its subsidiaries (ANR, etc.) No Entity Number changes are necessary. DTS 1-26-88

UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

● ANR LIMITED INC./COASTAL
P O BOX 749
DENVER CO 80201 0749
ATTN: RANDY WAHL

Utah Account No. N0235

Report Period (Month/Year) 11 / 87

Amended Report ☐

Well Name API Number Entity Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
FARNSWORTH #2-12B5 4301331115 01646 02S 05W 12	WSTC				
UTE TRIBAL 1-20B5 4301330376 01650 02S 05W 20	WSTC				
ELLSWORTH 1-08B4 4301330112 01655 02S 04W 8	WSTC				
ELLSWORTH 1-09B4 4301330118 01660 02S 04W 9	WSTC				
POTTER 1-14B5 4301330127 01665 02S 05W 14	WSTC				
LOTRIDGE GATES FEE 1-3B3 4[illegible]330117 01670 02S 03W 3	GR-WS				
SHELL TEW 1-09B5 4301330121 01675 02S 05W 9	WSTC				
BROTHERSON 1-33A4 4301330272 01680 01S 04W 33	WSTC				
CHANDLER 1-05B4 4301330140 01685 02S 04W 5	WSTC				
EHRICH 1-11B5 4301330157 01690 02S 05W 11	WSTC				
EHRICH #3-11B5 4301331080 01691 02S 05W 11	WSTC				
ELLSWORTH 1-17B4 4301330126 01695 02S 04W 17	WSTC				
ELLSWORTH #2-17B4 4301331089 01696 02S 04W 17	WSTC				
	TOTAL				

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

APR 29 1988

DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER	5. LEASE DESIGNATION AND SERIAL NO.: Patented
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT AGREEMENT NAME:
2. NAME OF OPERATOR: ANR Production Company	8. FARM OR LEASE NAME: Tew
3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749	9. WELL NO.: 1-9B5
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL & 1201' FEL, Section 9	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: (SE NE) Section 9, T2S-R5W
14. PERMIT NO.: 43-013-30121	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047' GL 7073' KB
	12. COUNTY OR PARISH: Duchesne
	13. STATE: Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Shut in			[X]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The above referenced well was shut in 4/14/88 due to economics.

18. I hereby certify that the foregoing is true and correct

SIGNED Brenda W. Swank (Brenda W. Swank) TITLE Associate Regulatory Analyst DATE 4/26/88

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Tew

9. WELL NO.: 1-9B5

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 9, T2S-R5W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED JAN 19 1989 DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: ANR Production Company

3. ADDRESS OF OPERATOR: P.O. BOX 749, Denver, Colorado 80201-0749

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL & 1201' FEL

14. PERMIT NO.: 43-013-30121

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047' GL

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[X]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)			[ ]	(Other)			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Proposed Procedure:

1. MIRU. Kill well, NU BOPE. Release from the 5" FA-1 pkr & POOH w/tbg, 7" Hydrostatic pkr & gas lift eqpt.
2. CO wellbore to liner top @ 11,999'.
3. RIH & set 7" RBP @ ± 11,520'. Spot 2 sx sand on RBP.
4. RIH w/2-7/8" tbg open ended. Tag RBP. Perform 3000# Braden-head squeeze across perfs 10,121-11,483' w/300 sx cmt.
5. CO wellbore to sand top. RIH w/pkr & pressure test squeeze. Repeat if necessary. CO well & retrieve BP.
6. Mill out 5" FA-1 prod pkr @ ± 12,100'. CO wellbore to ±15,072'.
7. Run csg inspection log across 7" 29# intermediate string from 0-10,100'.
8. RIH w/5" CIBP & set @ ± 13,470'. RIH w/RTTS pkr on 2-7/8" tbg & set @ ± 13,285'. Establish injection rate.
9. RIH w/cmt retainer & set @ ± 13,285'. Inject 100 sx cmt into retainer & spot 2 sx on top. Est. cmt top @ ± 13,260. (398 holes plugged off.)
10. Perf Wasatch w/3 SPF using 3-1/8" csg gun @ 11,757-13,090'. See attached list of perf depths.
11. RIH w/5" RTTS treating pkr & set @ ± 11,745'. Acidize perfs from 11,757-13,245' w/10,000 gals 15% HCL + additives.
12. Swab/flow back load. Kill well. POOH w/treating pkr. RIH w/gas lift production eqpt. Return well to production.

18. I hereby certify that the foregoing is true and correct

SIGNED Eileen Danni Dey (Eileen Danni Dey) TITLE Regulatory Analsyt DATE January 17, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

1-26-89

John R. Baza

*See Instructions on Reverse Side

Tew #1-9B5
Proposed Perforation Schedule
Reference Log: Schlumberger FDC-CNL Log dated
7-22-72 (Run 1) and 9-7-72 (Run 2)

11,727 *	11,878	12,222	12,601	13,108
735	892	227	620	
738		282	624	13,240
742	11,909	292	676	
749	913		681	
757	926	12,311	699	
766	928	317		
773	937	345	12,706	
	946	395	720	
11,808	950			
811		12,425	12,816	
821	12,039	473	836	
824	051	496	861	
828				
835	12,105	12,538	12,999	
837	115	543		
843	133	560	13,008	
852	147	565	020	
856	167	581	031	
870	176	586	058	
872	190		090	
876				

58 zones, 70 feet

* DELETED TO ACCOMODATE PACKER SETTING IN 6" LINER FOR ACID STIMULATION AS AGREED BY SCP, RLR, RDL 9/9/88

Attachment to W.A.Cole letter
dated 9/2/88

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

8

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
AUG 21 1989
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Tew
9. WELL NO.: 1-9B5
10. FIELD AND POOL, OR WILDCAT: Altamont
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 9, T2S-R5W
12. COUNTY OR PARISH: Duchesne
13. STATE: Utah

1. OIL WELL [X] GAS WELL [ ] OTHER
2. NAME OF OPERATOR: ANR Production Company
3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2334' FNL & 1201' FEL
14. PERMIT NO.: 43-013-30121
15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[X]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

May 24-July 13, 1989

See attached chronological report for work done on the above referenced well.

OIL AND GAS

DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2- MICROFILM	✓
3- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED Brenda W. Swank TITLE Regulatory Analyst DATE August 15, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.1842% ANR AFE: 62621
TD: 15,337'
CSG: 5" LINER @ 11,716'-15,270'
PERFS: 10,121'-15,128' (WASATCH & G.R.)
CWC(M$): $185.5

5/24/89 POOH w/tbg & G.L. equip. MIRU. Rel 7" hyd pkr @ 10,044' & rel from 5" FA-1 pkr @ 12,100'. Start POOH.
DC: $2,799 TC: $2,799

5/25/89 RIH w/7" csg scraper. POOH w/7" pkr & 7 G.L. mandrels on 2-7/8" tbg. Start RIH w/7" csg scraper on 2-7/8" tbg.
DC: $2,050 TC: $4,849

5/26-27/89 Prep to C.O. 5" liner. Fin RIH w/7" csg scraper to LT @ 11,716'. POOH. Pmp wtr dwn csg & tbg. RIH w/5" pkr milling tool on 2-7/8" x 2-3/8" tbg. Mill over 5" pkr. Work pkr extensively to free. POOH w/5" pkr milling tool & BHA.
DC: $12,907 TC: $17,756

5/30/89 Prep to set 5" CIBP. RIH w/4-1/8" mill & C.O. tools on 2-7/8" x 2-3/8" tbg. C.O. 5" liner to 15,072'. POOH.
DC: $4,013 TC: $21,769

5/31/89 Tag cmt top. RIH set 5" CIBP @ 13,480' on W.L. RIH w/4-1/8" bit on 2-7/8" x 2-3/8" tbg & tag CIBP. Pmp 40 BW dwn tbg. Spot 50 sxs Class "G" cmt plug. Flush w/60 BW. POOH to LT. Pmp 23 BW dwn tbg.
DC: $9,409 TC: $31,178

6/1/89 Tag cmt top. RIH w/4-1/8" mill & tag cmt top @ 13,473'. Spot 75 sxs Class "G" cmt w/add. Flush w/35 BW. POOH to LT.
DC: $7,427 TC: $38,605

6/2-3/89 RIH w/drag bit to tag cmt. Tag cmt @ 13,462'. POOH, 12 jts of 2-3/8" plugged w/cmt. Spot 75 sxs Class "G" cmt w/add.
DC: $9,589 TC: $48,194

6/5/89 Drlg cmt. RIH, tag cmt top @ 12,680'. Drl cmt from 12,680-12,690'. Fell thru to 12,710'. Drl spotty cmt to 12,972'. Hit hard cmt. Drl hd cmt to 13,071'.
DC: $2,227 TC: $50,421

6/6/89 RIH w/pkr to tst sqz. Drl hard cmt to 13,260'. POOH w/CO tools.
DC: $3,014 TC: $53,435

6/7/89 RIH w/7" RBP on WL. Fin POOH w/drag bit. PU & RIH w/pkr. Set pkr @ 13,246'. Tst sqz perfs from 13,260'-13,480' to 2000 psi - held. POOH.
DC: $3,753 TC: $57,188

6/8/89 PU & RIH w/RBP & pkr on tbg. TIH w/WL, set RBP. Could not get below 5732' due to wax buildup. POOH w/RBP.
DC: $5,044 TC: $62,232

6/9-10/89 Press tst WH assembly for leak. Pmp 60 BW dwn csg. RIH w/7" RBP & pkr on 2-7/8" tbg. Set RBP @ 11,519'. Press tst plug to 2000#. OK. Set pkr @ 10,089'. Est inj rate @ 2.8 BPM @ 600# into sqz perfs @ 10,121'-11,483'. Csg appears to have leak. Reset pkr to isolate csg leak @ 6004'-6035'. POOH w/pkr & retr hd. Dump 2 sxs sd on RBP @ 11,506'. Ran CCL across csg leak. RIH w/7" pkr & RBP. Set RBP @ 10,068'. Tst plug to 2000#. OK. Est inj rate @ 3.9 BPM @ 900#. POOH w/pkr. Dump sd on RBP @ 10,068'. Est communication w/9-5/8" & 7" csg. WH appears to communicate.
DC: $10,242 TC: $72,474

6/12/89 Prep to set CICR above csg leak. Set 7" pkr @ 30'. Press tst WH assembly. ND BOP & csg spools. Repair WH.
DC: $2,144 TC: $74,618

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

6/13/89 Prep to CO 7" csg. RIH & set CICR @ 5710' on WL. RIH w/CICR stinger on 2-7/8" tbg. Press tst 7" csg to 2000#. OK. Circ 9-5/8" csg w/160 BW. Pmp 300 sxs Cl "G" hyfill cmt & 200 sxs neat cmt. Displ cmt to CICR. POOH w/CICR stinger on 2-7/8" tbg. RIH w/6-1/8" mill on 2-7/8" tbg to 5000'.
DC: $12,913 TC: $87,531

6/14/89 CO 7" csg. Fin RIH w/6-1/8" mill on 2-7/8" tbg to CICR @ 5710'. DO CICR. Circ well clean.
DC: $3,484 TC: $91,015

6/15/89 CO 7" csg. DO CICR. Rec'd slip assmbly. Cone spinning. Circ hole clean. POOH w/6-1/8" mill on 2-7/8" tbg. RIH w/new 6-1/8" mill on 2-7/8" tbg. Circ hole clean.
DC: $2,864 TC: $93,879

6/16-17/89 CO 7" csg. CO 7" csg from 5710' to 5718'. Mill worn out. POOH w/6-1/8" mill on 2-7/8" tbg. Mill plugged w/iron. RIH w/new 6-1/8" mill on 2-7/8" tbg. CO 7" csg to 5812'. Circ hole clean. CO 7" csg to 6002'. Circ hole clean.
DC: $4,001 TC: $97,880

6/19/89 CO 7" csg. CO 7" csg from 6002' to 6071'. Circ hole clean. Press tst csg sqz to 2000#. Est inj rate @ 2.7 BPM @ 1800#. Spot 200 sxs Cl "G" cmt across csg leak. POOH to 4700'. Rev tbg clean w/45 BW. Bradenhead sqz cmt to 2000# w/24 BW.
DC: $7,948 TC: $105,828

6/20/89 CO 7" csg. SICP 1400#. 9-5/8" csg on vac. RIH w/6-1/8" bit. Tag cmt top @ 5754'. CO 7" csg to 5942'. Cmt still soft. Press sqz to 2000#.
DC: $1,200 TC: $107,028

6/21/89 Prep to resqz. DO cmt from 5942'-6074'. Press tst sqz to 2000 psi. WO success. POOH to 6025'.
DC: $1,615 TC: $108,643

6/22/89 DO cmt. Fill hole w/4 bbls. Pmp 150 sxs CL "G" cmt. POOH w/36 jts tbg. Rev out. SI tbg. Sqz to 3000#. SWI w/3000#. RD Howco.
DC: $6,309 TC: $114,952

6/23-24/89 DO cmt. TIH & tag cmt @ 5289'. Drld out cmt 5289'-6002'.
DC: $4,201 TC: $119,153

6/26/89 POOH w/RBP. DO cmt from 6002'-6110'. Fell thru. Press tst sqz to 2000 psi. OK. Tag sd @ 9998'. POOH & LD 6-1/8" drag bit. PU & RIH w/retr hd. PU RBP.
DC: $3,004 TC: $122,157

6/27/89 Prep cmt sqz. LD RBP & retr hd. RIH w/6-1/8" drag bit. Tag sd @ 10,496'. Est inj rate in sqz zone 10,121' to 11,483' @ 4.4 BPM @ 600 psi.
DC: $1,878 TC: $124,035

6/28/89 DO cmt. Bradenhead 300 sxs Cl "G" cmt w/add into perfs from 10,121' to 11,483' w/2000 psi. POOH.
DC: $12,184 TC: $136,219

6/29/89 DO cmt. Tag cmt top @ 9809'. DO cmt top @ 9809'. DO cmt from 9809' to 10,212'.
DC: $2,809 TC: $139,028

6/30-7/1/89 CO 7" csg. CO 7" csg from 10,212'-10,576'. Circ hole clean. CO 7" csg from 10,576' to 10,730'. Circ hole clean.
DC: $4,081 TC: $143,109

7/3/89 TFNB. CO 7" csg from 10,730' to 10,760'. Circ hole clean. CO 7" csg from 10,760' to 10,885'. Circ hole clean.
DC: $1,867 TC: $144,976

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

7/5/89 CO 7" csg. POOH w/6-1/8" bit on 2-7/8" tbg. RIH w/new 6-1/8" bit on 2-7/8" tbg. CO 7" csg from 10,885' to 10,955'. Circ hole clean.
DC: $2,603 TC: $147,579

7/6/89 CO 7" csg. CO 7" csg from 10,955' to 11,275'. Circ hole clean.
DC: $2,134 TC: $149,713

7/7/89 POOH w/6-1/8" bit on 2-7/8" tbg. CO 7" csg from 11,275' to 11,496'. Tag sd. Press tst sqz perfs to 2000#. Bleed of 300#/5 mins. Hold constant. Circ hole clean.
DC: $2,019 TC: $151,733

7/10/89 Prep to perf. Circ hole clean w/420 BW. POOH w/6-1/8" bit on 2-7/8" tbg. RIH w/retr hd on 2-7/8" tbg & latch RBP. POOH w/RBP & retr hd.
DC: $3,750 TC: $155,483

7/11/89 Prep to acdz. Perf Wasatch form @ 11,757' to 13,240' (77 zones) w/3-1/8" csg guns, 120° phase, 3 SPF. RIH w/5" pkr on 2-7/8" tbg & set @ 11,744'. Press tst csg to 2000#. OK.
DC: $13,666 TC: $169,149

7/12/89 Place well on GL prod. Acdz Wasatch form w/10,000 gals 15% HCl + add w/348 - 1.1 BS + diverters. ATP 7900#, AIR 13.5 BPM, ISIP 1340#, 10 min 0#. 395 BLWTR. Good diversion. POOH w/5" pkr. RIH w/7" pkr & SN on 2-7/8" tbg w/9 GL mandrels. Set pkr @ 10,456'. ND BOPS. Land tbg w/20,000#.
DC: $23,805 TC: $192,954

7/13/89 Place well on GL prod. NU WH. RDSU. 15 BO, 775 BW, 26 MCF, 412 inj/13 hrs.

7/14/89 16 BO, 1140 BW, 213 MCF, 620 inj.

7/15/89 13 BO, 1251 BW, 97 MCF, 675 inj.

7/16/89 15 BO, 1176 BW, 122 MCF, 650 inj.

7/17/89 20 BO, 1294 BW, 125 MCF, 600 inj.

7/18/89 13 BO, 1307 BW, 122 MCF, 415 inj.

7/19/89 12 BO, 1350 BW, 126 MCF, 645 inj.

7/20/89 10 BO, 1210 BW, 95 MCF, 197 inj.

7/21/89 5 BO, 1280 BW, 104 MCF, 205 inj.

7/22/89 4 BO, 1203 BW, 75 MCF, 220 inj.

7/23/89 5 BO, 1285 BW, 88 MCF, 208 inj.

7/24/89 0 BO, 0 BW, 0 MCF, 0 inj.

7/25/89 0 BO, 0 BW, 0 MCF, 0 inj.

7/26/89 1 BO, 307 BW, 0 MCF, 295 inj.

7/27/89 5 BO, 320 BW, 24 MCF, 323 inj.

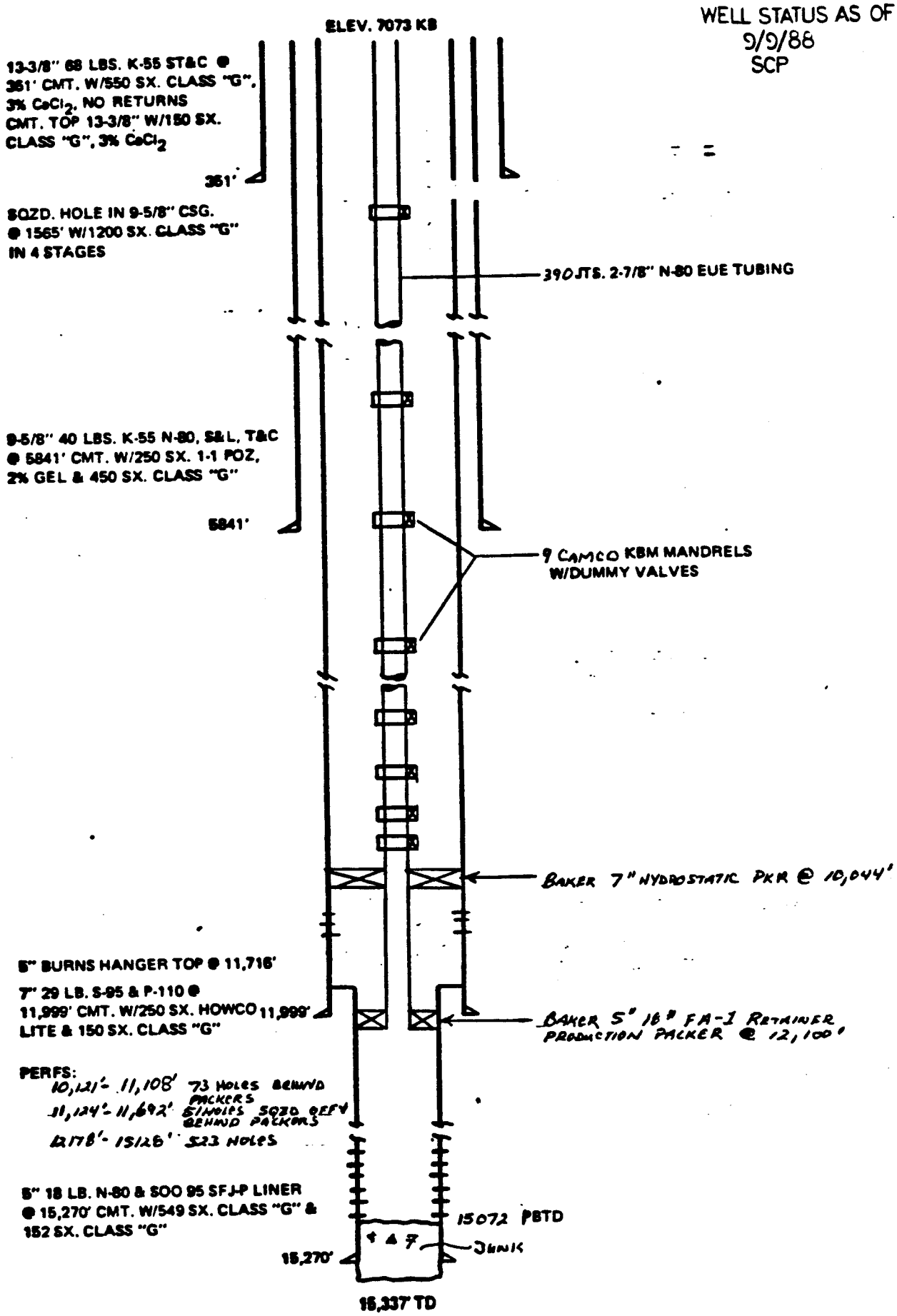
7/28/89 5 BO, 460 BW, 25 MCF, 295 inj.

7/29/89 3 BO, 510 BW, 20 MCF, 175 inj.

Shut well in. Drop from report pending evaluation.

DUNCAN TEW 1-985

WELL STATUS AS OF
9/9/88
SCP



FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.: Patented

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
OCT 27 1989
DIVISION OF OIL, GAS & MINING

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: ANR Production Company

8. FARM OR LEASE NAME: Tew

3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749

9. WELL NO.: 1-9B5

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface: 2334' FNL & 1201' FEL
At proposed prod. zone:

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 9, T2S-R5W

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
43-013-30121	7047' GL	Duchesne	Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[X]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			
(Other)				(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

See attached procedure

OIL AND GAS
DRN
JRB ✓
GLH
DTS
SLS
2-TAS
3. MICROFILM ✓
4. FILE

18. I hereby certify that the foregoing is true and correct

SIGNED Brenda W. Swank (Brenda W. Swank) TITLE Regulatory Analyst DATE October 24, 1989

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See attachment.

(3/89) See Instructions On Reverse Side

11-9-89
By: John R. Baza

PLUG AND ABANDONMENT

DUNCAN TEW #1-9B5

Section 9, T2S, R5W
Altamont Field
Duchesne County, Utah

September 20, 1989

WELL DATA

Location:	SE/4 NE/4
Elevation:	7047' GL, 7073' KB
Total Depth:	15,337'
PBTD:	15,072'
Casing:	13-3/8" 68# K-55 ST&C @ 351' 9-5/8" 40# K-55 & N-80 S&L, TOC @ 5841' 7" 29# S-95 & P-110 @ 11,999' 5" 18# N-80 & SOO 95 SFJ-P set from 11,716' to 15,270' Burns Liner Hanger @ 11,999'
Tubing:	2-7/8" EUE 6.5# N-80 to 10,456'
Packers:	MSOT 7" 32-A @ 10,456'
Artificial Lift:	Gas Lift w/Mandrels

Tubular Data:

Description	ID	Drift	Capacity (B/F)	Burst (PSI)	Collapse (PSI)
9-5/8" 40# N-80	8.835"	8.679"	0.0758	5750	3090
9-5/8" 40# K-55	8.835	8.679"	0.0758	3950	2570
7" 29# S-95	6.184"	6.059"	0.0371	9690	9200
7" 29# P-110	6.184"	6.059"	0.0371	11,220	8510
5" 18# N-80	4.276"	4.151"	0.0177	10,140	10,490
5" 18# SOO 95	4.276"	4.151"	0.0177	12,040	12,010
2-7/8" 6.5# N-80	2.441"	2.347"	0.00579	10,570	11,160

Perforation and Treatment History

October 1972:	Perf 13,156'-15,127' (47 holes, 1 SPF). Acidize with 26,000 gals 15% HCl.
October 1974:	Perf 13,156'-15,128' (95 holes, 1 SPF). Acidize 13,156' to 15,128' with 30,400 gals 15% HCl.
June 1975:	Initiate gas lift.
January 1977:	Set CIBP above Wasatch @ 11,698'. Perf Upper Wasatch and Green River 10,121'-11,692' (124 holes, 1 SPF). Acidize 10,121'-11,692' with 23,000 gals 15% HCl.
March 1977:	Cement squeeze perfs 11,124'-11,692' (51 holes) w/200 sxs.
August 1977:	Swab test 10,559'-10,919'; 11,006'-11,023'; 10,085'-10,545'.
August 1981:	Perf 13,351'-15,112' (273 holes, 3 SPF). Acidize 13,361'-15,128' (412 holes) with 35,300 gals 7-1/2% HCl. Perf 12,178'-13,245' (108 holes, 3 SPF). Acidize with 24,000 gals 7-1/2% HCl. Install straddle packers across Green River from 10,044' to 12,100'.

May 1989: Cmt sqz perfs 10,121'-11,483' (100 holes). Plug off 398 holes from 13,285' to 13,480'. Perf Wasatch from 11,757' to 13,080', 3 SPF, 231 holes. Acidize 11,757' to 13,245' (335 holes) w/10,000 gals 15% HCl.

Present Status: SI uneconomical

PROCEDURE

1. MIRU service rig. Kill well. NU BOPE and POOH w/2-7/8" tbg and gas lift equipment.
2. PU 7" 29# cmt retainer and RIH w/2-7/8" tbg. Set retainer at +/-10,000'. Circ hole clean. Pump 50 sxs cmt below retainer and spot 25 sxs cmt on top.
3. Spot 70 sxs cement plug (330') 5610' to 5940'.
4. Spot 50 sxs cement plug from 200' to surface.
5. Cut off 7", 9-5/8", and 13-3/8" csg 5' below ground.
6. Run 1" pipe and cement 7" x 9-5/8" and 9-5/8" x 13-3/8" annulus from 200' to surface (approximately 100 sxs total).
7. Set dry hole marker w/necessary inscription.

SCP:cam

UTAH DIVISION OF OIL, GAS AND MINING
CONDITIONS OF APPROVAL FOR WELL PLUGGING AND ABANDONMENT

ANR Production Company
Tew #1-9B5 Well
Section 9, T. 2S, R. 5W
Duchesne County, Utah
November 9, 1989

Reference document: Sundry notice dated October 24, 1989.

1. The operator shall notify the division at least 24 hours prior to commencing plugging operations to allow witnessing by a division representative.

2. Step 6 shall be modified to allow for pumping cement into the casing annulus from the surface without using 1" pipe. This is the procedure used by the field crews working the wells and the division has approved such modifications in the past.

OI58/114

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: ANR

WELLNAME: TEW 1-9B5 API# 43-013-30121

SECTION: 9 TWP: 2S RANGE: 5W

INSPECTOR: GARY GARNER TIME: 11:30 AM DATE: 1/16/90

REPRESENTATIVE: MARVIN BOZARTH PUSHER: GLEN FARRER

OPERATIONS: PLUGGING

SPUD DATE: DEPTH: 15,337

DRILLING AND COMPLETIONS:

____ APD	____ WELL SIGN	____ SANITATION
____ BOPE	____ BLOOIE LINE	____ H2S
____ VENTED/FLARED	____ RESERVE PIT	____ FLARE PIT
____ BURN PIT	____ HOUSEKEEPING	

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
CEMENT RETAINER + 75 SACKS ON TOP	10,000 - 9560
440 BALANCED PLUG CLASS G.	5940 - 5500
200 FT CMT PLUG CLASS G	200 → SURFACE

PLUGS TESTED: ✓ HOW PRESSURED WOC

MARKER: ____ SURFACE ✓ PLATE

RECLAMATION:

____ CONTOUR	____ RIP	✓ REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS:

PROGNOSIS CALLED FOR 50 SKS BELOW RETAINER + 25 SKS ABOVE - RETAINER WOULDNT HOLD - DUMPED ALL CEMENT 75 SKS ON TOP -

APPROVED BY HOW DATE

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

FEB 28 1990

DIVISION OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION & SERIAL NO.	Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
1. OIL WELL [X] GAS WELL [ ] OTHER	7. UNIT AGREEMENT NAME: N/A
2. NAME OF OPERATOR: ANR Production Company	8. FARM OR LEASE NAME: Tew
3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749	9. WELL NO.: 1-9B5
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 2334' FNL & 1201' FEL; At proposed prod. zone	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 9, T2S-R5W
14. API NO.: 43-013-30121	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 7047' GL
12. COUNTY: Duchesne	13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON	[ ]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]				
(Other)				(Other)			

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION January 13, 1990

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

See attached chronological report to plug and abandon the referenced well.

	SLS
1-TAS	
2- MICROFILM	✓
3- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED Timothy F. Scuba TITLE Administrative Manager DATE 2-20-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (P&A)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.1842% ANR AFE: 62882
TD: 15,337' PBTD: 13,260'
CSG: 5" LINER @ 11,716'-15,270'
PERFS: 11,757'-13,245' (WASATCH)
CWC(M$): $44.6

1/12/90 POOH w/GLE. MIRU.
DC: $1,270 TC: $1,270

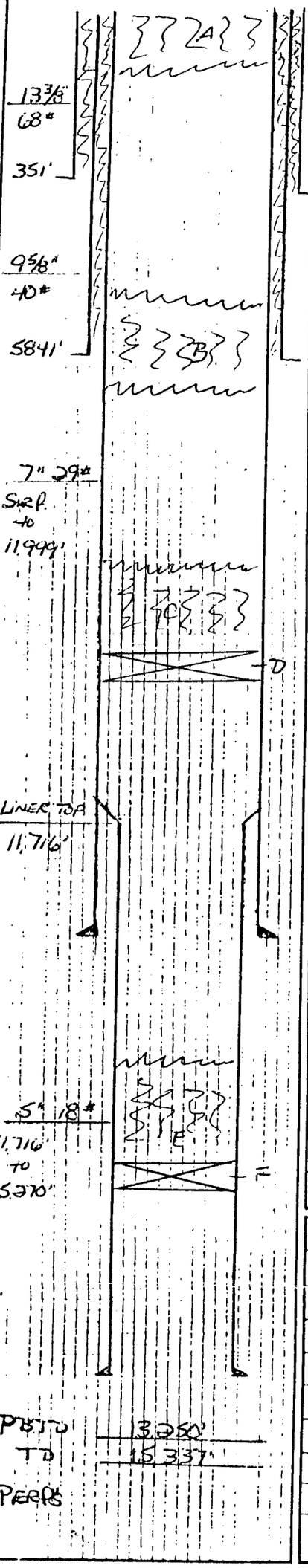
1/15/90 Fin POOH w/GLE. SITP 500#. Load hole w/300 BW. ND WH. NU BOP's. Start POOH w/GLE.
DC: $2,750 TC: $4,020

1/16/90 Spot cmt plugs. Fin POOH w/GLE. RIH w/7" CICR & set @ 10,000'. Circ hole clean. Press tst 7" csg to 2000#. OK.
DC: $5,145 TC: $9,165

1/17/90 Spot cmt plugs. Spot 75 sx Class "G" cmt plug on CICR from 10,000' to 9560'. Spot 70 sxs Class "G" cmt plug from 5940'-5500'.
DC: $3,025 TC: $12,190

1/18/90 ND BOP's. Fill 9-5/8" x 7" annulus w/cmt. Spot 50 sxs Class "G" plug from 200' - sfc. Cut 7" csg off. Weld on plate. Install DHM. P&A completed @ 3:00 p.m., 1/18/90. Final report.
DC: $11,231 TC: $23,421

WELL PROFILE



OPERATOR Coastal / A.N.R.

WELL # Duncan Trew # 1-9B5

FIELD Altamont / Bluebell

COUNTY Duchesne

STATE Utah

DATE ~~January~~ 18, 1990

☐ NEW COMPLETION ☐ WORKOVER Plug & Abandon

	Casing	Liner	Tubing
SIZE	7"	5"	
WEIGHT	29#	18#	
GRADE	S-95 P-110	N-80 S00-95	
THREAD			
DEPTH	Surf 11,949'	11,716' 15,270'	

ITEM NO.	EQUIPMENT AND SERVICES
A	200' +- Cmt. plug Surf to 200'
B	440' Cmt. plug 5940 - 5500'
C	440' Cmt plug 9560' - 10,000'
D	7" Mt. States Cmt. Retainer set @ 10,000'
E	224' Cmt. plug 13,250' to 13,474'
F	5" Mt. States C.I.B.P. Set @ 13,474'
	Perf's 10,121' - 11,483' Squeezed off 108 holes
	11,757' - 13,245' 356 holes Open
	13,260' - 15,126' Plugged or Squeezed off 398 holes
	Tot Perf's 10,121' - 15,126' 862 holes

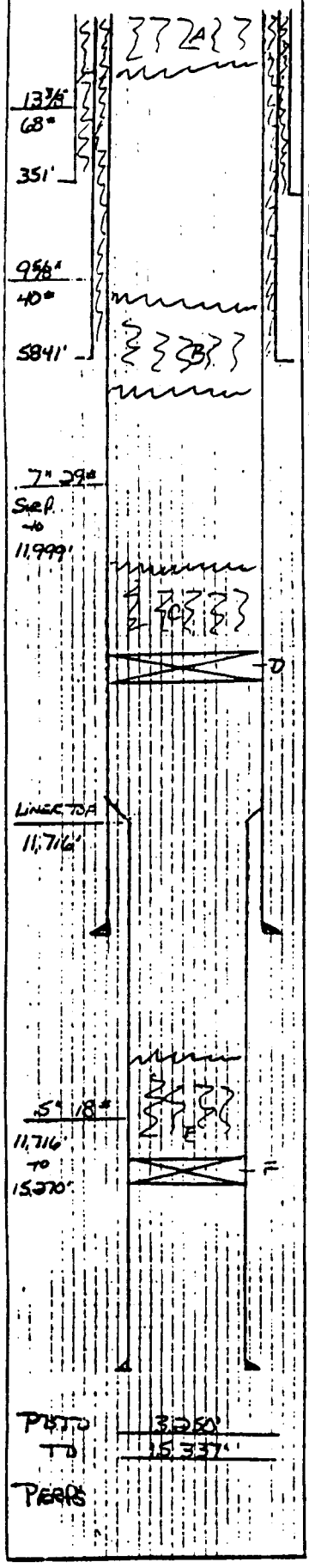
COMMENTS: Set 7" Cmt. Retainer @ 10,000' - Having Trouble w/ Valve in Cmt. Ret. - Pressure Test Ret. & Csg. to 2000# - Held - Spot 75 Sx plug above Ret. - up to 9560' - Pull up Set 440' plug 5940' - up to 5500' - (1-17-90) - Cmt. Tops of 7" - 9 5/8" & 13 3/8" Csg. (1-18-90) - Cmt at Surface - Weld plate on 5" Csg. -

PREPARED BY	OFFICE	PHONE
Glenn O. Faerber	Western Rig # 25	646-4705

Western Oil Well Service Co.

Oil Well Servicing
Completion Rigs
and Equipment

WELL PROFILE



OPERATOR Coastal / A.N.R.
WELL # Duncan Trust # 1-9B5
FIELD Altamont / Bluebell
COUNTY Duchesne
STATE Utah
DATE January 18, 1990
☐ NEW COMPLETION ☐ WORKOVER Plug & Abandon

	Casing	Liner	Tubing
SIZE	7"	5"	
WEIGHT	29#	18#	
GRADE	S-95 P-110	N-80 S00-95	
THREAD			
DEPTH	Set @ 11,999'	11,716' to Set @ 15,270'	

ITEM NO.	EQUIPMENT AND SERVICES
A	200' +- Cmt. Plug Surf to 200'
B	440' Cmt. Plug 5940 - 5500'
C	440' Cmt Plug 9560' - 10,000'
D	7" M. Stokes Cmt. Retainer Set @ 10,000'
E	224' Cmt Plug 13,250' to 13,474'
F	5" M. Stokes C.I.B.P. Set @ 13,474'
	Perfs 10,121' - 11,483' Squeezed off 108 Holes
	11,757' - 13,245' 356 Holes Open
	13,260' - 15,126' Plugged or Squeezed off 398 Holes
	TH Perfs 10,121' - 15,126' 862 Holes

COMMENTS: Set 7" Cmt. Retainer @ 10,000' - Having Trouble w/ Valve in Cmt. Ret. - Pressure Test Ret. & Csg. to 2000# Held - Spot 75 sk Plug Above Ret. - up to 9560' - Pull up & Set 440' plug 5940' - up to 5500' - (1-17-90) - Cmt Top of 7" - 9⅝" & 13⅜" Csg. (1-18-90) - Cmt at Surface in Weld Plate on 7" Csg. -

GARY GARNER

PREPARED BY	OFFICE	PHONE
Glenn O. Farrer	Western Rig # 25	646-4705

Oil Well Servicing Completion Rigs

CUSTOMER COPY

Due 10/10/94

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
841886	01/18/

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
TEW 1-9S5	DUCHESNE	UT	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
VERNAL, UT.	WESTERN	PLUG TO ABANDON	01/18/1

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO
001501	D. FARRER		N	COMPANY TRUCK	S9

A N R PRODUCTION CO.
BOX 129
ALTAMONT, UT 84001

DIRECT CORRESPONDENCE TO:
410 17TH ST.
SUITE 900
DENVER, CO 80202-0000

DUPLICATE

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - ROCKY MOUNTAIN					
000-117	MILEAGE	65	MI	2.20	143.0
		1	UNT		
009-134	CEMENT SQUEEZE	10000	FT	3,370.00	3,370.0
009-019		1	UNT		
200-007	CREW MILEAGE	65	MI	.85	55.2
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	210	FT	560.00	560.0
		1	UNT		
507-595	HR-S	7	LB	2.55	17.8
504-043	PREMIUM CEMENT	195	SK	8.02	1,563.9
500-341	CEMENTING MATERIALS RETURNED	549.90	TMI	.75	412.4
500-207	CEMENTING MATERIALS RETURNED	180	CFT	.95	171.0
500-207	BULK SERVICE CHARGE	375	CFT	.95	356.2
500-306	MILEAGE	1143.85	TMI	.75	857.8
	INVOICE SUBTOTAL				7,509.0
	DISCOUNT-(BID)				1,126.3
	INVOICE BID AMOUNT				6,382.7
	*-UTAH STATE SALES TAX				143.6
	*-VERNAL CITY SALES TAX				28.7

1-30-95

94 1499 0024 000 000 62882 789 8770 655513

SCP 2/8/95

020790 INVOICE TOTAL - PLEASE PAY THIS AMOUNT $6,353.1

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND

FORM 1900-R3

LAWRENCE T. HARTNETT, P.E.
Petroleum Engineer
P.O. Box 140519
Edgewater, Colorado 80214-0519
HOME: (303) 238-2342 FAX: (303) 238-3816

October 25, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Utah Division of Oil, Gas, & Mining
3 Triad Center, #350
Salt Lake City, Ut 84180-1203

RE: Notice of Permit Application for Water Disposal Well. Coastal Oil & Gas Tew #1-9B5. SE NE Section 9, T2S - R5W. Duchesne County, Utah.

Dear Sirs,

This letter is to advise you that Coastal Oil and Gas Corporation is requesting approval from the U.S. Environmental Protection Agency to inject water produced from Altamont Field into the Tew #1-9B5.

You are herein provided with a copy of the submitted permit for this well. This permit contains a section for the State of Utah which includes a filled out permit UIC Form 1. Should you have any questions or comments please do not hesitate to contact me or the U.S. Environmental Protection Agency.

Sincerely,

Lawrence T. Hartnett, P.E.
Consultant

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078
Telephone (801) 789-4327

EXHIBIT - D

WATER ANALYSIS REPORT

Report for: John Zelliti
cc for: Steve Hanberg
cc for:
cc for:
Company: Balcron Oil
Address: P. O. Box 21017 Billings Montana 59104
Service Engineer: Mike Angus
Date Sampled: 9-11-92
Date Reported: 9-11-92
Location: East Red Wash 1-6
County: Uintah
State: Utah
Submitted by: Mike Angus
Other Info: - Produced Water Sample From The Green River Formation.

Chemical Component	mg per liter	meq per liter
Chloride (Cl) =	8200.	231.3
Iron (Fe) =	0.7	
Total Hardness (CaCO3) =	200.	
Calcium (Ca) =	50.	2.5
Magnesium (Mg) =	19.	1.5
Bicarbonate (HCO3) =	1415.	23.2
Carbonate (CO3) =	96.	3.2
Sulfate (SO4) =	1.	0.0
Hydrogen Sulfide (H2S) =	94	
Barium (Ba) =	38.6	
Sodium (Na) (calc.) =	5820.	253.1
Specific Gravity =	1.016	
Density (lb/gal) =	8.46	
pH (by meter) =	8.2	
Dissolved CO2 (mg/l) =	0.	

OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

Scaling Index at 68 degrees F = +0.72
Scaling Index at 86 degrees F = +0.96
Scaling Index at 122 degrees F = +1.37
Scaling Index at 158 degrees F = +1.88

Total dissolved solids (calculated) = 15638. mg per liter

Reported by William Curry Lab Technician
William Curry

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: Coastal Oil & Gas Corp. Well: Tew 1-9B5

Location: section 9 township T2S range R5W

API #: 43-013-30121 Well Type: disp. X enhanced recov. ___

If enhanced recovery has project been approved by the Board ? N/A

Lease Type: Fee Surface Ownership: Fee

Field: Altamont Bluebell Unit: ___ Indian Country: Y

UIC Form 1: Yes Plat: Yes Wells in AOR: 1 PA

Logs Available: No logs available from upper zone. Bond Log: No.

Casing Program: 13 3/8 @ 351', 9 5/8" @ 5841', 7" @ 11,994

Integrity Test: To be run at conversion.

Injection Fluid: Produced water from Ave wells.

Geologic Information: Injection zone Lower Vinta, Upper Green River TGR3 = 10,800

Analyses of Injection Fluid: Yes Formation Fluid: No Compat. No

Fracture Gradient Information: .733 assumed Parting Pressure ___
Parting press. at 3700' 1100 psi

Affidavit of Notice to Owners: Y (Surface owners only)

Fresh Water Aquifers in Area: Sands & gravels in Vinta. Quaternary Alluvium

Depth Base of Moderately Saline Water: 7748 ft ?

Confining Interval: Silts clays & Limes of Vinta & Green River formations.

Reviewer: D James Date: 11/3/93

Comments & Recommendation: ~~Should submit~~ agreed to submit copies of CBL, gamma ray logs from upper zone of injection. Need to have them submitted to determine TDS of zone. May be fresh water zone.

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

November 16, 1993

Lawrence T. Hartnett
P.O. Box 140519
Edgewater, Colorado 80214-0519

Re: Application to Convert the TEW 1-9B5 Well Section 9, Township 2 South, Range 5 West, Duchesne County, Utah to a Salt Water Disposal Well

Dear Mr. ~~Hartnett~~ Larry:

This letter is to advise you that the application to convert the above mentioned well to a salt water disposal well has been reviewed.

In general the application has been found technically complete, however the following actions are necessary to complete the application process and to facilitate a public notice for the well.

1. A list of all operators or owners within a one-half mile radius must be provided. This is in addition to the list of surface owners which was previously supplied.

2. An affidavit certifying that a copy of the application has been provided to said operators or owners within the one-half mile radius.

If you have any questions please call me at (801)538-5340.

Sincerely,

Dan Jarvis
UIC Geologist

ldc
WUI171

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

December 15, 1993

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Notice of Agency Action - Cause Nos. UIC-140, UIC-142, and UIC-143

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

December 15, 1993

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Gentlemen:

Re: Notice of Agency Action - Cause Nos. UIC-140 and UIC-142

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168

BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION OF COASTAL OIL & GAS CORPORATION FOR ADMINISTRATIVE APPROVAL OF THE TEW 1-9B5 WELL LOCATED IN SECTION 9, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.M., DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL	:	NOTICE OF AGENCY ACTION CAUSE NO. UIC-140

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Coastal Oil & Gas Corporation for administrative approval of the TEW 1-9B5 Well, located in Section 9, Township 2 South, Range 5 West, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 3700 feet to 6400 feet (Lower Uinta, Upper Green River Formation) will be selectively perforated for water injection. The average injection pressure is estimated to be 500 psig and the estimated injection volume will be 10,000 barrels of water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of December, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

R.J. Firth
Associate Director

WUI101

Coastal Oil & Gas Corporation
TEW 1-9B5 Well
Cause No. UIC-140

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Coastal Oil & Gas Corporation
P.O. Box 749
600 17th Street, Suite 800-S
Denver, Colorado 80201

Lawrence Hartnett
P.O. Box 140519
Edgewater, Colorado 80214-0519

Tom Pike
U.S. Environmental Protection Agency
Region VIII
999 18th Street
Denver, Colorado 80202-2466

Lisa D. Clement
Administrative Secretary
December 15, 1993

LAWRENCE T. HARTNETT, P.E.
Petroleum Engineer
P.O. BOX 140519
EDGEWATER, COLORADO 80214-0519
303-238-2342
FAX 303-238-3816

December 13, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
ATTN: Dan Jarvis
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RE: Application to convert the TEW 1-9B5 well Section 9, Township 2 South, Range 5 West, Duchesne County, Utah to a Salt Water Disposal well

Dear Mr. Jarvis:

This letter is a follow up to our telephone conversion in regard to your letter of November 16, 1993.

Coastal Oil & Gas Corporation is the operator within a one-half mile radius of the TEW 1-9B5.

If you have any other questions, please call me at (303)238-2342. Thank you very much for all the help that you have given me with this permit.

Yours Truly,

Lawrence T. Hartnett, P.E.

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune (NA) DESERET S

CUSTOMER'S COPY

LEGAL ADVERTISING INVOICE

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV OF OIL, GAS & MINING 355 W NO TEMPLE, #350 SALT LAKE CITY, UT 84180	LE-5385340	12/22/93

FOR BILLING INFORMATION
CALL (801) 237-2822

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF AGENCY ACTIONCAUSE NO. UIC-140BEFOR FOR DIV OF OIL, GAS & MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS,DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCURATION IN UTAH,AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON DEC 21 1993

SIGNATURE

ATE 12/22/93

NOTICE OF AGENCY ACTION CAUSE NO. UIC-140 BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF COASTAL OIL & GAS CORPORATION FOR ADMINISTRATIVE APPROVAL OF THE TEW 1-9B5 WELL LOCATED IN SECTION 9, TOWNSHIP 2 SOUTH, RANGE 5 WEST, U.S.M., DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. If such protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 15th day of December, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
/s/ R. J. Firth
Associated Director
CH710140

ACCOUNT NAME			TELEPHONE
OF OIL, GAS & MINING			801-538-5340
SCHEDULE			AD NUMBER
21 1993			CH710140
ST. REF. NO.	CAPTION		MISC. CHARGES
# UIC-140	NOTICE OF AGENCY ACTIONCAUSE NO. UIC-140BEFOR		.00
SIZE	TIMES	RATE	AD CHARGE
LINES 1 COLUMN	1	1.64	118.08
ND PAYABLE ON RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE	118.08

THANK YOU FOR USING LEGAL ADVERTISING.

PLEASE RETURN THIS PORTION

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LEGAL ADVERTISING ADV06-NT

ACCOUNT NUMBER	AD NUMBER	BILLING DATE	PAY THIS AMOUNT
LE-5385340	CH710140	12/22/93	118.08

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SALT LAKE CITY, UTAH 84145-0838

MAKE CHECKS PAYABLE TO:
NEWSPAPER AGENCY CORPORATION

DIV OF OIL, GAS & MINING
355 W NO TEMPLE, #350
SALT LAKE CITY, UT 84180

COPY

0703106761014010000000000001180818142178721251211111111111122919

143 SOUTH MAIN ST.
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145
FED. TAX I.D. # 87-0217663

Newspaper Agency Corporation

The Salt Lake Tribune (NAC) DESERET S

CUSTOMER'S COPY

LEGAL ADVERTISING INVOICE

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV OF OIL, GAS & MINING 355 W NO TEMPLE, #350 SALT LAKE CITY, UT 84180	LE-5385340	12/22/93

FOR BILLING INFORMATION
CALL (801) 237-2822

AFFIDAVIT OF PUBLICATION

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PUBLISHED ON DEC 21 1993

SIGNATURE

DATE 12/22/93

ACCOUNT NAME			TELEPHONE
DIV OF OIL, GAS & MINING			801-538-5340
SCHEDULE			AD NUMBER
DEC 21 1993			CH710140
CUST. REF. NO.	CAPTION		MISC. CHARGES
CAUSE # UIC-140	NOTICE OF AGENCY ACTIONCAUSE NO. UIC-140BEFOR		.00
SIZE	TIMES	RATE	AD CHARGE
72 LINES 1 COLUMN	1	1.64	118.08
DUE AND PAYABLE ON RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE	118.08

THANK YOU FOR USING LEGAL ADVERTISING.

PLEASE RETURN THIS PORTION

WITH YOUR PAYMENT IN THE ENCLOSED ENVELOPE

LEGAL ADVERTISING ADV06-NT

ACCOUNT NUMBER	AD NUMBER	BILLING DATE	PAY THIS AMOUNT
LE-5385340	CH710140	12/22/93	118.08

LEGAL ADVERTISING

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NEWSPAPER AGENCY CORPORATION
P.O. BOX 45838
SALT LAKE CITY, UTAH 84145-0838

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DIV OF OIL, GAS & MINING
355 W NO TEMPLE, #350
SALT LAKE CITY, UT 84180

COPY

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Coastal Oil & Gas Corporation

UNDERGROUND
WATER DISPOSAL
APPLICATION

TEW #1-9B5

SE NE
2334' FNL and 1201' FEL
Section 9, T2S-R5W
Duchesne County, Utah

Patented Lease

API No. 43-013-30121

TEW #1-9B5
Table of Contents

TEW #1-9B5

List of Exhibits

Form Approved OMB No. 2040-0042

Form 4 UIC

EPA

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

UNDERGROUND INJECTION CONTROL PERMIT APPLICATION

(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)

EPA ID NUMBER

U

READ ATTACHED INSTRUCTIONS BEFORE STARTING

FOR OFFICIAL USE ONLY

Application approved mo day year	Date Received mo day year	Permit/Well Number	Comments

II. FACILITY NAME AND ADDRESS

Facility Name: TEW #1-9B5

Street Address: SE NE SECTION 9, T2S - R5W

City: DUCHESNE COUNTY | State: UT | ZIP Code:

III. OWNER/OPERATOR AND ADDRESS

Owner/Operator Name: COASTAL OIL & GAS CORPORATION

Street Address: MAIL-P.O. BOX 749 DENVER, CO 80201
600 17th STREET, SUITE 800-S

City: DENVER | State: CO | ZIP Code: 80202

IV. OWNERSHIP STATUS (Mark 'x')

☐ A. Federal ☐ B. State ☒ C. Private

☐ D. Public ☐ E. Other (Explain)

V. SIC CODES

1311

VI. WELL STATUS (Mark 'x')

☐ A. Operating | Date Started mo day year | ☒ B. Modification/Conversion | ☐ C. Proposed

VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required)

☒ A. Individual ☐ B. Area

Number of Existing wells	Number of Proposed wells	Name(s) of field(s) or project(s)

VIII. CLASS AND TYPE OF WELL (see reverse)

A. Class(es) (enter code(s))	B. Type(s) (enter code(s))	C. If class is "other" or type is code 'x,' explain	D. Number of wells per type (if area permit)
II	"D"		

IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT

X. INDIAN LANDS (Mark 'x')

☒ Yes ☐ No

C	A. Latitude Deg	Min	Sec	B. Longitude Deg	Min	Sec	Township	Range	Sec	¼ Sec	Feet from	Line	Feet from	Line
I							2S	5W	9	NE	2334	N	1201	E

XI. ATTACHMENTS

(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)

FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application:

XII. CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

A. Name and Title (Type or Print)	B. Phone No. (Area Code and No.)
R.L. BARTLEY VICE PRESIDENT	303-572-1121

C. Signature

D. Date Signed: 10/22/93

EPA Form 7520-6 (12-84) Page 1 of 5

XI. ATTACHMENTS

A. **AREA OF REVIEW METHODS AND NOTIFICATION OF LAND OWNERS**

The area of review is a fixed radius of one-quarter (1/4) mile from the well bore. The property owner in Section 9 is the William Frederick Tew Family Limited Partnership, Star Route 120, Talmage, Ut 84073. The property owner in Section 10 is also the William Frederick Tew Family Partnership. Coastal has a letter agreement with the Tews setting up the disposal well. See Exhibit "A" for a copy of the letter. The Utah Division of Oil, Gas & Mining has requested Coastal notify surface owners within 1/2 mile radius of the injection well. This would add the Lytel et al group, 47 Corte Mesa Drive, San Rafael, Ca 94901. See Exhibit "A2". The Uintah & Ouray Agency, Ft. Duchesne, UT 84026 will also receive a copy of this permit.

See Exhibit "A1" for a copy of the correspondence to all parties and Exhibit "A3" for a copy of the affidavit of mailing.

B. **MAPS OF WELLS AND AREA OF REVIEW**

Topographic and well location maps are submitted as Exhibit "B1" and "B2".

C. **CORRECTIVE ACTION PLAN AND WELL DATA**

There are no other wells within the area of review.

E. **NAME AND DEPTH OF USDWs**

There are no known water wells within this Area of Review serving either livestock or households. The formations above the injection zone may have possible USDW zones (See Technical Publication No. 92, State of Utah, Department of Natural Resources). There have not been any tests run to measure what the TDS of the Uinta and Upper Green River (TGR 1) zones are in this well. See Exhibit "E" for logs.

G. **GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES**

The zones proposed to inject into are the Uinta and Upper Green River (TGR 1). The part of the Uinta zone to be injected into is approximately 2100' thick from 3700' to 5800'. The part of the Upper Green River (TGR 1) zone to be injected into is approximately 500' thick from 5900' to 6400'. The Uinta Formation goes to the surface. The zone below Upper Green River Formation is the TGR 3.

All these zones including the lower confining zone are made up of shale and siltstone with interbeded sand lenses. The fracture gradient of the injection zones have not been determined, so a gradient of .733 is assumed. The TDS content may range from 64,000 ppm to 68,000 ppm. See Exhibit "G".

H. **OPERATING DATA**

1. a. Average daily injection rate - 10,000 BPD
   b. Maximum daily injection rate - 15,000 BPD
   c. Total volume of fluid to be injected - 73,000,000 BBls

2. a. Average injection pressure - 500 psi
   b. Maximum injection pressure - 1100 psi ((.733-.433)*3700)

3. Nature of annulus fluid - fresh water mixed with corrosion inhibitor or "packer fluid".

4. Coastal owns and operates interest in certain wells in the Altamont Field. The water to be injected into the Tew #1-9B5 will come from wells in the Altamont Field. A list of the source wells is in Exhibit "H".

5. A sampling of different wells in the field have had a water analysis run. See Exhibit "H1".

J. **STIMULATION PROGRAM**

The Uinta and Upper Green River zones will be acidized with 16,000 gallons of 15% HCL, rock salt, and BAF (diverter) in 4 stages. All acid to contain inhibitor, friction reducer, iron sequestering agent, and surfactant. Pump at max possible rate (12-15 BPM), not to exceed 5000 psi. Hold 2000 psi on casing during job. See Exhibit "M" for more details.

K. **INJECTION PROCEDURES**

The injected fluid will be delivered to the disposal site by pipeline. The proposed injection procedure will be with two Triplex pumps pumping down tubing into the injection zone. There will be 3-1000 bbl tanks, 1-500 bbl skim tank, and 1-500 bbl clear water tank on location that will be feeding the triplex pumps. There will be level controllers on the storage tanks to shut down the pumps when the tanks run out of fluid. There will be a pressure controller on the pumps to shut them down if the pressure exceeds the maximum injection pressure.

L. **CONSTRUCTION PROCEDURES**

To improve the cement bonding of the injection zone and the zones above and below the injection zone, a cement bond log with gamma ray will be run from 9560' to surface with 2000 psi held on the 7" casing. Any zones that need to be squeezed will be squeezed. See Exhibit "M".

M. **CONSTRUCTION DETAILS**

The Tew #1-9B5 was drilled to a depth of 15,337' with a 17 1/2" hole from surface to 351', a 12 1/4" hole from 351' to 5841', 8 3/4" hole from 5841' to 11,999', and 6 1/8 hole from 11,999' to TD. 13 3/8" 68# casing set to 351', 9 5/8" 40# casing set to 5841', 7" 29# casing set to 11,999', and 5" 18# casing was set as a liner from 11,716' to 15,270'. Plug back depth was 15,072'. The 13 3/8" casing was cemented with 700 sacks, the 9 5/8" casing was cemented with 1300 sacks, the 7" casing was cemented with 400 sacks, and the liner was cemented with 701 sacks of cement. Cement top of the 13 3/8" casing is at surface, the cement top of the 9 5/8" casing is at surface, the cement top of the 7" casing is at 9961', and the cement top of the 5" liner is at top of the liner. The well has been squeezed at 1565' with 1200 sacks, squeezed at 6004' to 6035' with 850 sacks, and squeezed at 10,121' to 11,483' with 300 sacks. The well has been perforated from 13,260' to 15,128', 11,757' to 13,245', and 10,121' to 11,483'. The well has been plugged and abandoned. The ground level elevation is 7047'. See Exhibit "M1" for original Completion Report, Exhibit "M2" for Chronological History since 5/89, and Exhibit "M3" for present well schematic. To set the well up to be an injection well the following work will be done. Drill out cement plugs. Test casing and run cement bond log from 9560' to surface. Do squeeze jobs as needed. Run sonic log to check injection zones. Perforate Uinta Formation from 3700' to 5800' with 4 SPF with 4" casing gun. Perforate Upper Green River Formation from 5900' to 6400' with 4 SPF with 4" casing gun. Swab zones for water samples. Acidize zones. Run packer and tubing. Circulate treated, non-corrosive production water for packer fluid. Set packer at 3600'. Run MIT test on tubing annulus. Set well up to inject produced water. See Exhibit "M4" for injection well schematic.

O. PLANS FOR WELL FAILURES

In the event that the well is shut-in, whether manually or automatically, Coastal will take the following steps.

1. Determine the nature and extent of the failure causing the shut in.

2. In the event that the well can not continue to operate as stipulated by the UIC Permit, the well will be shut-in temporarily, unless permission is obtained from the EPA to continue.

3. An EPA representative will be contacted to discuss the reason for the failure and further steps to be taken.

4. If shut-in is imminent, the following step will be taken:

   a. Divert produced water intended for the Tew #1-9B5 well to other authorized facilities.

P. MONITORING PROGRAM

Coastal will monitor water quality of the injected fluids on an annual basis. Analysis will include total dissolved solids, PH, specific conductivity and specific gravity. Any time there is a change in the source of injection fluid, a new water quality analysis will be done and submitted to EPA.

Q. PLUGGING AND ABANDONMENT PLAN

The plugging and abandonment plan for this well includes cement in the 7 inch casing to assure protection of all USDWs and retention of fluids in formations in which they are contained in the event that after abandonment casing should fail at some point.

The specific plans are as follows:

Plug #1 Within the casing, set a cement retainer above the perforations at 3600' and squeeze with 500 sacks class "G" cement. Unsting from retainer and dump any excess cement on top of retainer (Minimum of 10 sxs).

Plug #2 Place plug at 200'. Cement to surface with 30 sacks class "G" cement filling the 7" casing.

See Exhibit "Q1" for EPA form 7520-14.

See Exhibit "Q2" for Plugging and Abandonment Schematic.

R. **NECESSARY RESOURCES**

Coastal has a Financial Responsibility letter on file with the EPA. This well is to be added to that responsibility.

S. **AQUIFER EXEMPTIONS**

The water in the Uinta and Upper Green River (TGR 1) Formations are expected to have total dissolved solids in excess of 10,000 parts per million; therefore no exemption of that reservoir will be necessary.

U. **DESCRIPTION OF BUSINESS**

Coastal is an exploration and production company of hydrocarbons.

V. **STATE OF UTAH PERMIT**

See Exhibit "V" for UIC FORM 1. See Exhibit "V2" for map of wells within 1/2 mile. See Exhibit "V1" for information on well with 1/2 mile. This well has been plugged and abandoned.

EXHIBIT "A"

Coastal
The Energy People

RECEIVED
APR 26 1993
EXPLOITATION-DEN

March 15, 1993

Mr. William Fred Tew &
Mrs. Sandra W. Tew
Talmage, Utah 84073

RE: Produced Water - Disposal
Re-Entry Tew 1-9B5
Sec. 9 T2S,R5W
Duchesne County, UT

Dear Mr. & Mrs. Tew:

We have secured management permission to enter into an agreement, even though the final project to convert the subject well has not been approved. Therefore please accept the following as a binding agreement that when executed by you will start the agreed upon consideration of $625.00 per month. In the event the conversion project as contemplated herein is not approved we reserve the right to notify you thirty days in advance and terminate this agreement with no further consequences accruing.

On this 11th day of March 1993, William Fred Tew and Sandra W. Tew (hereinafter referred to as Tews) for and in consideration of the sum of $625.00 Six Hundred twenty five dollars, due and payable by ANR Production Company (hereinafter referred to as ANR) upon ANR's receipt of a fully executed copy of this agreement on or before April 20, 1993, do hereby grant assign and convey unto ANR a Water Disposal Agreement which will include the following terms and such others as the parties may mutually agree:

1) ANR will be granted the exclusive right to enter the abandoned well bore of the Tew #1-9B5 located in the NE/4 of Section 9 Township 2 South, Range 5 West Duchesne County, Utah and convert same to dispose of produced water from the Altamont-Bluebell Field. This grant will include such land and rights-of-way necessary to implement the project, including but not limited to existing road and pipeline right of ways, use of electrical and public services as are necessary;

2) ANR will secure a valid permit from the state of Utah, and will assume **full liability** for its operations of a disposal facility, further ANR shall hold the Tews harmless for any of its operations related thereto;

3) The majority of the water to be disposed of will be piped to location instead of being transported in by truck;

4) ANR will properly restore the premises as a prudent operator;

5) The agreement will be for a term of 20 years, but can be terminated by ANR upon 30-day written notice to the Tews at the address shown above.

6) The consideration to the Tew's for the forgoing agreement shall be the sum of $625.00 per month. The initial $625.00 payment shall include settlement of full damages for the actual conversion and the pipeline installation to the Chevron line, north of the location provided that such operation is conducted in a prudent manner and and appropriate cleanup is performed. Any damages subsequent to the above named operations under this agreement shall be negotiated separately.

7) Upon completion of the conversion and the installation of the necessary pipelines, ANR will prepare a recordable Grant and Easement specifying exactly which of the Tew lands that it is using under the agreement. The Tews agree to execute same and ANR will cause it to be recorded.

Please review this Agreement carefully and if it meets with your agreement and acceptance, please sign and return the attached copy in the envelope provided. Again thank you for your consideration in this matter.

Yours very truly

Jon R. Nelsen
District Land Manager

Agreed and accepted this 12th day of April, 1993

William Fred Tew

Sandra W. Tew

William Fred Tew

Sandra W. Tew

EXHIBIT "A1"

LAWRENCE T. HARTNETT, P.E.
Petroleum Engineer
P.O. Box 140519
Edgewater, Colorado 80214-0519
HOME: (303) 238-2342 FAX: (303) 238-3816

October 25, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert Burchfield Lytel
Richard Edward Lytel
Alice Margaret Lytel
William P. Huston
Jane H. Henry
47 Corte Mesa Drive
San Rafael, Ca 94901

RE: Notice of Permit Application for Water Disposal Well. Coastal Oil & Gas Tew #1-9B5. SE NE Section 9, T2S - R5W. Duchesne County, Utah.

Dear Sirs,

This letter is to advise you that Coastal Oil and Gas Corporation is requesting approval from the U.S. Environmental Protection Agency to inject water produced from Altamont Field into the Tew #1-9B5.

You are herein provided with a copy of the submitted permit for this well. Should you have any questions or comments please do not hesitate to contact me or the U.S. Environmental Protection Agency.

Sincerely,

Lawrence T. Hartnett, P.E.
Consultant

LAWRENCE T. HARTNETT, P.E.
Petroleum Engineer
P.O. Box 140519
Edgewater, Colorado 80214-0519
HOME: (303) 238-2342 FAX: (303) 238-3816

October 25, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

William Frederick Tew Family Limited Partnership
Star Route 120
Talmage, UT 84073

RE: Notice of Permit Application for Water Disposal Well. Coastal Oil & Gas Tew #1-9B5. SE NE Section 9, T2S - R5W. Duchesne County, Utah.

Dear Sirs,

This letter is to advise you that Coastal Oil and Gas Corporation is requesting approval from the U.S. Environmental Protection Agency to inject water produced from Altamont Field into the Tew #1-9B5.

You are herein provided with a copy of the submitted permit for this well. Should you have any questions or comments please do not hesitate to contact me or the U.S. Environmental Protection Agency.

Sincerely,

Lawrence T. Hartnett, P.E.
Consultant

LAWRENCE T. HARTNETT, P.E.
Petroleum Engineer
P.O. Box 140519
Edgewater, Colorado 80214-0519
HOME: (303) 238-2342 FAX: (303) 238-3816

October 25, 1993

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Uintah & Ouray Agency
Ft. Duchesne, UT 84026

RE: Notice of Permit Application for Water Disposal Well. Coastal Oil & Gas Tew #1-9B5. SE NE Section 9, T2S - R5W. Duchesne County, Utah.

Dear Sirs,

This letter is to advise you that Coastal Oil and Gas Corporation is requesting approval from the U.S. Environmental Protection Agency to inject water produced from Altamont Field into the Tew #1-9B5.

You are herein provided with a copy of the submitted permit for this well. Should you have any questions or comments please do not hesitate to contact me or the U.S. Environmental Protection Agency.

Sincerely,

Lawrence T. Hartnett, P.E.
Consultant

EXHIBIT "A2"

SURFACE OWNERSHIP

COASTAL OIL & GAS CORPORATION

TEW #1-9B5

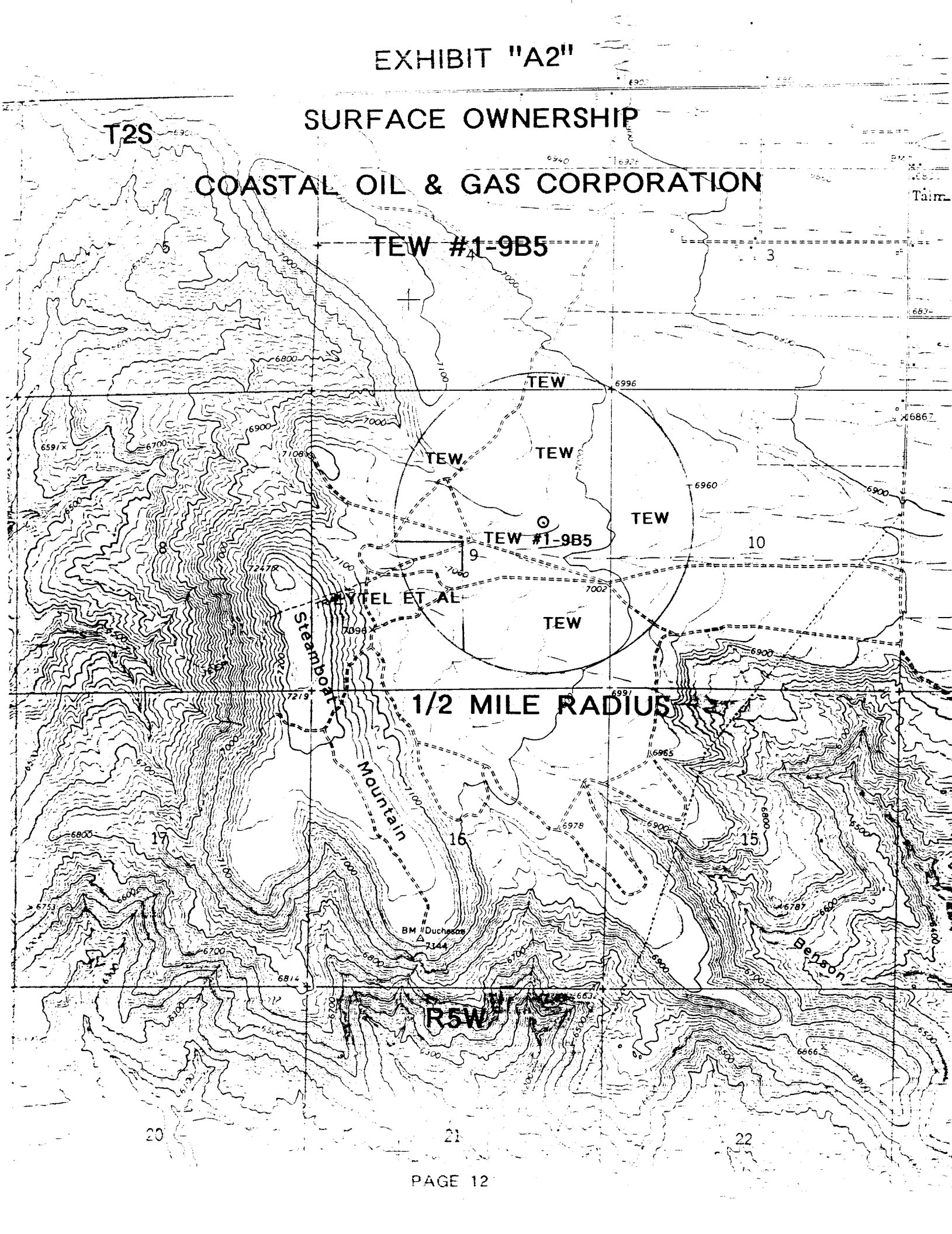


EXHIBIT "A3"

BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

IN THE MATTER OF THE APPLICATION OF COASTAL OIL & GAS CORPORATION FOR APPROVAL TO CONVERT THE TEW #1-9B5 TO AN UNDERGROUND WATER DISPOSAL WELL IN THE UINTA AND UPPER GREEN RIVER ZONES IN SECTION 9, T2S, R5W, DUCHESNE COUNTY, UTAH)

AFFIDAVIT OF MAILING

Lawrence T. Hartnett, of legal age, and being first duly sworn, upon his oath, deposes and says:

That he is employed by Coastal Oil & Gas Corporation as a consultant; that Coastal's application for Underground Water Disposal in the TEW #1-9B5 has been sent by certified mail on October 25, 1993, to the surface owners located within one-half mile radius of the subject well or other interested parties at the addresses shown on the attached mailing list; and that to the best of his information, knowledge and belief, the parties above named are the only parties to whom notice of this application is required to be given.

Lawrence T. Hartnett
Consultant
Registered Professional Engineer
State of Utah #054870965

DELSA L. SHORTEN NOTARY PUBLIC STATE OF COLORADO

STATE OF COLORADO)
) ss.
COUNTY OF JEFFERSON)

Subscribed and sworn to before me on this 25th day of October, 1993.

Notary Public

My Commission Expires: My Commission Expires January 7 1996

MAILING LIST
TEW #1-9B5
UNDERGROUND WATER DISPOSAL APPLICATION

WILLIAM FREDERICK TEW FAMILY LIMITED PARTNERSHIP
STAR ROUTE 120
TALMAGE, UT 84073

THE UTAH DIVISION OF OIL , GAS, & MINING
3 TRIAD CENTER, #350
SALT LAKE CITY, UT 84180-1203

UINTAH & OURAY AGENCY
FT. DUCHESNE, UT 84026

LYTEL ET AL GROUP
47 CORTE MESA DRIVE
SAN RAFAEL, CA 94901

EXHIBIT "B1"

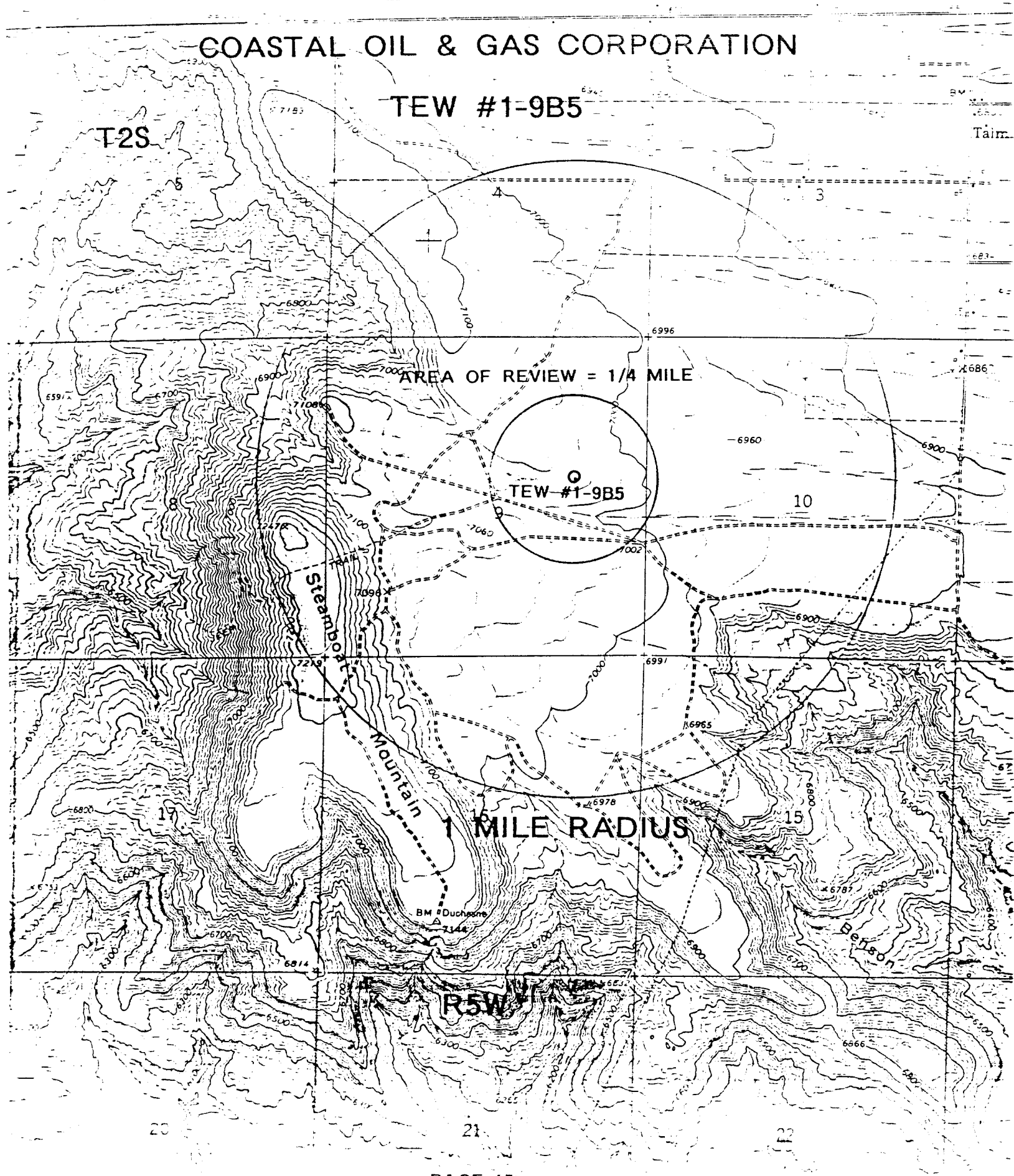
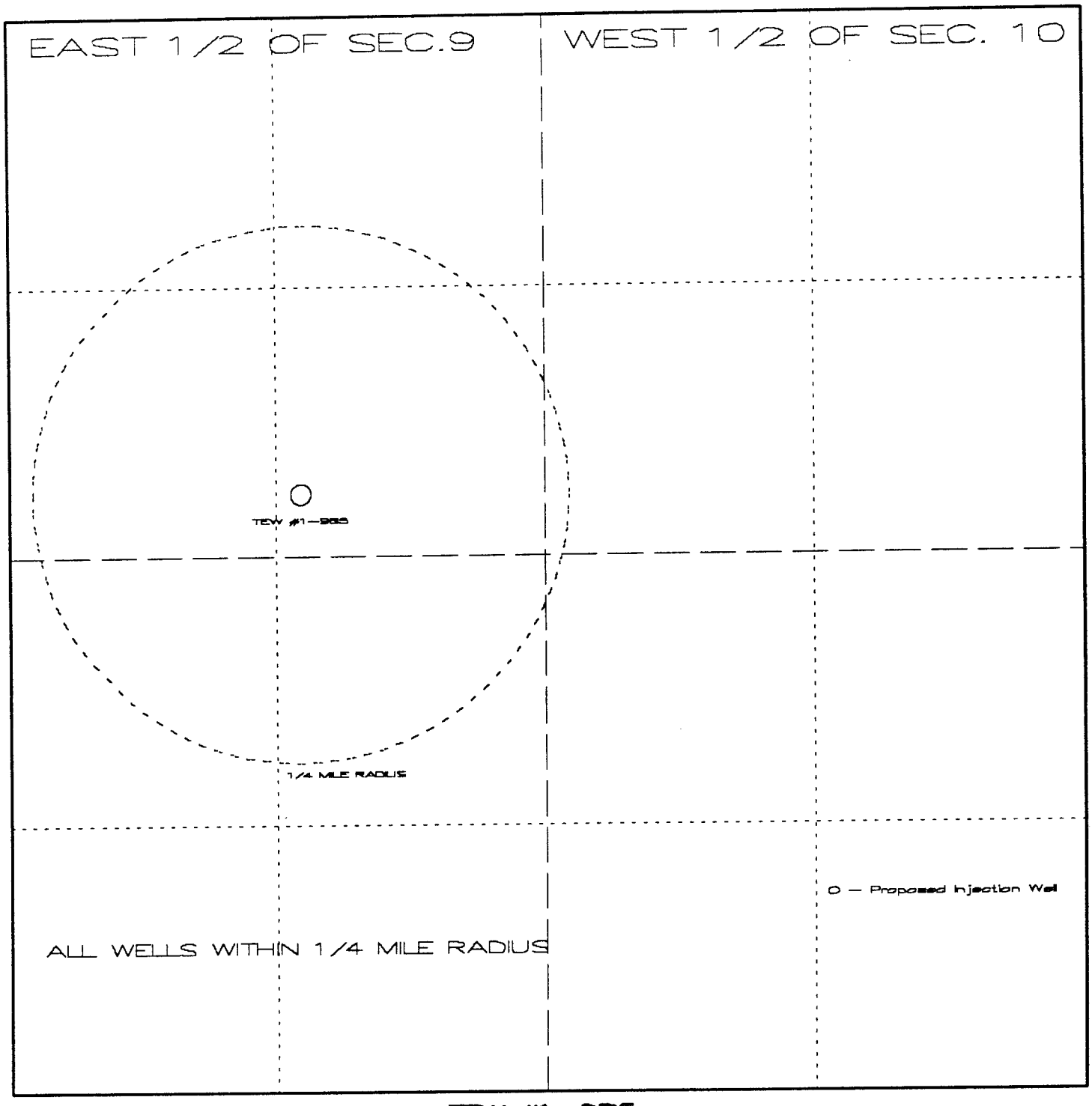

COASTAL OIL & GAS CORPORATION
TEW #1-9B5
T2S
AREA OF REVIEW = 1/4 MILE
TEW #1-9B5
1 MILE RADIUS
Steamboat
Mountain
BM Duchesne
Benson
R5W
10
15
17
20
21
22

EXHIBIT "52"

COASTAL OIL & GAS CORPORATION

T2S — R5W



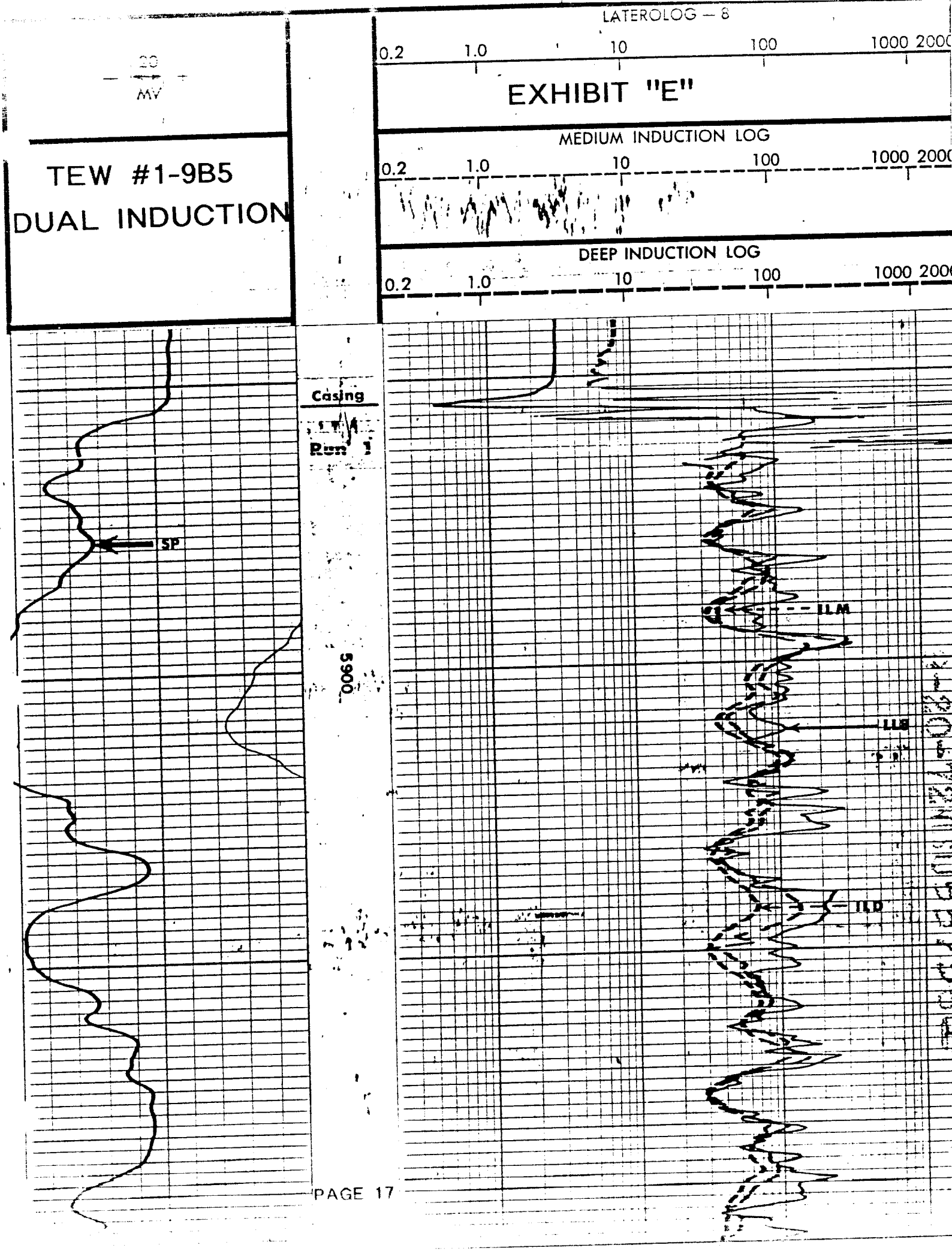
TEW #1—985

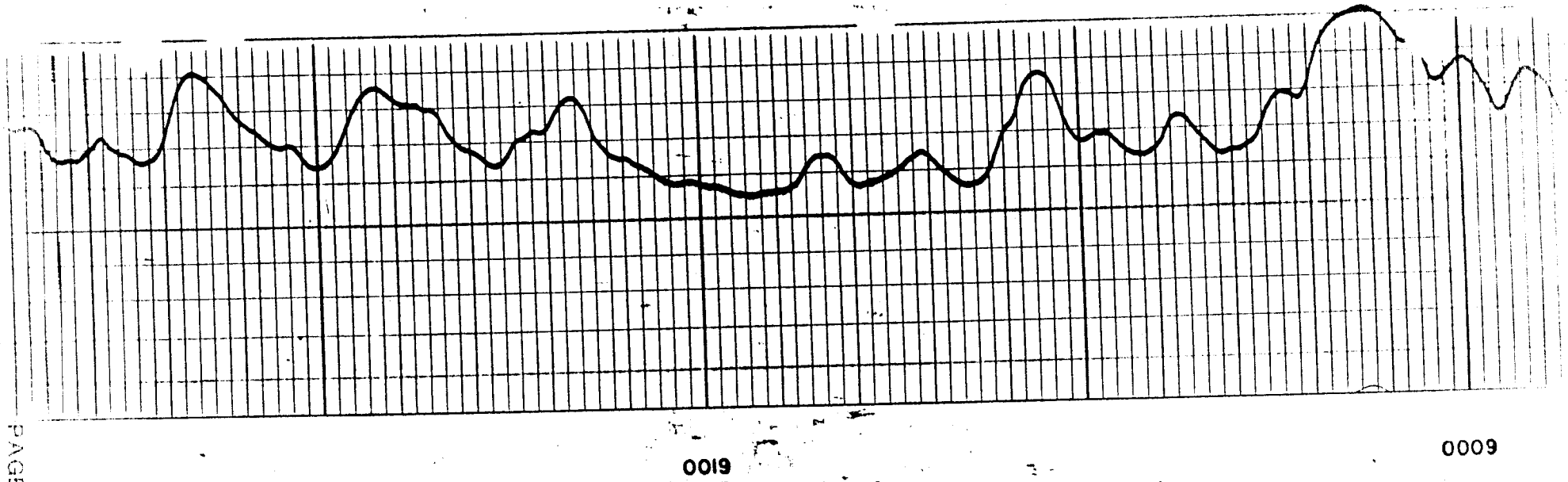
1201' FEL 2334' FNL SE NE SEC. 9, T2S—R5W

DUCHESNE COUNTY, UTAH

EXHIBIT "E"

TEW #1-9B5
DUAL INDUCTION

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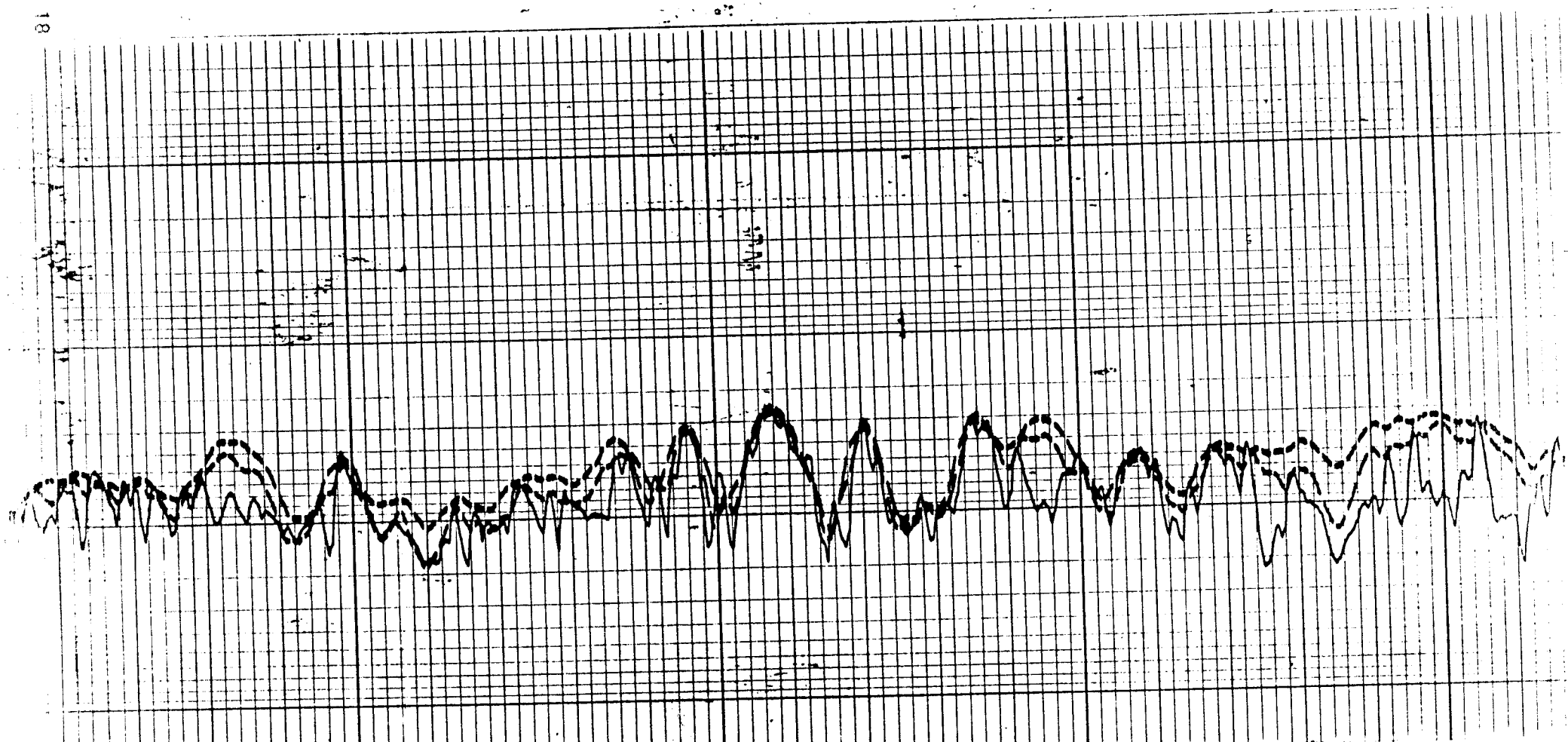

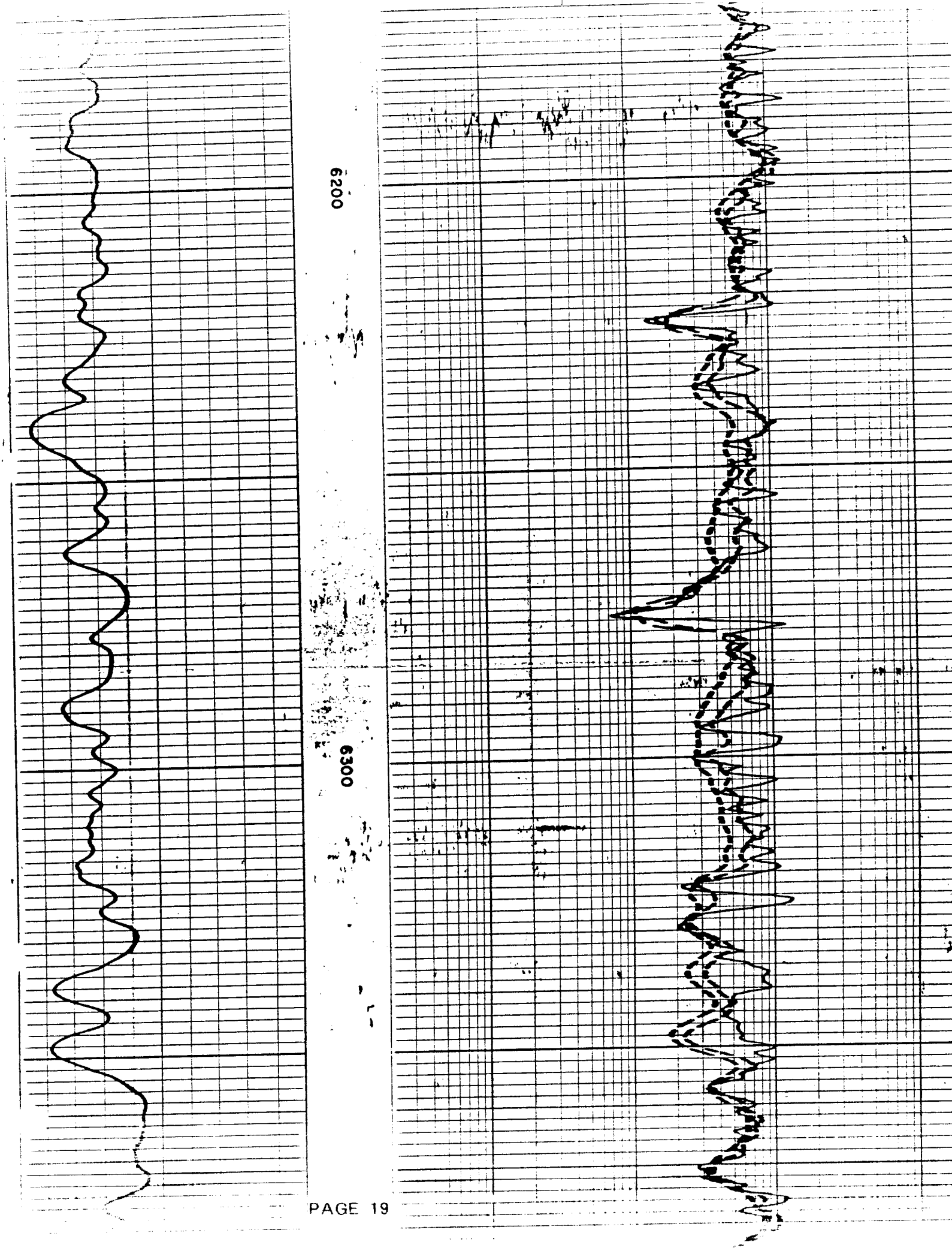
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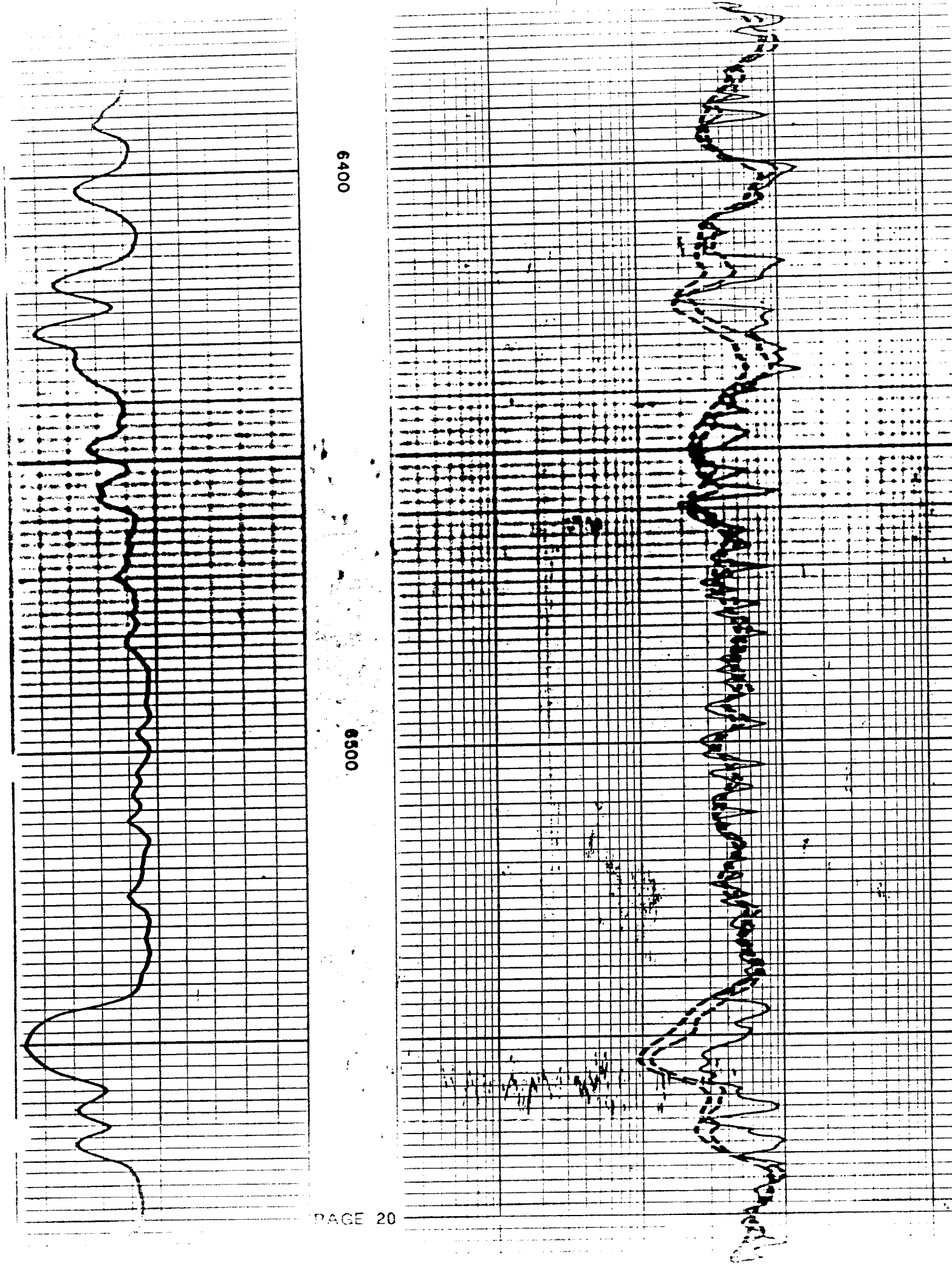
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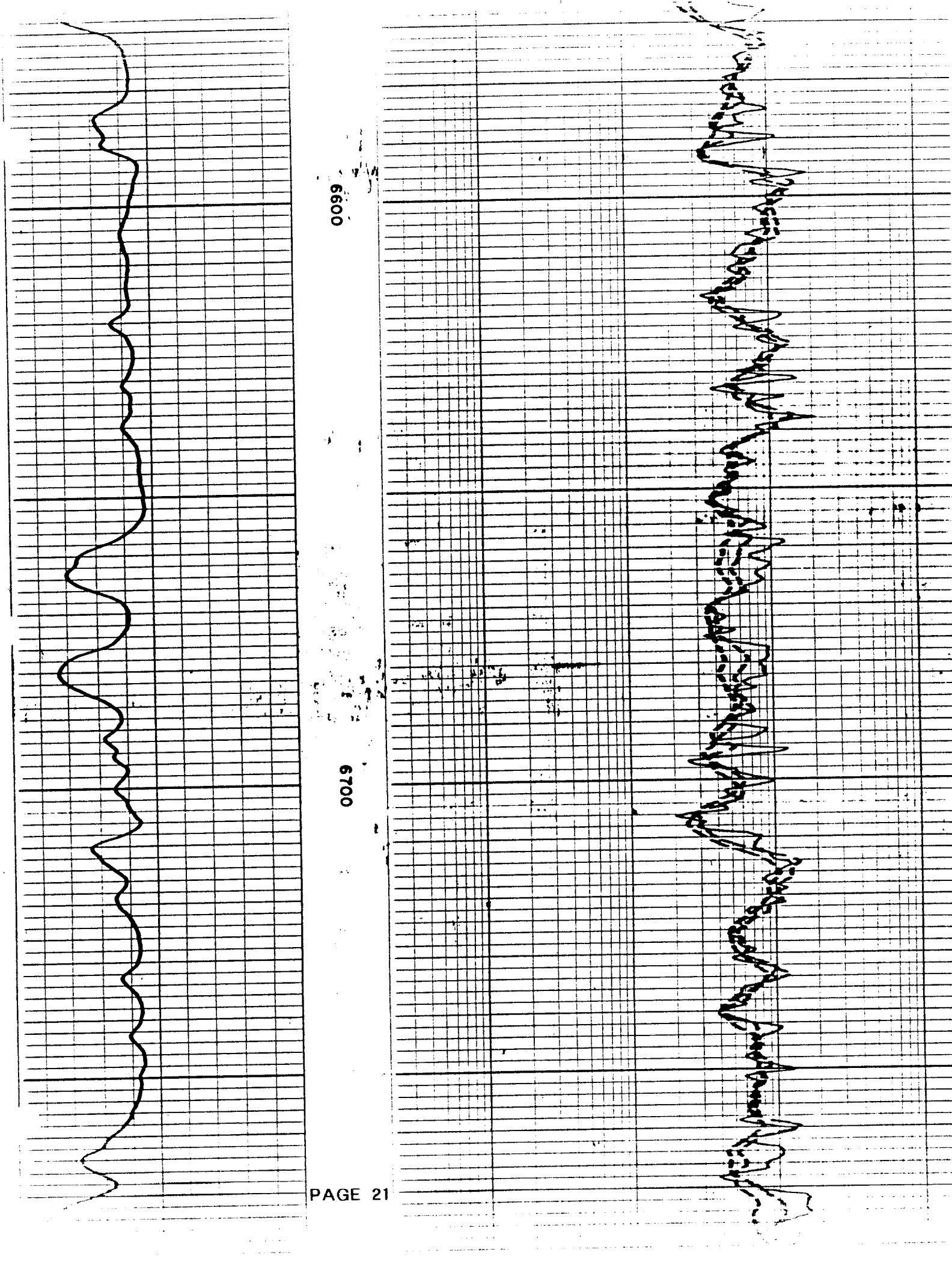

6600
6700

PETROLITE

EXHIBIT "G"

PETROLITE OIL FIELD CHEMICALS GROUP
369 Marshall Avenue • St. Louis, Missouri 63119
314 961-3500 • TWX 910-760-1660 • Telex: 44-2417

WATER ANALYSIS REPORT

COMPANY Coastal Oil & Gas ADDRESS Altamont, Ut. DATE: 11-3-87

SOURCE 2-2384 (see remarks) LAKE FORK SLUD DATE SAMPLED 11-3-87 ANALYSIS NO. 1

Analysis	Mg/L		*Meq/L	
1. pH	10			
2. H_2S (Qualitative)	40ppm			
3. Specific Gravity	1.030			
4. Dissolved Solids	67,585			
5. Suspended Solids				
6. Phenolphthalein Alkalinity ($CaCO_3$)				
7. Methyl Orange Alkalinity ($CaCO_3$)	27,500			
8. Bicarbonate (HCO_3)	33,550	HCO_3 ÷61	550	HCO_3
9. Chlorides (Cl)	12,975	Cl ÷35.5	365	Cl
10. Sulfates (SO_4)	75	SO_4 ÷48	2	SO_4
11. Calcium (Ca)	638	Ca ÷20	32	Ca
12. Magnesium (Mg)	0	Mg ÷12.2	0	Mg
13. Total Hardness ($CaCO_3$)	50			
14. Total Iron (Fe)	.5			
15. Barium (Qualitative)				
16. Strontium				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

*		*
32	Ca ← → HCO_3	550
0	Mg → SO_4	2
885	Na ← → Cl	365

Compound	Equiv. Wt.	X Meq/L = Mg/L	
$Ca(HCO_3)_2$	81.04	32	2593
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	~~518~~	~~43,512~~
Na_2SO_4	71.03	~~2~~	~~142~~
NaCl	58.46	~~365~~	~~21,338~~

Saturation Values Distilled Water 20°C

$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

REMARKS ~~water sample drawn from between 5210'- 5831' (63' zones, 252 holes)~~

Respectfully submitted
PETROLITE CORP

PETROLITE OIL FIELD CHEMICALS GROUP
369 Marshall Avenue • St. Louis, Missouri 63119
314 961-3500 • TWX 910-760-1660 • Telex 44-2417

WATER ANALYSIS REPORT

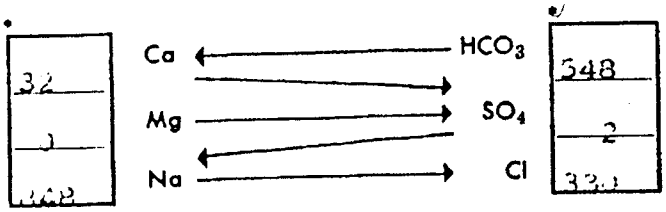
COMPANY Coastal Oil & Gas ADDRESS Altamont DATE: 11-3-87

SOURCE 2-23B4 (see remarks) DATE SAMPLED 11-3-87 ANALYSIS NO. 2

Analysis	Mg/l	*Meq/l		
1. pH	10			
2. H_2S (Qualitative)	45ppm			
3. Specific Gravity	1.030			
4. Dissolved Solids	65,371			
5. Suspended Solids				
6. Phenolphthalein Alkalinity ($CaCO_3$)				
7. Methyl Orange Alkalinity ($CaCO_3$)	27,400			
8. Bicarbonate (HCO_3)	HCO_3 33,428	÷61	548	HCO_3
9. Chlorides (Cl)	Cl 11,699	÷35.5	330	Cl
10. Sulfates (SO_4)	SO_4 100	÷48	2	SO_4
11. Calcium (Ca)	Ca 648	÷20	32	Ca
12. Magnesium (Mg)	Mg 0	÷12.2	0	Mg
13. Total Hardness ($CaCO_3$)	50			
14. Total Iron (Fe)	.7			
15. Barium (Qualitative)				
16. Strontium				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values Distilled Water 20°C

$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
$Ca(HCO_3)_2$	81.04		32		2593
$CaSO_4$	68.07				
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17				
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00		516		43,344
Na_2SO_4	71.03		2		142
NaCl	58.46		330		19,292

REMARKS water sample drawn from between 4204'-4645' (35' zones, 14 holes)

Respectfully submitted
PETROLITE CORP.

K23 8F 10-84

PETROLITE

PETROLITE OIL FIELD CHEMICALS GROUP
369 Marshall Avenue • St. Louis, Missouri 63119
314 961-3500 • TWX 910-760-1660 • Telex: 44-2417

WATER ANALYSIS REPORT

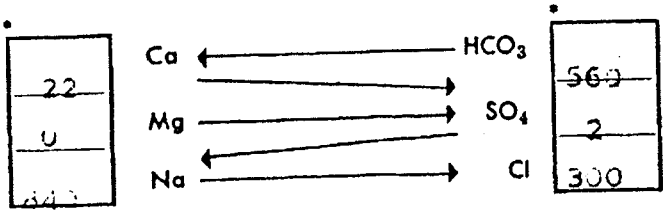
COMPANY Coastal Oil & Gas ADDRESS Altamont, Ut. DATE: 11-3-87

SOURCE 2-2384 (see remarks) DATE SAMPLED 11-2-87 ANALYSIS NO. 3

Analysis	Mg/L	*Meq/L	
1. pH	10		
2. H_2S (Qualitative)	35ppm		
3. Specific Gravity	1.030		
4. Dissolved Solids	64,655		
5. Suspended Solids			
6. Phenolphthalein Alkalinity ($CaCO_3$)			
7. Methyl Orange Alkalinity ($CaCO_3$)	28,000		
8. Bicarbonate (HCO_3)	34,160	÷61 = 560	HCO_3
9. Chlorides (Cl)	10,635	÷35.5 = 300	Cl
10. Sulfates (SO_4)	95	÷48 = 2	SO_4
11. Calcium (Ca)	423	÷20 = 22	Ca
12. Magnesium (Mg)	0	÷12.2 = 0	Mg
13. Total Hardness ($CaCO_3$)	50		
14. Total Iron (Fe)	.6		
15. Barium (Qualitative)			
16. Strontium			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X Meq/L =	Mg/L
$Ca(HCO_3)_2$	81.04	22	1783
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	538	45,192
Na_2SO_4	71.03	2	142
NaCl	58.46	300	17,538

REMARKS water drawn from between 4707'- 5186' (29' zones, 116 holes)

Respectfully submitted
PETROLITE CORP.

COASTAL OIL & GAS/ANR PRODUCTION

MASTER WELL LIST

SEPTEMBER, 1003

	WELL NAME
1	UTE 1-25B6
2	UTE 1-36B6
3	UTE SMITH 1-30B5
4	SMITH 1-31B5
5	BROADHEAD 1-32B5
6	ROBB 2-29B5
7	BROADHEAD 2-32B5
8	MURDOCK 2-34B5
9	BROADHEAD 1-21B6
10	UTE 1-28B6
11	BIRCH 3-27B5
12	LAWRENCE 1-30B4
13	YOUNG ETAL 1-29B4
14	WEIKERT 2-29B4
15	BLEAZARD 2-28B4
16	YOUNG 2-30B4
17	ELLSWORTH 3-20B4
18	HUNT 2-21B4 R
19	ELLSWORTH 2-19B4
20	POTTER 2-24B5
21	HANSKUTT 2-23B5
22	MURDOCK 2-26B5 R
23	UTE 2-22B5
24	ELLSWORTH 2-20B4
25	HUNT 1-21B4
26	ELLSWORTH 1-20B4
27	BROTHERSON 1-22B4
28	UTE 1-28B4
29	BROTHERSON 1-10B4
30	BROTHERSON 2-10B4
31	BROTHERSON 2-22B4
32	BROTHERSON 2-14B4
33	LAKE FORK 2-13B4
34	BROTHERSON 2-11B4
35	BROTHERSON 2-15B4
36	FARNSWORTH 1-13B5
37	EHRICH 1-11B5
38	FARNSWORTH 1-12B5
39	WRIGHT 2-13B5
40	REEDER 1-17B5
41	DUNCAN 2-9B5
42	TEW 2-10B5
43	BURTON 2-15B5
44	EHRICH 3-11B5
45	FARNSWORTH 2-12B5
46	BLEAZARD 1-18B4
47	ELLSWORTH 1-19B4
48	POTTER 1-24B5
49	ELLSWORTH 1-8B4
50	ELLSWORTH 1-17B4
51	ELLSWORTH 1-9B4
52	ELLSWORTH 1-16B4
53	LAKE FORK 3-15B4
54	BLEAZARD 2-18B4
55	ELLSWORTH 2-17B4
56	ELLSWORTH 2-16B4
57	CHANDLER 1-5B4
58	TEW 1-1B5
59	MILES 2-1B5
60	POTTER 1-2B5
61	BROTHERSON 2-2B5
62	FARNSWORTH 1-7B4
63	FARNSWORTH 2-7B4
64	CROOK 1-6B4
65	POTTER 2-6B4
66	LINDSAY 2-33A4
67	BROTHERSON 1-23B4
68	BROTHERSON 1-14B4
69	BROTHERSON 1-24B4
70	BROTHERSON 1-26B4
71	BROTHERSON 3-23B4
72	BROTHERSON 2-2B4
73	BABCOCK 2-12B4
74	EVANS 2-19B3
75	BROTHERSON 1-3B4
76	BROTHERSON 1-28A4
77	BROTHERSON 1-33A4
78	FIELDSTEAD 2-28A4
79	CHRISTENSEN 2-29A4
80	CHATWIN 1-21A4
81	JESSEN 2-21A4
82	UTE BROTHERSON 2-34A4
83	UTE 1-34A4
84	MILES 2-35A4
85	BROTHERSON 1-2B4
86	UTE 1-1B4
87	EVANS 1-19B3
88	MYRIN RANCH 2-18B3

	WELL NAME
89	BABCOCK 1-12B4
90	RUST 2-36A4
91	UTE JENKS 2-1B4
92	UTE 1-36A4
93	MILES 1-35A4
94	MEEKS 3-08B3
95	RUST 1-4B3
96	LOTRIDGE-GATES U 1-3B3
97	MILES 2-3B3
98	HANSEN TRUST 1-5B3
99	POWELL 1-33A3
100	HANSON TRUST 1-32A3
101	STEVENSON 3-29A3
102	POWELL 2-33A3
103	REMINGTON 2-34A3
104	HANSON TRUST 2-29A3
105	WINKLER 2-28A3
106	REMINGTON 1-34A3
107	MONSEN 2-27A3 R
108	MONSEN 1-21A3
109	MONSEN 2-22A3
110	WINKLER, DUNCAN 1-28A3
111	WHITEHEAD 1-22A3
112	TODD 2-21A3
113	TEW 1-15A3
114	YOUNG 2-15A3
115	UTE TRIBAL 2-4S
116	JENKINS 2-12B3
117	JENKINS 1-1B3
118	JENKINS 2-1B3 R
119	GOODRICH 1-2B3
120	GOODRICH 2-2B3
121	UTE 1-25A3
122	UTE 1-26A3
123	UTE 2-35A3
124	UTE 2-26A3
125	UTE 2-25A3
126	UTE 3-35A3
127	BODERO 1-15B3
128	HANSON 1-24B3
129	HANSON 2-9B3
130	RUDY 1-11B3
131	LAZY K 2-11B3
132	ROPER 1-14B3
133	LAZY K 2-14B3
134	UTE 3-12B3
135	DOYLE 1-10B3
136	IORG 2-10B3
137	RUST 3-4B3
138	UTE 1-8A1E
139	HORROCKS #2V

	WELL NAME
140	POWELL 2-19A1
141	POWELL FEE #4(1-19A1)
142	POWELL 2-13
143	POWELL 4-13A2
144	UTE TRIBAL 1-33Z2
145	UTE 1-32Z2
146	UTE 2-33Z2 R
147	UTE TRIBAL 1-31
148	OBERHANSLY 2-31Z1
149	GALLOWAY 1-18B1
150	STATE 1-19B1
151	ELDER 1-13B2
152	MATHEWS 2-13B2
153	LAMICQ 2-5B2
154	UTE 1-6B2
155	UTE 1-31A2 (AMERADA)
156	UTE 2-6B2
157	UTE 2-31A2
158	LAWSON 1-28A1
159	EL ASAY

REMARKS 100 organisms/ml

COMPANY: COASTAL OIL & GAS

WELL: 1-21B4 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

NATIONAL COMPANY

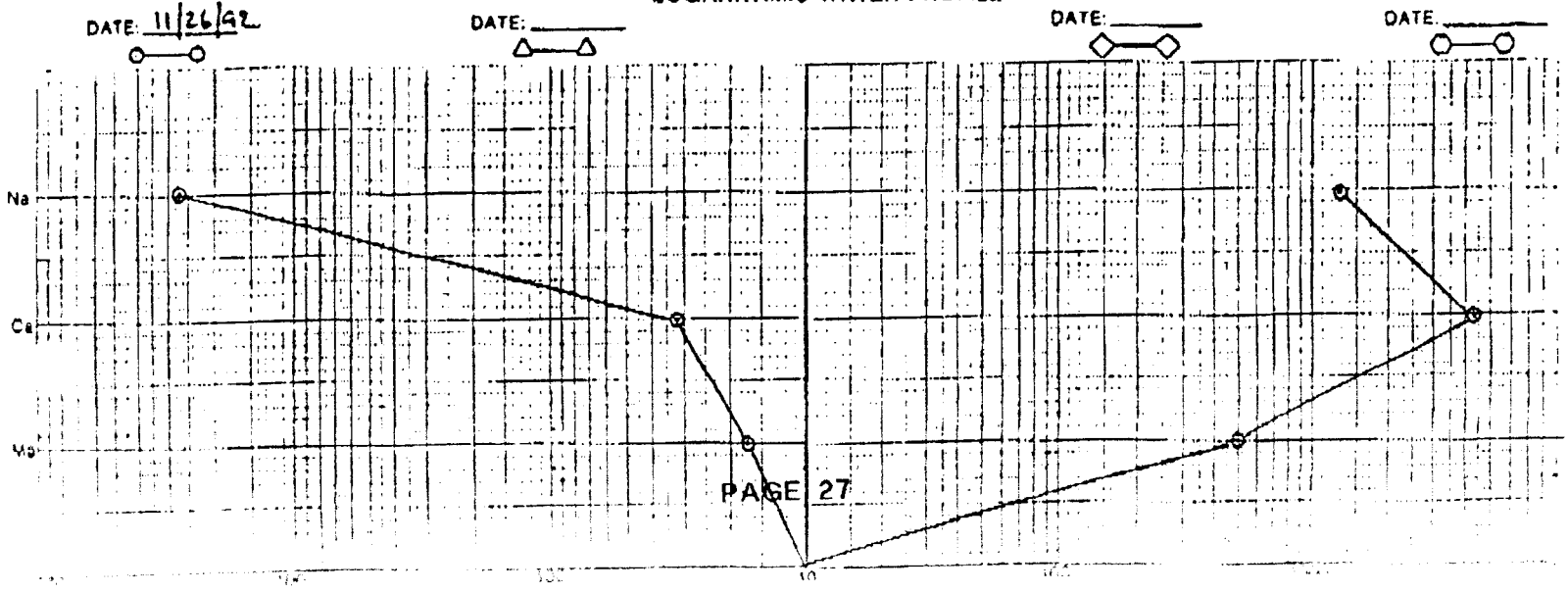
EXHIBIT "H1"

WATER ANALYSIS

HUNT 1-21B4

	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	7.5							
SPECIFIC GRAVITY	1.005							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	32	2						
MAGNESIUM (Mg)	17	1						
SODIUM (Na)	2667	116						
BICARBONATE (HCO_3)	4392	72						
SULFATES (SO_4)	500	10						
CHLORIDES (Cl)	1300	37						
TOTAL DISSOLVED SOLIDS	8908							
TOTAL HARDNESS	150							
SCALE COMPOUND RESIDUALS								
CALCULATED MINERAL COMPOSITION								
Ca $(HCO_3)_2$	162							
Ca SO_4								
$CaCl_2$								
Mg $(HCO_3)_2$	73							
Mg SO_4								
Mg CL_2								
Na HCO_3	5796							
Na_2SO_4	710							
Na Cl	2163							

LOGARITHMIC WATER PROFILE



REMARKS 100 ORGANISMS/mL

NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-21A3 DISPOSAL

FIELD: ALTAMONT

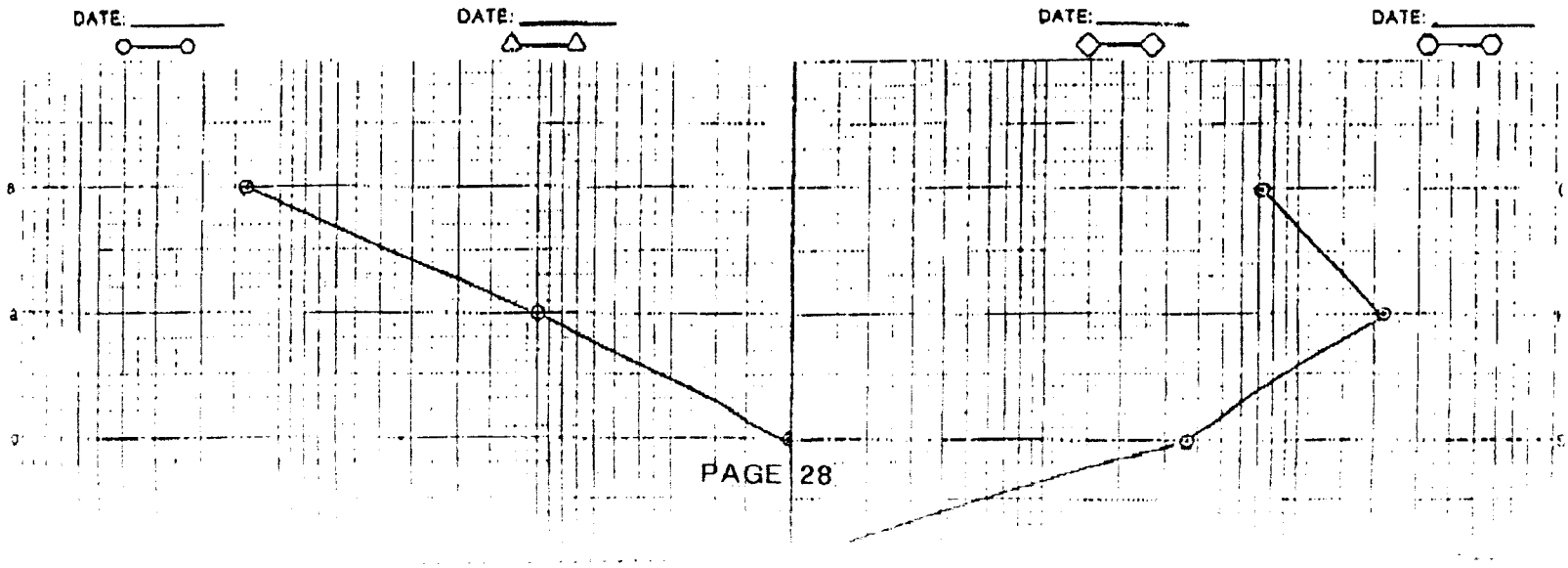
COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

MONSEN #1-21A3

	DATE: 11/26/93		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	7.5							
SPECIFIC GRAVITY	1.015							
H_2S	Present							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	100	5						
MAGNESIUM (Mg)	2	0						
SODIUM (Na)	1357	59						
BICARBONATE (HCO_3)	2196	36						
SULFATES (SO_4)	370	8						
CHLORIDES (Cl)	720	20						
TOTAL DISSOLVED SOLIDS	4745							
TOTAL HARDNESS	260							
SCALE COMPOUND RESIDUALS								
CALCULATED MINERAL COMPOSITION								
Ca $(HCO_3)_2$	405							
Ca SO_4								
$CaCl_2$								
Mg $(HCO_3)_2$								
Mg SO_4								
Mg CL_2								
Na HCO_3	2604							
Na_2SO_4	568							
Na Cl	1169							

LOGARITHMIC WATER PROFILE



NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-23B4 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

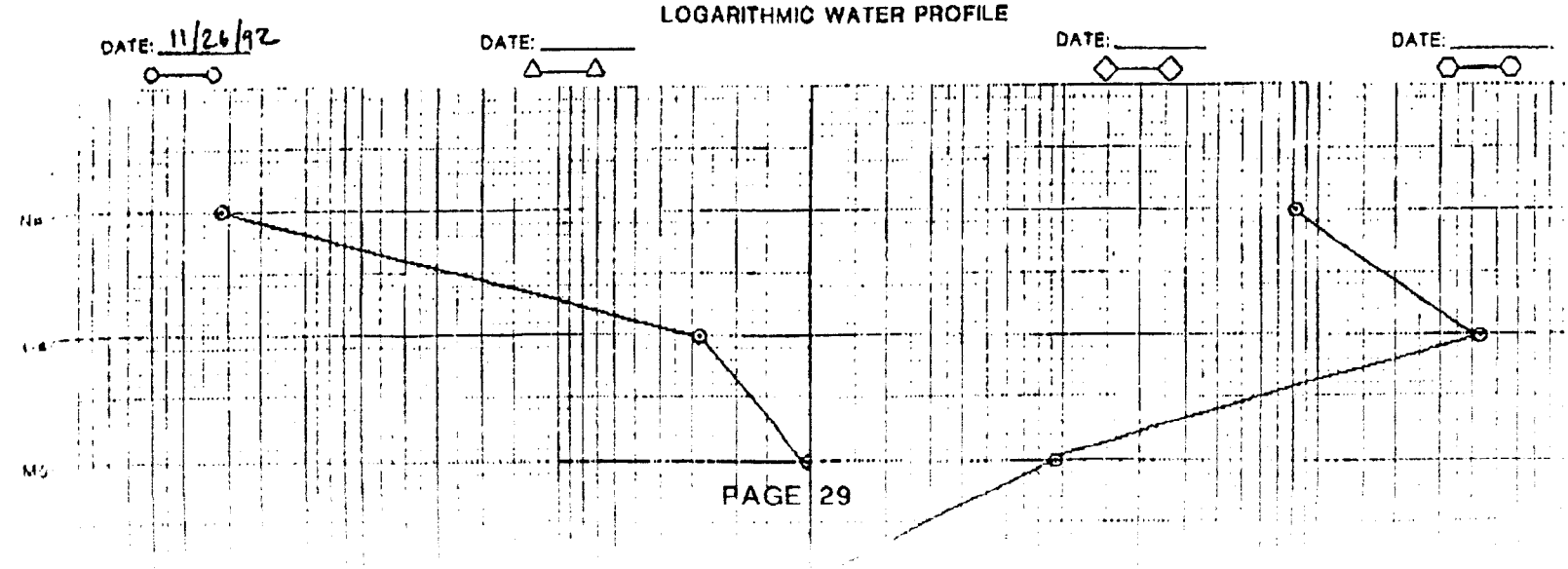
REMARKS 100 organ/mL

WATER ANALYSIS

BROTHERSON #1-23B4

	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	8.5							
SPECIFIC GRAVITY	1.010							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	28	1						
MAGNESIUM (Mg)	10	1						
SODIUM (Na)	2162	94						
BICARBONATE (HCO_3)	4343	71						
SULFATES (SO_4)	95	2						
CHLORIDES (Cl)	820	23						
TOTAL DISSOLVED SOLIDS	7458							
TOTAL HARDNESS	110							
SCALE COMPOUND RESIDUALS								
CALCULATED MINERAL COMPOSITION								
Ca $(HCO_3)_2$	81							
Ca SO_4								
$CaCl_2$								
Mg $(HCO_3)_2$	73							
Mg SO_4								
Mg CL_2								
Na HCO_3	5796							
Na_2SO_4	142							
Na Cl	1345							

LOGARITHMIC WATER PROFILE



REMARKS 1.0# OSCAVENGER/BBL

NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-4B3 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO. UTAH

WATER ANALYSIS

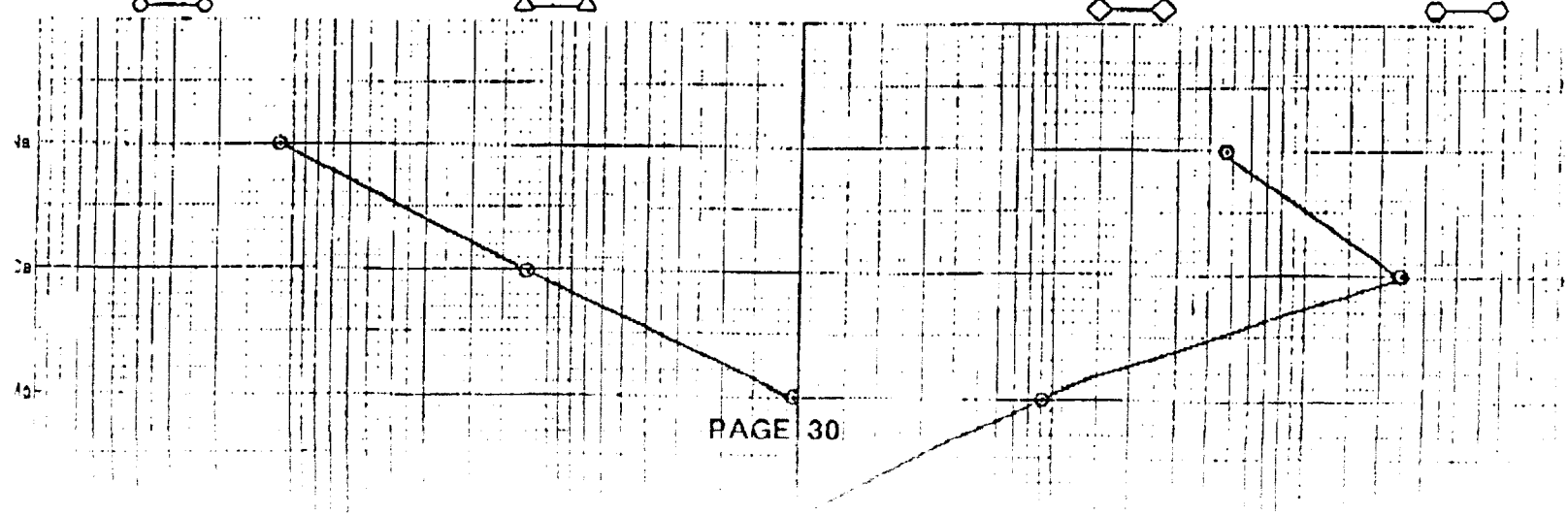
	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	8.5				RUST #1-4B3			
SPECIFIC GRAVITY	1.010							
H_2S	Present							
TOTAL IRON (Fe)	Trace							
CALCIUM (Ca)	120	6						
MAGNESIUM (Mg)	10	1						
SODIUM (Na)	1104	48						
BICARBONATE (HCO_3)	2440	40						
SULFATES (SO_4)	93	2						
CHLORIDES (Cl)	475	13						
TOTAL DISSOLVED SOLIDS	4242							
TOTAL HARDNESS	340							
SCALE COMPOUND RESIDUALS								

CALCULATED MINERAL COMPOSITION

$Ca(HCO_3)_2$	486					
$CaSO_4$						
$CaCl_2$						
$Mg(HCO_3)_2$	73					
$MgSO_4$						
$MgCl_2$						
$NaHCO_3$	2772					
Na_2SO_4	142					
NaCl	760					

LOGARITHMIC WATER PROFILE

DATE: 11/26/92 DATE: DATE: DATE:



REMARKS: 100 DEGREES F/mL

NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-30B4 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

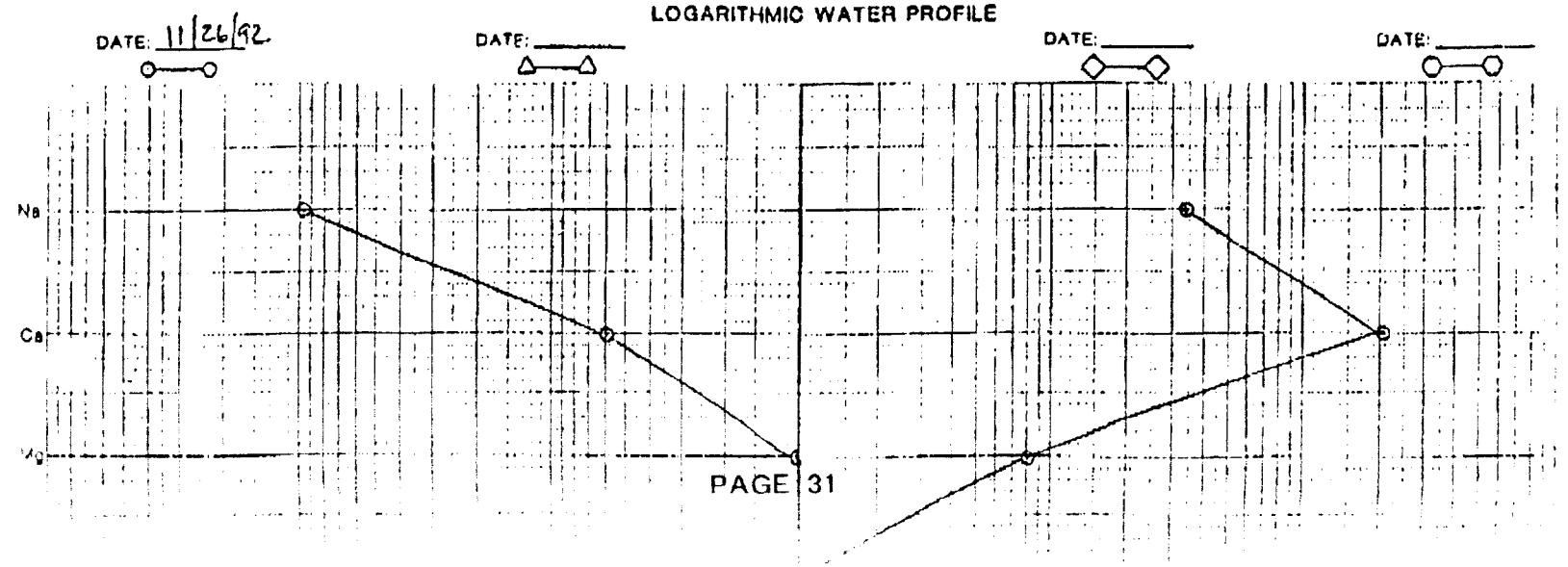
	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	7.5							
SPECIFIC GRAVITY	1.005							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	60	3						
MAGNESIUM (Mg)	10	1						
SODIUM (Na)	966	42						
BICARBONATE (HCO_3)	2050	34						
SULFATES (SO_4)	80	2						
CHLORIDES (Cl)	340	10						
TOTAL DISSOLVED SOLIDS	3506							
TOTAL HARDNESS	190							
SCALE COMPOUND RESIDUALS								

LAWRENCE #1-30B4

CALCULATED MINERAL COMPOSITION

$Ca(HCO_3)_2$	243			
$CaSO_4$				
$CaCl_2$				
$Mg(HCO_3)_2$	73			
$MgSO_4$				
$MgCl_2$				
$NaHCO_3$	2520			
Na_2SO_4	142			
NaCl	585			

LOGARITHMIC WATER PROFILE



NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-33A4 DISPOSAL

FIELD: ALTAMONT

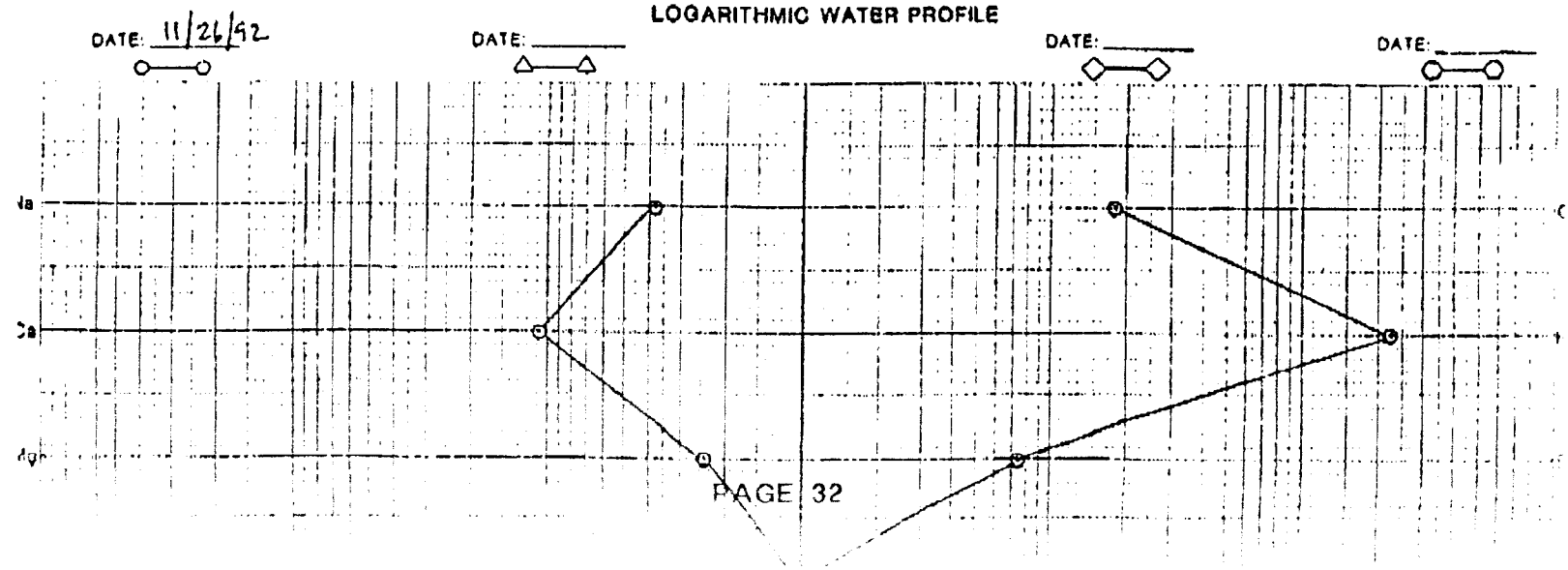
COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	8.0							
SPECIFIC GRAVITY	1.010							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	108	6						
MAGNESIUM (Mg)	24	2						
SODIUM (Na)	874	38						
BICARBONATE (HCO_3)	2294	38						
SULFATES (SO_4)	75	2						
CHLORIDES (Cl)	180	5						
TOTAL DISSOLVED SOLIDS	3555							
TOTAL HARDNESS	370							
SCALE COMPOUND RESIDUALS								
CALCULATED MINERAL COMPOSITION								
Ca $(HCO_3)_2$	405							
Ca SO_4								
$CaCl_2$								
Mg $(HCO_3)_2$	146							
Mg SO_4								
Mg CL_2								
Na HCO_3	2604							
Na_2SO_4	142							
Na Cl	292							

BROTHERSON #1-33A4

LOGARITHMIC WATER PROFILE



SRB TEST

REMARKS: 1,000 ORGANISMS/mL

NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-18B4 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

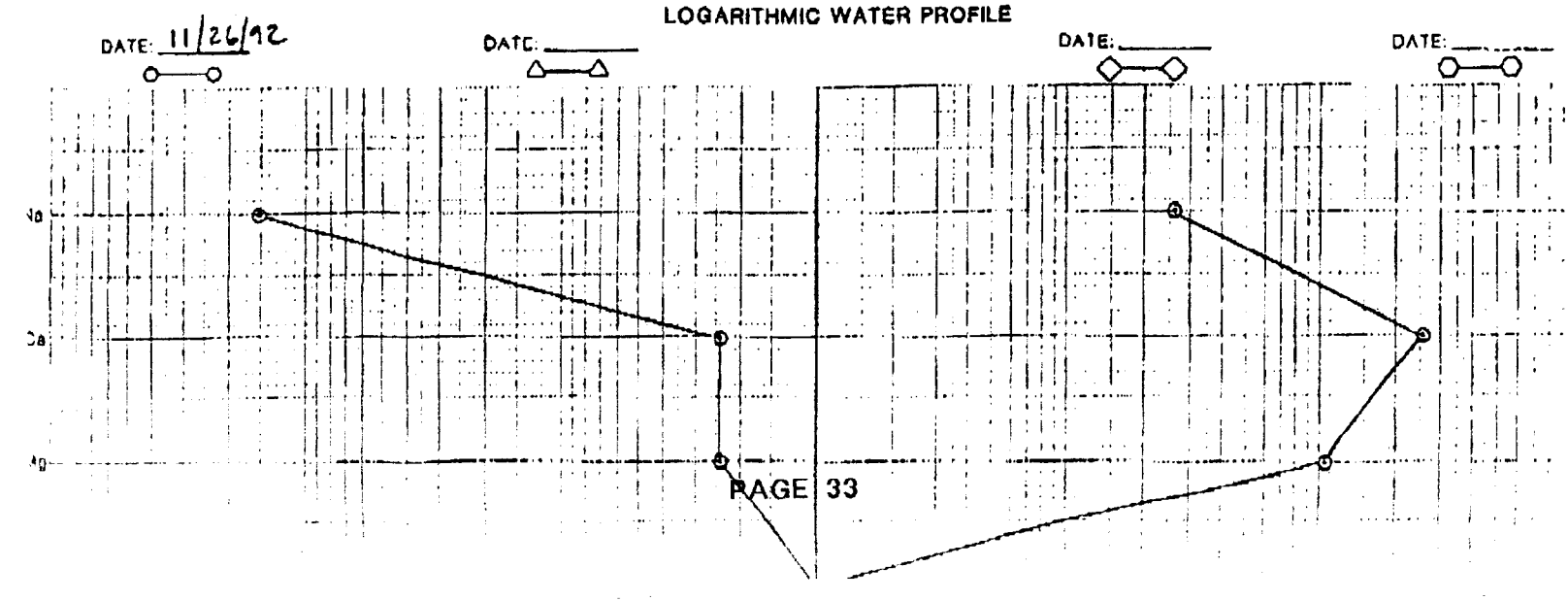
	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	8.0							
SPECIFIC GRAVITY	1.015							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	24	1						
MAGNESIUM (Mg)	24	2						
SODIUM (Na)	1540	67						
BICARBONATE (HCO_3)	2538	42						
SULFATES (SO_4)	1024	21						
CHLORIDES (Cl)	260	7						
TOTAL DISSOLVED SOLIDS	5410							
TOTAL HARDNESS	160							
SCALE COMPOUND RESIDUALS								

BLEAZARD #1-18B4

CALCULATED MINERAL COMPOSITION

$Ca(HCO_3)_2$	81						
$CaSO_4$							
$CaCl_2$							
$Mg(HCO_3)_2$	146						
$MgSO_4$							
$MgCl_2$							
$NaHCO_3$	3276						
Na_2SO_4	1492						
NaCl	409						

LOGARITHMIC WATER PROFILE



REMARKS 1,000 ocamhos/mL

NATIONAL PARAKLEEN COMPANY

COMPANY: COASTAL OIL & GAS

WELL: 1-35A3 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

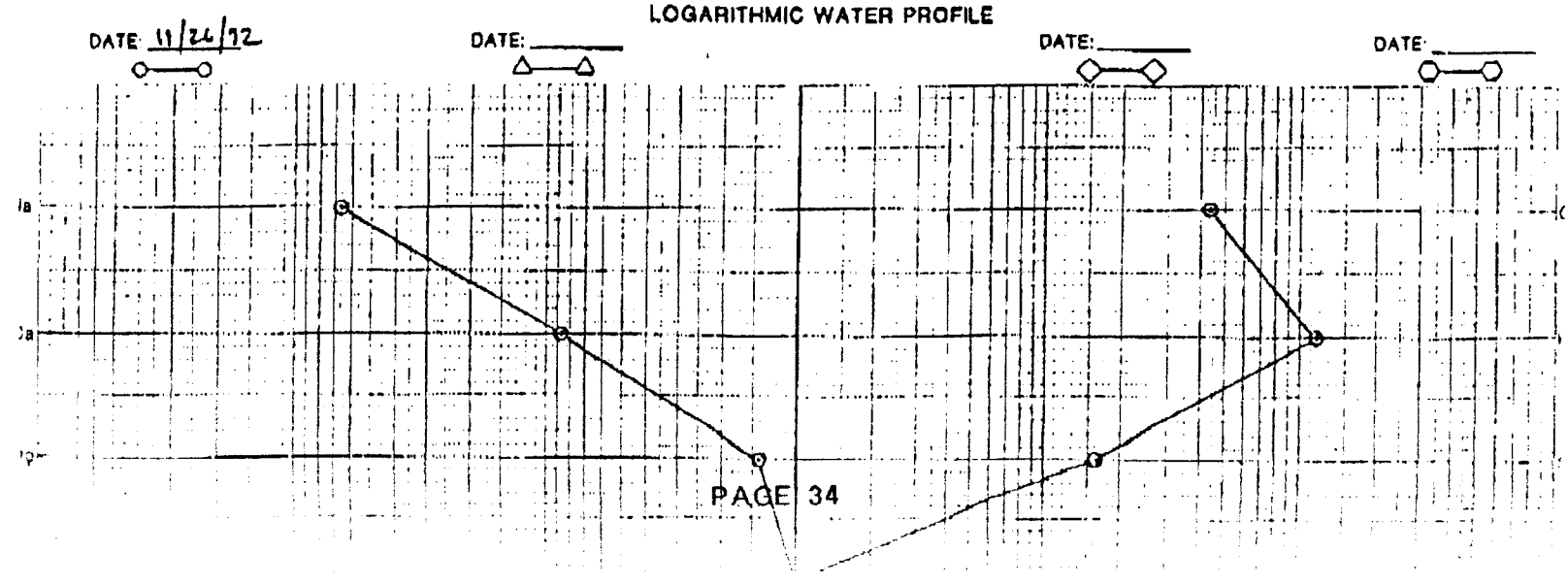
UTE #1-35A3

	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	7.5							
SPECIFIC GRAVITY	1.005							
H_2S	PRESENT							
TOTAL IRON (Fe)	NONE							
CALCIUM (Ca)	88	4						
MAGNESIUM (Mg)	14	1						
SODIUM (Na)	667	29						
BICARBONATE (HCO_3)	1171	19						
SULFATES (SO_4)	165	3						
CHLORIDES (Cl)	440	12						
TOTAL DISSOLVED SOLIDS	2545							
TOTAL HARDNESS	280							
SCALE COMPOUND RESIDUALS								

CALCULATED MINERAL COMPOSITION

$Ca(HCO_3)_2$	324						
$CaSO_4$							
$CaCl_2$							
$Mg(HCO_3)_2$	73						
$MgSO_4$							
$MgCl_2$							
$NaHCO_3$	1176						
Na_2SO_4	213						
NaCl	702						

LOGARITHMIC WATER PROFILE



REMARKS 100 ORGANISMS/ml

NATIONAL ... COMPANY

WELL: 1-01B5 DISPOSAL

FIELD: ALTAMONT

COUNTY/STATE: DUCHESNE CO., UTAH

WATER ANALYSIS

	DATE: 11/26/92		DATE:		DATE:		DATE:	
	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L	Mg/L	Meq/L
pH	7.5				TEW #1-1B5			
SPECIFIC GRAVITY	1.005							
H_2S	PRESENT							
TOTAL IRON (Fe)	TRACE							
CALCIUM (Ca)	132	7						
MAGNESIUM (Mg)	32	2						
SODIUM (Na)	713	31						
BICARBONATE (HCO_3)	1708	28						
SULFATES (SO_4)	390	8						
CHLORIDES (Cl)	140	4						
TOTAL DISSOLVED SOLIDS	3105							
TOTAL HARDNESS	420							
SCALE COMPOUND RESIDUALS								
CALCULATED MINERAL COMPOSITION								
$Ca(HCO_3)_2$	567							
$CaSO_4$								
$CaCl_2$								
$Mg(HCO_3)_2$	146							
$MgSO_4$								
$MgCl_2$								
$NaHCO_3$	1596							
Na_2SO_4	568							
NaCl	234							

LOGARITHMIC WATER PROFILE

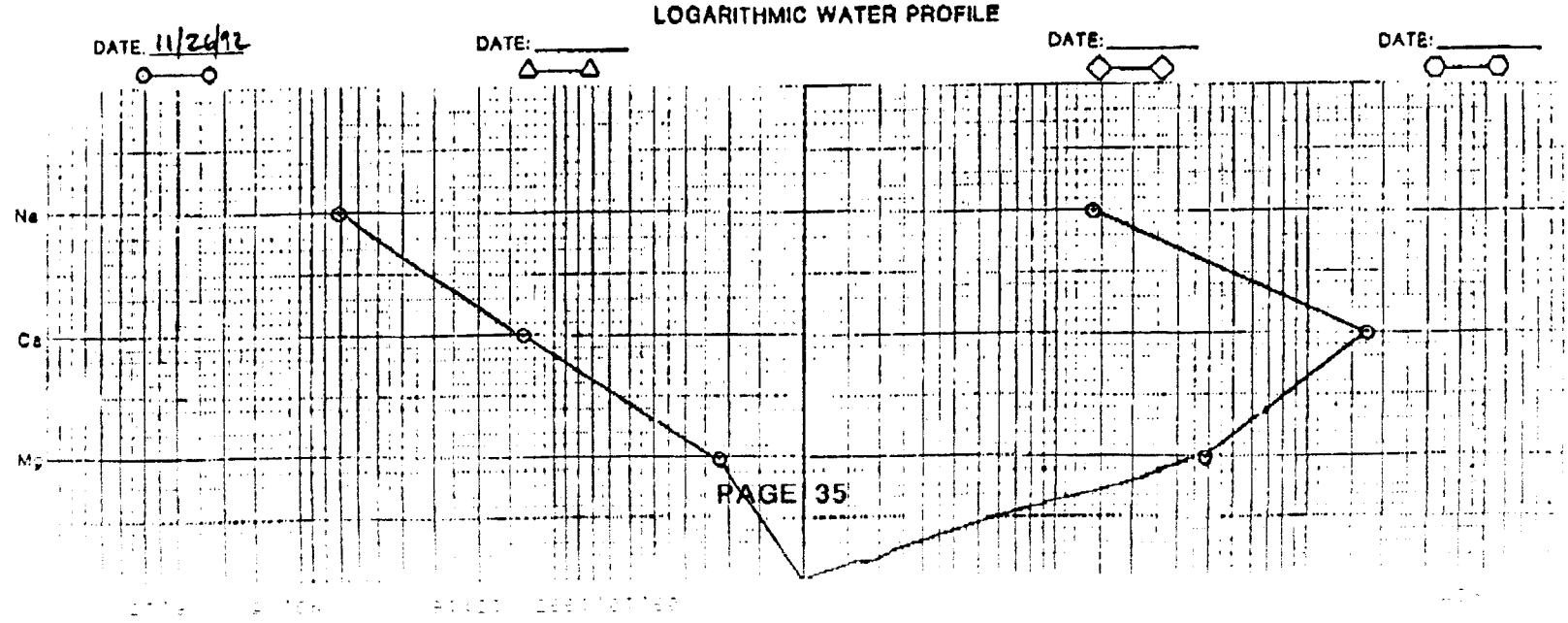


EXHIBIT "M"

SWD WELL CONVERSION

TEW #1-9B5

ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

JULY 23, 1993

WELL DATA

Location:	2334' FNL & 1201' FEL (SE/NE) Section 9, T2S-R5W
API No.:	43-013-30121
WI:	75.0% ANR
Elevation:	7047' GL, 7073' KB
TD:	15,337'
Spud Date:	4/15/72
Completion Date:	10/7/72
P&A Date:	1/18/90
Casing:	13⅜" 68# K-55 ST&C @ 351', cmt'd w/550 sxs (top w/150 sx).
	9⅝" 40# K-55/N-80 S/LT&C @ 5841', cmt'd w/700 sxs (top out w/300 sx, 2nd top out w/300 sx, circ cmt). Note: Squeezed hole in 9⅝" csg @ 1565' due to csg wear from hole deviation w/1200 sx (4 stages). Tested squeeze to 1000 psi, held.
	7" 29# S-95/P-110 LT&C @ 11,999', cmt'd w/400 sx (TOC @ 9961' - CBL). (Note: Squeezed 7" csg leak @ 6004-35' w/300 sx Hi-Fill & 200 sx neat - 7" x 9⅝" circ. Tested to 2000#, pumped in @ 2.7 BPM, 1800#. Re-squeezed w/200 sx. Tested to 2000#, pumped in @ 1.5 BPM, 1850#. Re-squeezed w/150 sx to 3000#.
	5" 18# N-80/SOO-95 SFJP Liner @ 11,716'-15,270', cmt'd w/701 sx (TOC @ liner top).

CASING DATA:

Description	Interval	ID	Drift	Capacity (B/F)	Burst (psi)	Collapse (psi)
7" 29# P-110 LT&C	0-2461'	6.184"	6.059"	.0371	11220	8510
7" 29# S-95 LT&C	2461-11999'	6.184"	6.059"	.0371	9690	9200
5" 18# N-80 SFJP	11716-13878'	4.276"	4.151"	.0177	10140	10490
5" 18# SOO-95 SFJP	13878-15270'	4.276"	4.151"	.0177	12040	12010

Present Status: Well P&A'd 1/18/90.

RECOMMENDED PROCEDURE

1. MIRU workover rig. (Note: Give State of Utah 24-hour notice prior to moving in.)

2. Dig out cellar. Weld on 7" 26-29# S-95 landing joint & horse collar to 9⅝" csg. Install 7" 5000# csg head flange. NU 6" 5000# WP BOP's (7-1/16" bore).

3) RIH w/6" drag bit. Drill out surface plug @ surface to 200'. Pressure test 7" csg above 5500' to 2000#. Drill out cmt plug @ 5500-5940' (440'). RIH & CO 7" csg to PBTD @ 9560'. Pressure test 7" csg to 2000#. If 7" csg leaks, consider Casing Inspection Log and squeeze as needed. POH w/bit.

4) Run a GR/CBL log from 9560' to surface w/2000# to determine cmt coverage.

5) From the CBL log, perf 7" csg & set a cmt retainer to isolate the proposed Upper Green River perfs @ ±5900-6400'. Squeeze w/necessary cement as required.

6) Perf & set a cmt retainer to isolate the proposed Uinta perfs @ ±3700-5800'. Squeeze with necessary cement as required. WOC.

7) PU 6" mill & drill out squeezes. Pressure test each to 2000# after drillout. Circulate & condition hole. POH.

8) Run a GR/CBL log across proposed zones of interest w/2000#. Re-squeeze as necessary.

9) Run a SDT/CNL/GR Digital Sonic log from 8000' to surface to determine proposed injection zones in well. (Note: No open hole logs were run above 5841' due to hole problems.)

10) RU wireline w/lubricator. Perforate the proposed Uinta selectively @ ±3700-5800' and the Upper Green River (TGR1) @ ±5900-6400' @ 4 SPF w/4" csg gun. Correlate to the SDT Sonic log.

11) RIH w/Mtn States retrievable pkr & bridge plug on 2⅞" tbg. Isolate perforated intervals @ 3700-5800' and 5900-6400' and swab test separately for analysis of formation water as required by the State of Utah and BLM.

12) Set pkr above all zones @ ±3500'. Acidize Uinta & Upper Green River zones w/16,000 gal 15% HCl + rock salt & BAF (diverter) in 4 stages.

    Note: A) All acid to contain inhibitor, friction reducer, iron sequestering agent and surfactant.
    B) Pump at max possible rate (12-15 BPM), not to exceed 5000 psi.
    C) Hold 2000 psi on csg during job.

13) POH w/pkr & RBP.

14) PU 3½" "F" nipple (PC), 4' - 3½" pup jt (PC), Mtn States Lok-set pkr (PC) w/on-off tool and 3½" 9.3# J-55 8rd tbg (internal coated w/Duoline-20 fiberglass & Threadmaster MMS couplings, Burst 6980 psi, Collapse 7400 psi, Tension 142,000#, max temp 300°F). Pressure test tbg to 5000 psi. Circ treated, non-corrosive production water for pkr fluid. Set pkr @ ±200' above uppermost perf w/18-20,000# tension. Test annulus to 2000 psi.

15) Land tbg. ND BOP, NU injection WH. RDMO rig.

16) Establish step-rate injectivity test into the Uinta & Upper Green River injection intervals to determine maximum allowable injection pressure.

17) Hook up injection pump & lines. Install SWD battery.

18) Obtain SWD permit.

19) Place well on saltwater injection.

EXHIBIT "M1"

SUBMIT IN DUPLICATE*

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Shell Oil Company (Rocky Mountain Div. Production)
Walter Duncan

3. ADDRESS OF OPERATOR: 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface: 2334' FNL and 1201' FEL Sec 9
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Tew
9. WELL NO.: 1-9B5
10. FIELD AND POOL, OR WILDCAT: Altamont
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE/4 NE/4 Section 9-T 2S-R 5W
12. COUNTY OR PARISH: Duchesne
13. STATE: Utah

14. PERMIT NO.	DATE ISSUED
43-013-30121	4-14-72

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-15-72	9-3-72	10-7-72	7047 GL, 7073 KB	14'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
15,337	15,150		→	Total	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Wasatch, Flagstaff & No. Horn Transition perfs 13,156-15,137

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SP, BHCS-GR w/cal, FDC-CNL and Csg Cal

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68#	351'	17½"	700 sx	0
9 5/8"	40#	5841'	12¼"	650 sx	0
7"	29#	11,999'	8 3/4"	400 sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	11,716	15,270	701	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

As per attachments

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

ANR 000369

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
10-7-72	flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10-22-72	24	17/64"	→	1632	1489	0	912

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2600	30	→	1632	1489	0	43.9° API

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Used on rig, heater, treaters & remainder flared

TEST WITNESSED BY:

LIST OF ATTACHMENTS: Well Log and History, Csg and Cmtg Details

35. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: K R Duncan TITLE Division Operations Engr. DATE Dec. 12, 19[illegible]

*(See Instructions and Spaces for Additional Data on Reverse Side)

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. Flowing. On 24-hr test, flowed 1413 BO, no wtr and 1609 MCF gas on 14/64" chk w/2800 psi FTP and 40 psi CP. OCT 2 0 1972

Shell-Duncan-Tew 1-9B5
(D)
15,400' Wasatch Test
5" liner @ 15,270'

TD 15,337. PB 15,150. OIL WELL COMPLETE. On 24-hr tests, well flowed as follows from Wasatch, Flagstaff and North Horn Transition perfs 13,156, 13,219, 13,233, 13,296, 13,310, 13,354, 13,368, 13,375, 13,389, 13,401, 13,415, 13,432, 13,444, 13,497, 13,522, 13,560, 13,569, 13,618, 13,630, 13,643, 13,685, 13,705, 13,722, 13,738, 13,768, 13,840, 14,030, 14,056, 14,137, 14,150, 14,191, 14,240, 14,250, 14,442, 14,572, 14,693, 14,725, 14,784, 14,849, 14,859, 14,870, 14,930, 14,955, 14,987, 15,002, 15,032, 15,127:

Rpt Date	BO	BW	MCF Gas	Chk	FTP	CP
10/22	1632	0	1489	17/64"	2600	30

Oil Gravity: 43.9° API @ 60°F.
Test Date: 10/22/72. Initial Prod Date: 10/7/72.
Elev: 7047 GL, 7073 KB
LOG TOPS:

TGR-3	10,100 (-3027)
U. WASATCH TRANSITION	11,665 (-4592)
L. WASATCH TRANSITION	13,220 (-6147)
FLAGSTAFF	13,720 (-6647)
NORTH HORN TRANSITION	14,390 (-7317)

This well was an exploratory stepout which establishes production in the north half of T 2S-R 5W.
FINAL REPORT. OCT 2 3 1972

ANR 00

ANR 000371

EXHIBIT "M2"

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.1842% ANR AFE: 62621
TD: 15,337'
CSG: 5" LINER @ 11,716'-15,270'
PERFS: 10,121'-15,128' (WASATCH & G.R.)
CWC(M$): $185.5

5/24/89 POOH w/tbg & G.L. equip. MIRU. Rel 7" hyd pkr @ 10,044' & rel from 5" FA-1 pkr @ 12,100'. Start POOH.
DC: $2,799 TC: $2,799

5/25/89 RIH w/7" csg scraper. POOH w/7" pkr & 7 G.L. mandrels on 2-7/8" tbg. Start RIH w/7" csg scraper on 2-7/8" tbg.
DC: $2,050 TC: $4,849

5/26-27/89 Prep to C.O. 5" liner. Fin RIH w/7" csg scraper to LT @ 11,716'. POOH. Pmp wtr dwn csg & tbg. RIH w/5" pkr milling tool on 2-7/8" x 2-3/8" tbg. Mill over 5" pkr. Work pkr extensively to free. POOH w/5" pkr milling tool & BHA.
DC: $12,907 TC: $17,756

5/30/89 Prep to set 5" CIBP. RIH w/4-1/8" mill & C.O. tools on 2-7/8" x 2-3/8" tbg. C.O. 5" liner to 15,072'. POOH.
DC: $4,013 TC: $21,769

5/31/89 Tag cmt top. RIH set 5" CIBP @ 13,480' on W.L. RIH w/4-1/8" bit on 2-7/8" x 2-3/8" tbg & tag CIBP. Pmp 40 BW dwn tbg. Spot 50 sxs Class "G" cmt plug. Flush w/60 BW. POOH to LT. Pmp 23 BW dwn tbg.
DC: $9,409 TC: $31,178

6/1/89 Tag cmt top. RIH w/4-1/8" mill & tag cmt top @ 13,473'. Spot 75 sxs Class "G" cmt w/add. Flush w/35 BW. POOH to LT.
DC: $7,427 TC: $38,605

6/2-3/89 RIH w/drag bit to tag cmt. Tag cmt @ 13,462'. POOH, 12 jts of 2-3/8" plugged w/cmt. Spot 75 sxs Class "G" cmt w/add.
DC: $9,589 TC: $48,194

6/5/89 Drlg cmt. RIH, tag cmt top @ 12,680'. Drl cmt from 12,680-12,690'. Fell thru to 12,710'. Drl spotty cmt to 12,972'. Hit hard cmt. Drl hd cmt to 13,071'.
DC: $2,227 TC: $50,421

6/6/89 RIH w/pkr to tst sqz. Drl hard cmt to 13,260'. POOH w/CO tools.
DC: $3,014 TC: $53,435

6/7/89 RIH w/7" RBP on WL. Fin POOH w/drag bit. PU & RIH w/pkr. Set pkr @ 13,246'. Tst sqz perfs from 13,260'-13,480' to 2000 psi - held. POOH.
DC: $3,753 TC: $57,188

6/8/89 PU & RIH w/RBP & pkr on tbg. TIH w/WL, set RBP. Could not get below 5732' due to wax buildup. POOH w/RBP.
DC: $5,044 TC: $62,232

6/9-10/89 Press tst WH assembly for leak. Pmp 60 BW dwn csg. RIH w/7" RBP & pkr on 2-7/8" tbg. Set RBP @ 11,519'. Press tst plug to 2000#. OK. Set pkr @ 10,089'. Est inj rate @ 2.8 BPM @ 600# into sqz perfs @ 10,121'-11,483'. Csg appears to have leak. Reset pkr to isolate csg leak @ 6004'-6035'. POOH w/pkr & retr hd. Dump 2 sxs sd on RBP @ 11,506'. Ran CCL across csg leak. RIH w/7" pkr & RBP. Set RBP @ 10,068'. Tst plug to 2000#. OK. Est inj rate @ 3.9 BPM @ 900#. POOH w/pkr. Dump sd on RBP @ 10,068'. Est communication w/9-5/8" & 7" csg. WH appears to communicate.
DC: $10,242 TC: $72,474

6/11/89 Prep to set CICR above csg leak. Set 7" pkr @ 30'. Press tst WH assembly. ND BOP & csg spools. Repair WH.
DC: $2,144 TC: $74,618

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

6/13/89 Prep to CO 7" csg. RIH & set CICR @ 5710' on WL. RIH w/CICR stinger on 2-7/8" tbg. Press tst 7" csg to 2000#. OK. Circ 9-5/8" csg w/160 BW. Pmp 300 sxs Cl "G" hyfill cmt & 200 sxs neat cmt. Displ cmt to CICR. POOH w/CICR stinger on 2-7/8" tbg. RIH w/6-1/8" mill on 2-7/8" tbg to 5000'.
DC: $12,913 TC: $87,531

6/14/89 CO 7" csg. Fin RIH w/6-1/8" mill on 2-7/8" tbg to CICR @ 5710'. DO CICR. Circ well clean.
DC: $3,484 TC: $91,015

6/15/89 CO 7" csg. DO CICR. Rec'd slip assmbly. Cone spinning. Circ hole clean. POOH w/6-1/8" mill on 2-7/8" tbg. RIH w/new 6-1/8" mill on 2-7/8" tbg. Circ hole clean.
DC: $2,864 TC: $93,879

6/16-17/89 CO 7" csg. CO 7" csg from 5710' to 5718'. Mill worn out. POOH w/6-1/8" mill on 2-7/8" tbg. Mill plugged w/iron. RIH w/new 6-1/8" mill on 2-7/8" tbg. CO 7" csg to 5812'. Circ hole clean. CO 7" csg to 6002'. Circ hole clean.
DC: $4,001 TC: $97,880

6/19/89 CO 7" csg. CO 7" csg from 6002' to 6071'. Circ hole clean. Press tst csg sqz to 2000#. Est inj rate @ 2.7 BPM @ 1800#. Spot 200 sxs Cl "G" cmt across csg leak. POOH to 4700'. Rev tbg clean w/45 BW. Bradenhead sqz cmt to 2000# w/24 BW.
DC: $7,948 TC: $105,828

6/20/89 CO 7" csg. SICP 1400#. 9-5/8" csg on vac. RIH w/6-1/8" bit. Tag cmt top @ 5754'. CO 7" csg to 5942'. Cmt still soft. Press sqz to 2000#.
DC: $1,200 TC: $107,028

6/21/89 Prep to resqz. DO cmt from 5942'-6074'. Press tst sqz to 2000 psi. WO success. POOH to 6025'.
DC: $1,615 TC: $108,643

6/22/89 DO cmt. Fill hole w/4 bbls. Pmp 150 sxs CL "G" cmt. POOH w/36 jts tbg. Rev out. SI tbg. Sqz to 3000#. SWI w/3000#. RD Howco.
DC: $6,309 TC: $114,952

6/23-24/89 DO cmt. TIH & tag cmt @ 5289'. Drld out cmt 5289'-6002'.
DC: $4,201 TC: $119,153

6/26/89 POOH w/RBP. DO cmt from 6002'-6110'. Fell thru. Press tst sqz to 2000 psi. OK. Tag sd @ 9998'. POOH & LD 6-1/8" drag bit. PU & RIH w/retr hd. PU RBP.
DC: $3,004 TC: $122,157

6/27/89 Prep cmt sqz. LD RBP & retr hd. RIH w/6-1/8" drag bit. Tag sd @ 10,496'. Est inj rate in sqz zone 10,121' to 11,483' @ 4.4 BPM @ 600 psi.
DC: $1,878 TC: $124,035

6/28/89 DO cmt. Bradenhead 300 sxs Cl "G" cmt w/add into perfs from 10,121' to 11,483' w/2000 psi. POOH.
DC: $12,184 TC: $136,219

6/29/89 DO cmt. Tag cmt top @ 9809'. DO cmt top @ 9809'. DO cmt from 9809' to 10,212'.
DC: $2,809 TC: $139,028

6/30-7/1/89 CO 7" csg. CO 7" csg from 10,212'-10,576'. Circ hole clean. CO 7" csg from 10,576' to 10,730'. Circ hole clean.
DC: $4,081 TC: $143,109

7/3/89 TFNB. CO 7" csg from 10,730' to 10,760'. Circ hole clean. CO 7" csg from 10,760' to 10,885'. Circ hole clean.
DC: $1,867 TC: $144,976

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (PLUG OFF WTR, SQZ G.R. PERFS, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

7/5/89 CO 7" csg. POOH w/6-1/8" bit on 2-7/8" tbg. RIH w/new 6-1/8" bit on 2-7/8" tbg. CO 7" csg from 10,885' to 10,955'. Circ hole clean.
DC: $2,603 TC: $147,579

7/6/89 CO 7" csg. CO 7" csg from 10,955' to 11,275'. Circ hole clean.
DC: $2,134 TC: $149,713

7/7/89 POOH w/6-1/8" bit on 2-7/8" tbg. CO 7" csg from 11,275' to 11,496'. Tag sd. Press tst sqz perfs to 2000#. Bleed of 300#/5 mins. Hold constant. Circ hole clean.
DC: $2,019 TC: $151,733

7/10/89 Prep to perf. Circ hole clean w/420 BW. POOH w/6-1/8" bit on 2-7/8" tbg. RIH w/retr hd on 2-7/8" tbg & latch RBP. POOH w/RBP & retr hd.
DC: $3,750 TC: $155,483

7/11/89 Prep to acdz. Perf Wasatch form @ 11,757' to 13,240' (77 zones) w/3-1/8" csg guns, 120° phase, 3 SPF. RIH w/5" pkr on 2-7/8" tbg & set @ 11,744'. Press tst csg to 2000#. OK.
DC: $13,666 TC: $169,149

7/12/89 Place well on GL prod. Acdz Wasatch form w/10,000 gals 15% HCl + add w/348 - 1.1 BS + diverters. ATP 7900#, AIR 13.5 BPM, ISIP 1340#, 10 min 0#. 395 BLWTR. Good diversion. POOH w/5" pkr. RIH w/7" pkr & SN on 2-7/8" tbg w/9 GL mandrels. Set pkr @ 10,456'. ND BOPS. Land tbg w/20,000#.
DC: $23,805 TC: $192,954

7/13/89 Place well on GL prod. NU WH. RDSU. 15 BO, 775 BW, 26 MCF, 412 inj/13 hrs.

7/14/89 16 BO, 1140 BW, 213 MCF, 620 inj.

7/15/89 13 BO, 1251 BW, 97 MCF, 675 inj.

7/16/89 15 BO, 1176 BW, 122 MCF, 650 inj.

7/17/89 20 BO, 1294 BW, 125 MCF, 600 inj.

7/18/89 13 BO, 1307 BW, 122 MCF, 415 inj.

7/19/89 12 BO, 1350 BW, 126 MCF, 645 inj.

7/20/89 10 BO, 1210 BW, 95 MCF, 197 inj.

7/21/89 5 BO, 1280 BW, 104 MCF, 205 inj.

7/22/89 4 BO, 1203 BW, 75 MCF, 220 inj.

7/23/89 5 BO, 1285 BW, 88 MCF, 208 inj.

7/24/89 0 BO, 0 BW, 0 MCF, 0 inj.

7/25/89 0 BO, 0 BW, 0 MCF, 0 inj.

7/26/89 1 BO, 307 BW, 0 MCF, 295 inj.

7/27/89 5 BO, 320 BW, 24 MCF, 323 inj.

7/28/89 5 BO, 460 BW, 25 MCF, 295 inj.

7/29/89 3 BO, 510 BW, 20 MCF, 175 inj.

Shut well in. Drop from report pending evaluation.

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (P&A)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.1842% ANR AFE: 62882
TD: 15,337' PBTD: 13,260'
CSG: 5" LINER @ 11,716'-15,270'
PERFS: 11,757'-13,245' (WASATCH)
CWC(M$): $44.6

1/12/90 POOH w/GLE. MIRU.
DC: $1,270 TC: $1,270

1/15/90 Fin POOH w/GLE. SITP 500#. Load hole w/300 BW. ND WH. NU BOP's. Start POOH w/GLE.
DC: $2,750 TC: $4,020

1/16/90 Spot cmt plugs. Fin POOH w/GLE. RIH w/7" CICR & set @ 10,000'. Circ hole clean. Press tst 7" csg to 2000#. OK.
DC: $5,145 TC: $9,165

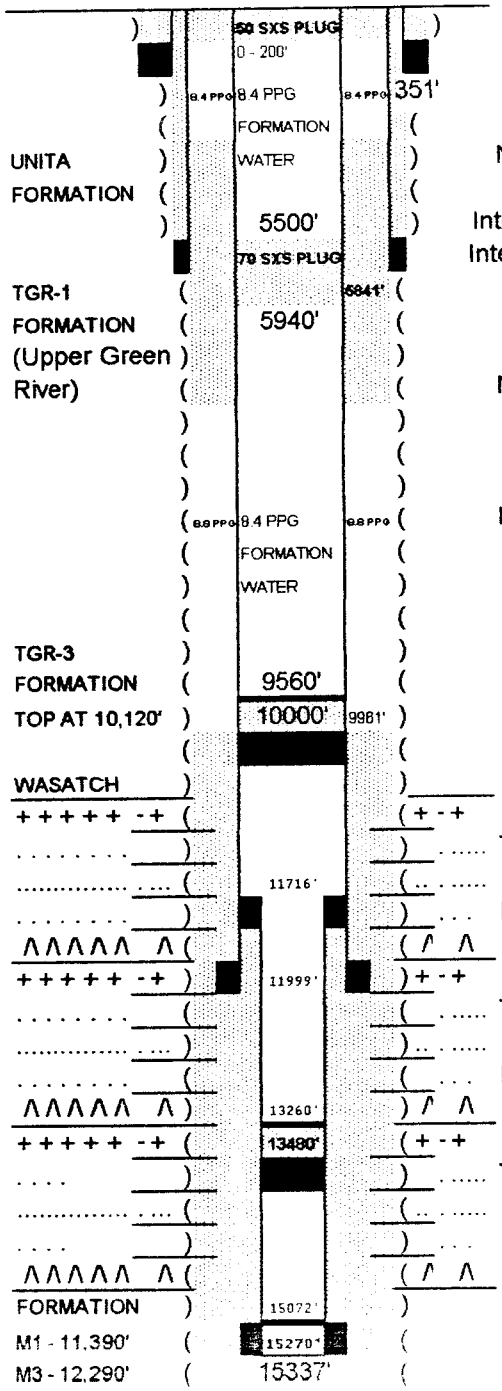
1/17/90 Spot cmt plugs. Spot 75 sx Class "G" cmt plug on CICR from 10,000' to 9560'. Spot 70 sxs Class "G" cmt plug from 5940'-5500'.
DC: $3,025 TC: $12,190

1/18/90 ND BOP's. Fill 9-5/8" x 7" annulus w/cmt. Spot 50 sxs Class "G" plug from 200' - sfc. Cut 7" csg off. Weld on plate. Install DHM. P&A completed @ 3:00 p.m., 1/18/90. Final report.
DC: $11,231 TC: $23,421

EXHIBIT "M3"

WELLBORE DIAGRAM FOR INJECTION WELL
PRESENT SCHEMATIC
(NOT TO SCALE)

Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'



Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"

NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.

Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4"

NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.

NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

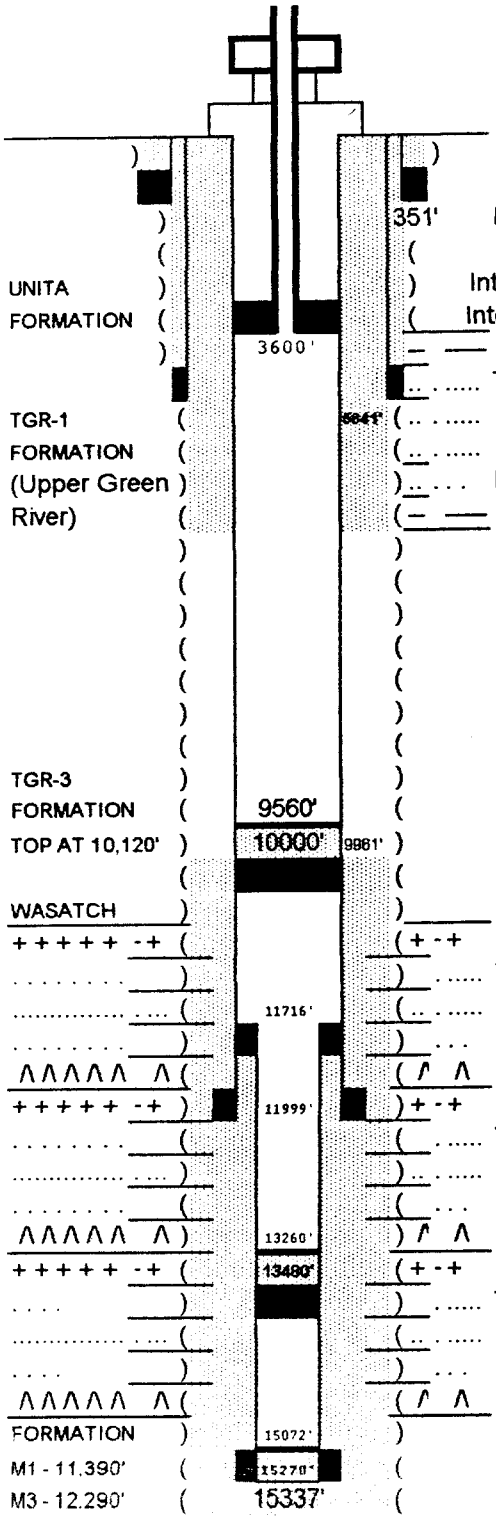
Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

EXHIBIT "M4"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER SETTING IT UP TO INJECT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

SEPA EXHIBIT "Q1"

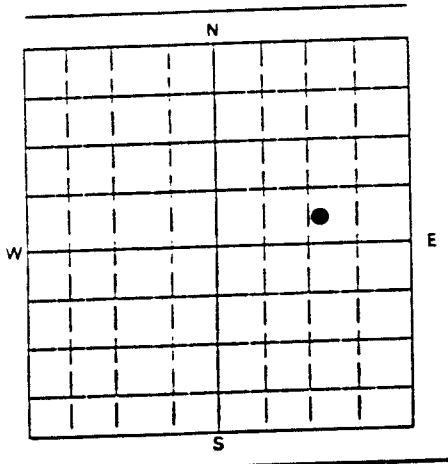
PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY
TEW #1-9B5
SE NE SECTION 9, T2S - R5W
DUCHESNE COUNTY, UTAH

NAME AND ADDRESS OF OWNER OPERATOR
COASTAL OIL & GAS CORPORATION
600 17th STREET, SUITE 800-S
DENVER, CO 80202

STATE: UT | COUNTY: DUCHESNE | PERMIT NUMBER:

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



SURFACE LOCATION DESCRIPTION
¼ OF SE ¼ OF NE ¼ SECTION 9 TOWNSHIP 2S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 2334 ft. from (N/S) N Line of quarter section
and 1201 ft. from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION
- ☒ Individual Permit
- ☐ Area Permit
- ☐ Rule

Number of Wells 1

WELL ACTIVITY
- ☐ CLASS I
- ☒ CLASS II
  - ☒ Brine Disposal
  - ☐ Enhanced Recovery
  - ☐ Hydrocarbon Storage
- ☐ CLASS III

Lease Name TEW

Well Number #1-9B5

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	68	351'	351'	17 1/2"
9 5/8	40	5841'	5841'	12 1/4"
7	29	11,999'	11,999'	8 3/4"
5	18	3554'	3554'	6 1/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS
- ☐ The Balance Method
- ☐ The Dump Bailer Method
- ☐ The Two-Plug Method
- ☒ Other PUMP AND PLUG

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7"	7"					
Depth to Bottom of Tubing or Drill Pipe (ft.)	3600'	surf.					
Sacks of Cement To Be Used (each plug)	500	30					
Slurry Volume To Be Pumped (cu. ft.)	670	40					
Calculated Top of Plug (ft.)	3600'	SURF.					
Measured Top of Plug (if tagged ft.)	----	----					
Slurry Wt. (Lb./Gal.)	14.8	14.8					
Type Cement or Other Material (Class III)	"G"	"G"					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
3700	5800	5900	6400

Estimated Cost to Plug Wells
$10,000

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

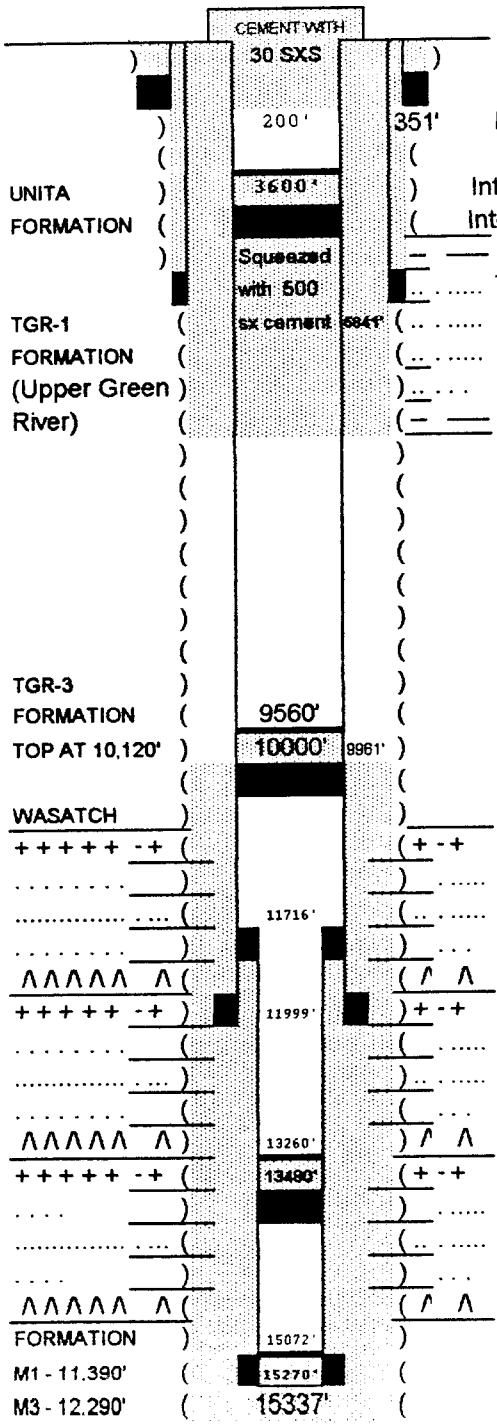
NAME AND OFFICIAL TITLE (Please type or print)
J.L. BARTLEY VICE PRESIDENT

SIGNATURE

DATE SIGNED
10/22/93

EXHIBIT "Q2"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER PLUGGING AND ABANDOMENT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'
Retainer: 3600' with 10 sx cement on top

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

EXHIBIT "V"

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR COASTAL OIL & GAS CORPORATION
ADDRESS P.O. BOX 749
DENVER, CO 80201

Well name and number: TEW #1-9B5

Field or Unit name: ALTAMONT Lease no. _____

Well location: QQ SENE section 9 township 2S range 5W county DUCHESNE

Is this application for expansion of an existing project? . . Yes [] No [X]

Will the proposed well be used for: Enhanced Recovery? . . Yes [] No [X]
Disposal? . . . . . Yes [X] No []
Storage? . . . . . Yes [] No [X]

Is this application for a new well to be drilled? . . . . . Yes [] No [X]

If this application is for an existing well, has a casing test been performed on the well? . . . . . Yes [] No [X]
Date of test: _____
API number: 43-013-30121

Proposed injection interval: from 3700' to 6400'

Proposed maximum injection: rate 15,000 BPD pressure 1100 psig

Proposed injection zone contains [] oil, [] gas, and/or [] fresh water within ¼ mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: EPA PERMIT

I certify that this report is true and complete to the best of my knowledge.

Name R.L. BARTLEY Signature _____
Title VICE PRESIDENT Date 10/22/93
Phone No. (303)572-1121

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

EXHIBIT "V1"

UTAH
DUCHESNE CO.
TALMADGE

PETROLEUM INFORMATION
DENVER CASPER
ROCKY MOUNTAIN
OIL INFORMATION

Twp 2S-5W
Section 9
C NE SW

OPR: Union Oil of California WELL #: 1 Lytel

ELEV: 7077RB

*TOPS: ~~Elec.Log-Sample~~
Green River 5705 (?)

DSTS. & CORES:
DST 6406-96, 2 hrs, rec water cushion 3450' salt water, FP 1100-2000#, SIP 2350#; DST 6490-6618 , 2 hrs, rec 825' 7 & WCM FP 450-1050#, SIP (30") 1060# DST 9748-96, 2 hrs, rec 472' water GCM, FP 900 1005, SIP (30") 3700#

SPUD: 10-20 52 COMPL:
TD: 10,012 PB:
CSG: 13-3/8" @ 1210 w/500
9-5/8" @ 5806
PERF:

PROD. ZONE:

INIT. PROD: Plugged & abandoned

7-2-53.

For Electric Logs on Rocky Mountain Wells—Ask Us!

unknown

PC	M	TWP.	RGE.	SEC.		¼	¼	¼	ST.	CTY.	FIELD	CL		COMPLETION
1	U	2S	5W	9		C	NE	SW	UT	DUC	TALMA	W		99 99 99

DATA CONT'D BELOW | OPERATOR: UNION OIL* | WELL NO. & NAME: 1 LYTEL | ELEVATION: 7077R | TOTAL DEPTH: 10012 | INIT. PROD. | HOURS TESTED | CD.: 1

LOCATION DESCRIPTION: 1980N/S 1980E/W | SPUD: MO 10 DAY 20 52 | SURFACE CASING: 13@1210 | CASING: 95/8@ 5806 | PLUG BACK | REFERENCE CODE

CASING | PERFORATED INTERVALS | GRAVITY | CUT | CHOKE | ASSOC. PROD. BOPD/MCFPD | PROD. FM.

LC	FM	TOP	$	FM	TOP	$	FM	TOP	$	FM	TOP	$
E	GRIV	5705										

*OPR-UNION OIL OF CALIF.---DST 6406-96, 2 HRS, REC WTR CUSHION 3450 FT SW, FP 1100-2000#, SIP 2350#, DST 6490-6618, 2 HRS, REC 825 FT 7 & WCM FP 450-1050#, SIP 30 IN 1060# DST 9748-97, 2 HRS, REC 472 FT WTR GCM, FP 900 1005, SIP 30 IN 3700#.

CODES:
(CL) WELL CLASS: WILDCAT -W, DEVEL. -D; F - FIELD, S - STRAT, D - DEEPENING; X - RECOMPLETION, I - INJECTION, R - REDRILL
(CD) INITIAL PRODUCTION: 1 - D & A, 2 - BOPD FLOW, 3 - BOPD PUMP, 4 - MCFGPD, 5 - B. DIST. PD., 6 - B. COND. PD., 7 - SUSPENDED, 8 - BOPD SWABBED
ABBREVIATIONS: O - OIL, G - GAS, S - SHOW, W - WATER

DATA CONTAINED HEREIN NOT WARRANTED

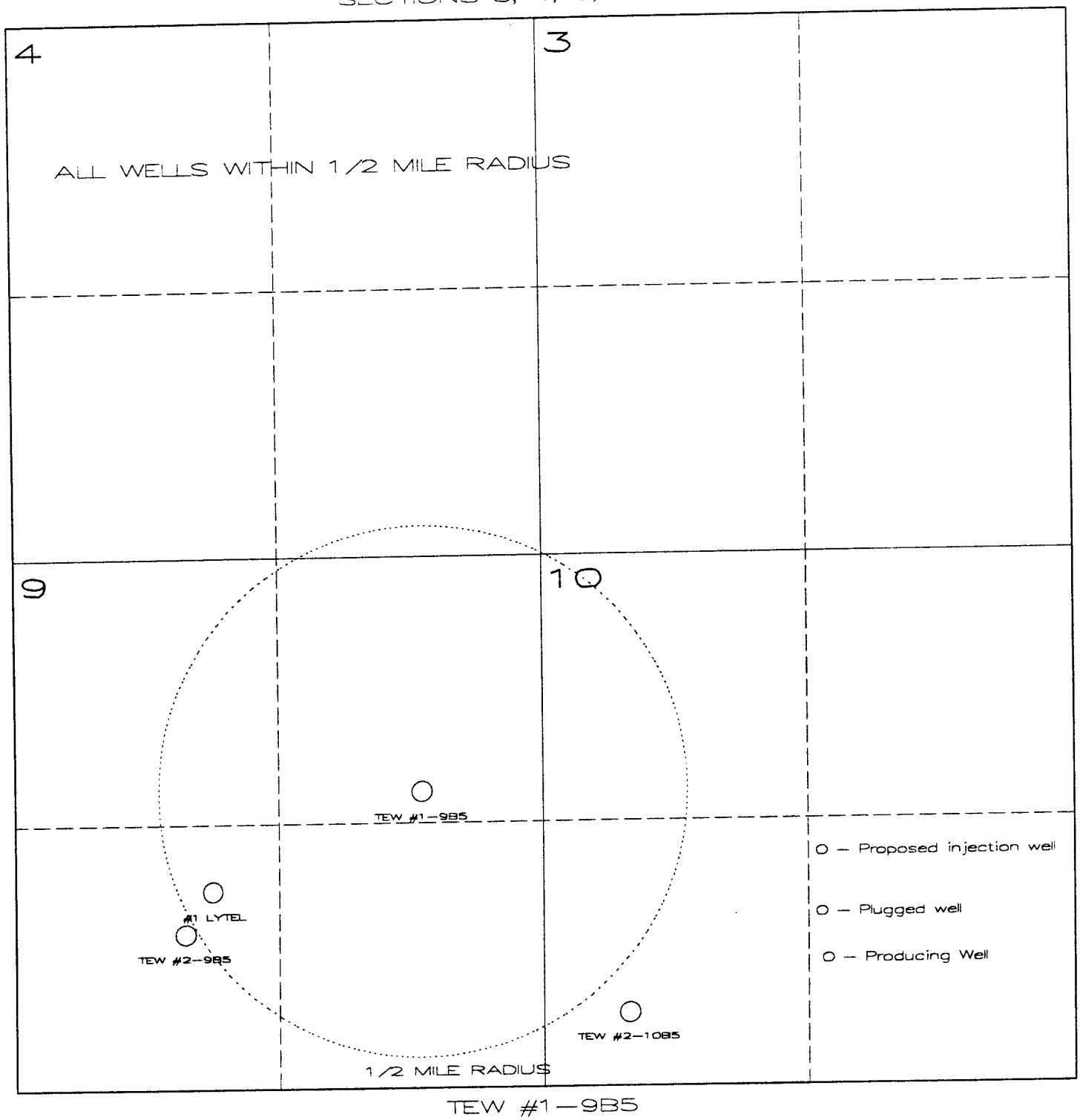
PETROLEUM INFORMATION 1957 WHCS RC-RM-1

EXHIBIT "V2"

COASTAL OIL & GAS CORPORATION

T2S — R5W

SECTIONS 3, 4, 9, and 10



TEW #1—9B5

1201' FEL 2334' FNL SE NE SEC. 9, T2S—R5W

DUCHESNE COUNTY, UTAH

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

January 31, 1994

Coastal Oil and Gas Corporation
P.O. Box 749
600 17th Street, Suite 800-S
Denver, Colorado 80202

Re: Tew 1-9B5 Well, Section 9, Township 2 South, Range 5 West, Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R.649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements regarding operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R.649-1 et seq.

2. Conformance with all conditions and requirements of the application submitted by Coastal Oil and Gas Corporation.

3. Provide notification to the Division at least forty-eight hours prior to commencing the conversion work on the well.

4. Run a cement bond log from 9560' to the surface and perform squeeze cementing operations as necessary to isolate the injection intervals.

5. Swab test the intervals above 5800' and below 5900' separately and obtain representative water samples for analysis. Submit analysis results to the Division so that a determination can be made as to the need for an aquifer exemption prior to commencing injection.

6. Conduct a mechanical integrity test and a step-rate test to obtain frac gradient information.

Following the completion of well conversion work, pressure testing, and other operations and submittal of the required documents to the Division, a final UIC permit will be issued. If you have any questions regarding this approval or the necessary requirements, please contact Dan Jarvis at this office.

Sincerely,

R.J. Firth
Associate Director

ldc
cc: Dan Jackson, Environmental Protection Agency
Bureau of Land Management, Vernal
W602

DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT
DECISION DOCUMENT

Applicant: Coastal Oil and Gas **Well:** TEW 1-9B5

Location: Sec. 9, T.2 S., R.5 W., Duchesne County

Ownership Issues:
The proposed well is located in section 9, township 2 south, range 5 west, Duchesne County, Utah. The surface location is owned by the Tew Family estate, Coastal Oil and Gas is the operator of all leases in the 1/2 mile radius. An affidavit has been filed stating that all surface owners in the 1/2 mile area have been notified.

Well Integrity:
The well proposed for injection is the Tew 1-9B5. This well has a 13 3/8" surface casing set at 351 feet and is cemented to surface. A 9 5/8" intermediate casing was set from surface to 5841 feet and cemented to surface. A 7" liner was set from surface to 11999 feet with a cement top at 9961 feet. A squeeze was performed on the 7" casing from 6004-6035 feet on 1/16/90. Additional squeeze jobs are planned from 5900-6400 feet and from 3700-5800 feet at the time of conversion. The proposed zone of injection lies within the lower Uinta Formation and the upper Green River Formation at a depth of 3700-6400 feet. A 2 7/8' tubing will be set in a packer at 3600 feet. The zones will be perforated and swabbed to obtain a representative sample. There is 1 abandoned well in the 1/2 mile area of review. The abandoned well has proper plug placement to adequately protect any usdw's. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection.

Ground Water Protection:
The base of moderately saline water may be as deep as 7500 feet in the area, it appears that this may be a case where there are zones of fresher water that underlie zones of more saline water. The upper zone of proposed injection lies within the saline facies, the lower zone needs to be swabbed to determine the quality of the water. There are no water wells in the area that penetrate more than 200 feet. Any fresh and usable waters would be contained in the surface alluviums and down into the Duchesne River Formation. The upper confining zone consists of impermeable shale and limestone beds of the Uinta Formation. The lower confining zone consists of shale, limestone, and sand stringers of the Green River Formation. Any shallow fresh water zones will be adequately protected by the existing construction. No corrective action is needed on the offset well.

Oil/Gas & Other Mineral Resources Protection:

Injection into this well should have no adverse affects on any offsetting production. There are no other known mineral interests of concern.

Bonding:

Coastal Oil and Gas has a statewide bond in the amount of $80,000 dollars.

Actions Taken and Further Approvals Needed:

A public notice for the injection well was published in both the Salt Lake Tribune and the Uinta Basin Standard newspaper. No objections to the application were received. The permittee needs squeeze the above mentioned zones, run cement bond logs through and above the proposed zone of injection and swab a representative sample once the casing has been perforated. A step rate test needs to be run to verify the assumed frac gradient of .733 psi/ft..

DJJ
Reviewers

01-24-94
Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

JUN - 3 1994

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. R. L. Bartley
Vice President
Coastal Oil & Gas Corporation
P. O. Box 749
Denver, Colorado 80201

RE: UNDERGROUND INJECTION CONTROL (UIC)
Final Permit UT2722-03788 for
Disposal Injection Well TEW #1-9B5,
Altamont Field, Duchesne County, Utah

Dear Mr. Bartley:

Transmitted herewith is your Underground Injection Control (UIC) **Final Permit for your TEW #1-9B5 SWD (UT2722-03788)** disposal injection well, Altamont Field, Duchesne County, Utah.

The public comment period on the proposed permit action ended on May 27, 1994. There were no comments from either you, the general public, or the landowners who may have been affected by the proposed permit action.

Please note that under the terms of the final permit, you are authorized **ONLY to construct the proposed injection well.** To begin injection, you must fulfill Permit Condition Part II.C.1., Prior to Commencing Injection, and receive notice from the Director to commence injection. In summary, these **Part II.C.1.** requirements for your injection well are:

(a) **Conversion construction is complete** (according to the requirements in Part II. Sections A & B) and the permittee has submitted a **Well Rework Record, Form 7520-12** (in Appendix B); and

(b) The permittee has:

(i) **completed Formation Testing** requirements (Part II, Section A. 5.);

(ii) **demonstrated that the well has mechanical integrity** (Part II. Section C. 2.];

(iii) **submitted a Cement Bond Log**, which identifies adequate bonding above the 1660 foot squeezed zone; and

(iv) **received written notice from the Director that such demonstrations are satisfactory.**

You may telephone the Permit Writer, **Gustav Stolz**, to make the necessary arrangements for EPA to witness the required mechanical integrity test(s).

Please also direct any additional questions you may have to **the attention of Gustav Stolz at Mail Code 8WM-DW**, or you may **telephone him at (303) 293-1416.**

Sincerely,

Max H. Dodson
Director
Water Management Division

Enclosures: Final Permit
Final Statement of Basis

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

FINAL
STATEMENT OF BASIS

COASTAL OIL & GAS CORPORATION

TEW #1-9B5

UIC Permit Number: UT2722-03788

SPECIFIC WELL INFORMATION:

TEW #1-9B5
UT2722-03788
SE NE Section 9, T2S R5W
Altamont Field
Duchesne County, Utah

CONTACT:

U.S. Environmental Protection Agency
Region VIII, 8WM-DW
UIC Implementation Section
999 18th Street, Suite 500
Denver, Colorado 80202-2466
Attention: Gustav Stolz, Jr.
UIC Petroleum Engineer
Telephone: (303) 293-1416

DESCRIPTION OF FACILITY AND BACKGROUND INFORMATION

On October 25, 1993, Coastal Oil & Gas Corporation, Denver, Colorado, made application with the Environmental Protection Agency (EPA) for an underground injection control (UIC) permit. The UIC permit application is for the **disposal injection of Green River and Wasatch Formations produced water from the Altamont-Bluebell Field, Duchesne County, Utah. The proposed injected waters composition range from 18,600 to 36,664 mg/l total dissolved solids** (TDS). These produced waters are to be injected into the converted Plugged and Abandoned (PA) **Altamont Field TEW #1-9B5** well located 2334 feet FNL and 1201 feet FEL (SE NE) Section 9, Township 2 South Range 5 West in Duchesne County, Utah.

Injection shall be for the purpose of disposing of produced Green River and Wasatch Formations water within the Altamont-Bluebell Field. Injection will be into the combined **Uinta Formation interval of 3,700-5,800' and Upper Green River (TGR-1) Formation interval of 5,900-6,400'** injection zones in the existing plugged and abandoned

Altamont TEW #1-9B5 SWD well. **The proposed injection pressure is approximately 790 psig**; this value was calculated assuming a sand-face fracture gradient of 0.65 psi/ft and an injected water Specific Gravity of 1.006. This initially calculated injection pressure may be increased on the basis of data obtained from the required Step Rate Injectivity Test which is to be conducted after injecting for approximately six months. The proposed average injection rate is an **average 400 BWPD (barrels of water per day), with a proposed maximum of 15,000 BWPD of Green River and Wasatch Formations (67,585 mg/l) produced water.** The permittee will be required to **obtain and analyze uncontaminated swab samples of the injection zone fluids** during the completion program and **prior to any fluid injection. The existing formation pore pressure of the injection zone** must also be determined during the well completion program. Results of these tests will be submitted to EPA prior to authorization to inject into the proposed Uinta and Green River Formations intervals. Electric log data (from nearby wells) was used to make water quality calculations for each of the permeable formation intervals above the injection zones to the surface casing shoe. **No underground sources of drinking water (USDWs) exist above or below the proposed injection zones at this location.**

Coastal Oil & Gas Corporation has submitted all required information and data necessary for the issuance of an injection permit in accordance with 40 CFR Parts 144, 146, and 147, and an appropriate draft permit has been prepared.

Based on data submitted by **Coastal Oil & Gas Corporation**, none of the shallower formations (to the surface) are considered underground sources of drinking water (USDW) aquifers under the Environmental Protection Agency (EPA) requirements. The total dissolved solids (TDS) content of each of these ground waters is greater than 10,000 milligrams per liter (mg/l) and cannot be expected to supply a public water system.

The **Altamont TEW #1-9B5** proposed injection facility is located in the **Altamont Field** at **SE/4 of NE/4 of Section 9, T2S R5W.**

The permit will be issued for the operating life of the water disposal injection operation in the Altamont Field area; therefore, no reapplication will be necessary unless the permit is terminated for reasonable cause (40 CFR §§ 144.39, 144.40). However, this permit will be reviewed every five years.

This Statement of Basis gives the derivation of the site specific permit conditions and reasons for them on the basis of the direct implementation regulations promulgated for the Uintah and Ouray Indian Reservation under the UIC program provisions of the Safe Drinking Water Act. The general permit conditions for which the content is mandatory and not subject to site specific differences (based on 40 CFR Parts 144, 146, and 147), are not included in the following discussion.

Part II.
Section A - WELL CONSTRUCTION

Casing & Cementing. (Condition 1)

The conversion details submitted with the permit application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. The casing strings-cement programs for the "as-is" well construction are as follows (assuming the use of Class "B" cement throughout):

(a) The 13 3/8-inch, 68-pound per foot surface casing was cemented to surface in 17 1/2-inch hole from 351' Kelly Bushing (KB) with 700 sacks of Class "B" cement.

(b) The 9 5/8-inch, 40-pound per foot intermediate string casing was cemented in 12 1/4-inch hole from a depth of 5,841' KB to a calculated TOC at 2,074' with 1300 sacks of Class "B" cement. The 9 5/8-inch, 40 pound per foot intermediate string was then perforated at a depth of 1,565' and squeezed to surface with 1200 sacks Class B cement.

(c) The 7-inch, 29-pound per foot production (long string) casing was cemented in 8 3/4-inch hole from total depth (TD) at 11,999' KB to the top of cement (TOC) at approximately 9,961' KB with a total of 400 sacks of Class "B" cement. The 7-inch casing was perforated at 6,004' and 850 sacks Class "G" Hy-Fill cement were squeezed in open hole to the intermediate string shoe at 5,841', and inside the 9 5/8-inch 40-pound per foot intermediate casing string to approximately 200' from the surface after numerous attempts. The 7" - 9 5/8" annulus was then filled with cement pumped from the surface.

(d) The 5-inch, 18-pound per foot liner (casing) was hung in the 7-inch long string casing and in the 6 1/8-inch hole drilled to a Total Depth (TD) of 15,337'. The liner was cemented from the liner hanger (at 11,716') to TD with a total of 701 sacks Class "B" cement; the plugged back total depth (PBTD) is 15,072'.

All cement in the prior construction of the well was designed for the life expectancy of the well. The Plugged and Abandoned (P&A) existing dry hole well is proposed to be re-entered and constructed to injection service with appropriate minor changes in the existing construction. The **0-260' surface plug** inside the 7-inch production casing, and the **5,500-5,900 plug** across the intermediate casing shoe **will be drilled out in the well conversion construction.** The existing 7-inch retainer at 10,000' with the 440', 70 sack-cement cover plug will remain in-place undisturbed, as will the 5-inch bridge plug at 13,480' with 200 sacks of cement on top. These plugs will isolate the original, deep completion perforations.

The specific injection interval and construction modifications will be identified on the **Well Completion Report (EPA Form 7520-10)**.

The proposed Conversion Completion Procedure for the existing Plugged and Abandoned dry hole is included in Appendix A. The **Uinta Sand Formation at 3,700-5,800'** and the **Upper Green River Sand (TGR-1) Formation at 5,900-6,400'** zones will be perforated for water disposal injection service.

Tubing & Packer Specifications. (Condition 2)

Injection tubing of 2 7/8-inch diameter will be utilized with an appropriate packer set at the proposed depth of approximately 3,600' KB inside the 7-inch long string casing. **The permittee is required to set the packer at a distance of no more than 100 feet above the 3,700-foot top injection perforation.** The casing/tubing annulus will be filled with corrosion-inhibited fresh water. Injection between the wellbore and the outermost casing protecting the underground sources of drinking water (USDWs) is prohibited.

Formation Logging and Testing. (Condition 3)

The tubing/casing annulus will be **mechanical integrity tested prior to commencing injection.** The **Uinta and Upper Green River (TGR-1) Formations pore pressures must be determined,** and **uncontaminated (swab) samples of the injection formations waters must be obtained for analyses before authorization to inject will be granted.** EPA has assumed the **0.65 psi/ft** generic fracture gradient **as applicable for the Unita and Upper Green River (TGR-1) Formations** because no documented value was submitted. The operator is required to conduct and submit a report on his **Step Rate Test within six (6) months of authorization to inject** to identify the injection zone fracture pressure; he may then request an increased injection pressure authorization. No additional formation logging or testing will be required prior to authorization to inject.

Monitoring Devices. (Condition 4)

In order to allow a representative of EPA to inspect the well and take injection pressure measurements, the Agency is requiring the operator to install at the time of well conversion and maintain in **good operating condition** all monitoring equipment. Included are: a) An injection fluid **sampling tap** on the discharge line between the injection pump and the wellhead; b) appropriate fittings, isolated by plug or globe valves, for the attachment of either permanent **one-half (1/2) inch MIP gauges,** or **equivalent "quick-disconnect" gauges on the injection tubing for injection pressure measurement and on the tubing/casing annulus** for indicating potential mechanical integrity problems; and c) a **non-resettable flow meter** for injection rate and cumulative volume measurements.

Section B - CORRECTIVE ACTION

There are no wells located within the one-quarter-mile-radius Area Of Review (AOR) of the proposed **Altamont TEW #1-9B5** injection well which have penetrated the proposed injection intervals.

Therefore, the permittee **will not be required to take corrective action** on any wells within the one-quarter-mile-radius AOR because there are none.

Section C - WELL OPERATION

Prior to Commencing Injection. (Condition 1)

As-built and rework construction details have been submitted and verify adequate well construction (included in Appendix A) for the protection of underground sources of drinking water (USDW) prior to injection service.

Mechanical Integrity. (Condition 2)

The Natural Duck #2-15 GR injection well must pass a witnessed **tubing/casing annulus mechanical integrity test conducted at a pressure of at least 300 psig,** for the purpose of demonstrating integrity of the casing, tubing, and packer prior to commencing injection.

Demonstrations of **mechanical integrity** of the injection casing, tubing and packer **will also be conducted within 30 days after any workovers/alterations (any unseating of packer) and prior to recommencing injection.**

Injection Intervals. (Condition 3)

Produced water disposal injection will be limited to the combined injection zone intervals of the **Uinta Formation (3,700-5,800')** and **the Upper Green River (TGR-1) Formation (5,900-6,400')**. The upper confining zone is comprised of thick (over 800 feet), impermeable sections of the Uinta (Eocene Age) Shale with thin interbedded, dense siltstones in the interval of 2,900-3,700'. The lower confining zone is comprised of a greater-than 300-foot sequence of impermeable, vari-colored bentonitic shales interbedded with thin, dirty siltstone stringers (6,400-6,780') which lie immediately below the Upper Green River (TGR-1) Sand Formation. The proposed injection interval of the combined Uinta and Green River (TGR-1) Sand Formations is, therefore, adequately isolated (both above and below) from other permeable intervals, none of which are USDWs (See Technical Publication No. 92, State of Utah). Further, approximate water salinity calculations, both in and above the proposed injection zones, indicated the absence of USDWs (TDS greater than 10,000 mg/liter).

Injection Pressure Limitation. (Condition 4)

The applicant requested a maximum surface injection pressure of 1,100 psig. **A permitted surface injection pressure of 790 psig** corresponds to EPA calculated formation fracture pressure gradient of approximately 0.65 psi/ft; this is considered a reasonable value for the Uinta/Green River Sand Formation intervals until such time the formation fracture pressure is determined with a Step-Rate Injectivity Test (to be performed within six (6) months of authorization to inject). **A surface injection pressure greater than the permitted 790 psig will be permitted only after further demonstration that such injection pressure will not exceed the fracture pressure of the Uinta/Green River (TGR-1) Sand Formation injection intervals.** The permitted 790 psig maximum allowable injection pressure is considered adequate to protect any possible USDWs.

Assumed: Sand-face Frac Grad = 0.65 psi/ft

Psf = (Frac Grad)(d) = (0.65)(3700)
Psf = 2405 psig

Calculate: Pmax (surface) using injection fluid
Sgw = 1.009 (@ 8900 mg/l TDS)

Pmax = Psf - Phd = 2405 - (d)(.433)(Sgw)
= 2405 - (3700)(.433)(1.009) = 2405 - 1615
Pmax = 790 psig (at the surface)

Calculate: **Sand Face Fracture Gradient using Pmax = 1100 psig (operator proposed)**

Frac. Grad. = [(Pmax + Phd)] ÷ d
= [1100 + (3700)(1.009)] ÷ 3700
= [1100 + 3733] ÷ 3700
= 4833 ÷ 3700 = 0.765
Frac. Grad. = 0.765 psi/ft

Where: Pmax = maximum injection pressure at wellhead, psig
Sgw = 1.009, specific gravity of injected water
d = injection depth, feet
0.433 = fresh water pressure gradient, psi/ft

Injection Volume (Rate) Limitation. (Condition 5)

The permit requires no **limitation of the volume rate nor total cumulative volume** of fluid injection into the Uinta and Green River Sand Formations in this well because the injection zones capacity is essentially unlimited and because no USDWs are present.

Section D - MONITORING, RECORDKEEPING & REPORTING OF RESULTS

Injection Well Monitoring Program. (Condition 1[a])

The permittee is required to **analyze and report the water quality of injected fluids at annual intervals.** The periodic water samples of injected fluids shall be analyzed for Total Dissolved Solids (TDS), major ions, pH, Specific Conductivity, and Specific Gravity, as will those when the source of injection fluid changes.

Section E - PLUGGING AND ABANDONMENT

Plugging & Abandonment Plan. (Condition 2)

The **Plugging and Abandonment Plan** submitted for the proposed injection well by the applicant as part of the permit application has been reviewed and is considered to adequately protect any USDWs, if present. This **Plan** is incorporated into the permit, and shall be binding on the permittee.

The Plugging and Abandonment Plan using Class "G" cement with 2% bentonite is as follows:

1. **PLUG #1 - A 2800-foot, 500-sack Plug #1 (3,600-6,400')** will be squeezed through a cement retainer set at 3,600' to completely cover the 3,700-6,400' perforated intervals, and fill the long string below the cement retainer; the excess tubing cement will be dumped above the cement retainer. This Plug #1 will be set inside the 7" 29# casing.

2. **Plug #2 - A 200 foot, 30-sack Plug #2 (0-200')** will be set at the surface inside the 7" 29# long string casing to the surface; the 7"-9 5/8" annulus was previously circulated to surface.

3. **A "dry-hole" marker** will be cemented inside the 7" long string casing at the surface.

Section F - FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan.

(a) The permittee has submitted an acceptable **$10,000 Surety Performance Bond #U605243-56, United Pacific Insurance Company, Philadelphia, Pennsylvania**, together with a companion **Standby Trust Agreement, Texas Commerce Bank (N.A.) Houston, Texas, Trustee**, which demonstrate the permittee's financial responsibility for plugging and abandonment requirements. **It is dedicated to the Plugging and Abandonment of the Altamont TEW #1-9B5 well in the event of operator default** and has been submitted by the permittee, **Coastal Oil & Gas Corporation.** This surety provides adequate financial resources, as determined by EPA to close (P&A) this injection well in accordance with the approved P&A Plan. This will serve as a demonstration of financial responsibility for the plugging and abandonment of this permitted injection well, has been incorporated into the permit, and shall be binding on the permittee. The permittee estimated that plugging and abandonment (including third party) costs for the **Altamont TEW #1-9B5** injection well will be approximately $10,000.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

UNDERGROUND INJECTION CONTROL (UIC)

FINAL PERMIT

Class II Salt Water Disposal Well

Well Name: TEW #1-9B5

Permit No. UT2722-03788

Field Name: Altamont Field

County & State: Duchesne County, Utah

Issued To

COASTAL OIL & GAS CORPORATION

P.O. Box 749

Denver, Colorado 80202

TABLE OF CONTENTS

PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control (UIC) Regulations of the U.S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 146, and 147,

Coastal Oil & Gas Corporation
600 17th Street, Suite 800-S
Denver, Colorado 80202

is hereby authorized to re-enter and convert the plugged and abandonded (PA) well **TEW #1-9B5** to a UIC Class IID salt water disposal well. The **TEW #1-9B5 proposed injection** well is located **2334 feet from the North Line and 1201 feet from the East Line (SE/4 NE/4) Section 9, Township 2 South, Range 5 West in the Altamont-Bluebell Field, Duchesne County, Utah.** Injection shall be for the purpose of disposing of produced Green River and Wasatch Formations water within the Altamont-Bluebell Field, in accordance with conditions set forth herein. Disposal injection will be into the **combined injection zone intervals of the Uinta Formation (3,700-5,800') and the Upper Green River (TGR-1) Formation (5,900-6,400').** If not converted within one (1) year from the effective date of this permit, the proposed injection well shall be plugged and abandoned according to Permit Condition II.A.6.

Injection activities for this proposed injection well shall not commence until the operator has fulfilled all applicable conditions of this permit and has received written authorization from the Director. **"Prior to Commencing Injection"** requirements are set forth in Part II, Section C.1. of this permit.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of thirty-three (33) pages and includes all items listed in the **Table of Contents.** Further, it is based upon representations made by the permittee and on other information contained in the administrative record.

This permit and the authorization to inject are being issued for the operating life of the well, unless terminated (Part III, Section B); authorization to inject shall **automatically expire due to prolonged postponement of conversion/construction (Part II, Section A.6.).** The permit will be reviewed by EPA at least every five (5) years to determine whether action under 40 CFR §144.36 (a) is warranted.

The State of Utah or the Northern Ute Indian Tribe of the Uintah-Ouray Reservation may apply for primary enforcement responsibility for the UIC program, thereby assuming primary responsibility for regulating this permittee. Notwithstanding approval of the State or Tribal UIC primacy application, EPA retains responsibility for directly administering and enforcing this Federal permit, unless otherwise specifically addressed in the EPA/State or EPA/Tribe Memorandum of Agreement (40 CFR § 145.25). If EPA determines that the State or Tribe has issued an equivalent permit under an EPA approved UIC program, EPA and the permittee may agree to terminate this Federal permit.

Issued this 31st day of May, 1994.

This permit shall become effective May 31, 1994.

* Max H. Dodson
Director
Water Management Division

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION/CONVERSION REQUIREMENTS

1. Casing and Cementing. The conversion details submitted with the permit application are hereby incorporated into this permit as Appendix A, and shall be binding on the permittee. The casing strings-cement programs for the "as-is" well construction are as follows (assuming the use of Class "B" cement throughout):

(a) The 13 3/8-inch, 68-pound per foot surface casing was cemented to surface in 17 1/2-inch hole from 351' Kelly Bushing (KB) with 700 sacks of Class "B" cement.

(b) The 9 5/8-inch, 40-pound per foot intermediate string casing was cemented in 12 1/4-inch hole from a depth of 5,841' KB to a calculated TOC at 2,074' with 1300 sacks of Class "B" cement. The 9 5/8-inch, 40 pound per foot intermediate string was then perforated at a depth of 1,565' and squeezed to surface with 1200 sacks Class B cement.

(c) The 7-inch, 29-pound per foot production (long string) casing was cemented in 8 3/4-inch hole from total depth (TD) at 11,999' KB to the top of cement (TOC) at approximately 9,961' KB with a total of 400 sacks of Class "B" cement. The 7-inch casing was perforated at 6,004' and 850 sacks Class "G" Hy-Fill cement were squeezed in open hole to the intermediate string shoe at 5,841', and inside the 9 5/8-inch 40-pound per foot intermediate casing string to approximately 200' from the surface after numerous attempts. The 7" - 9-5/8" annulus was then filled with cement pumped from the surface.

(d) The 5-inch, 18-pound per foot liner (casing) was hung in the 7-inch long string casing and in the 6 1/8-inch hole drilled to a Total Depth (TD) of 15,337'. The liner was cemented from the liner hanger (at 11,716') to TD with a total of 701 sacks Class "B" cement; the plugged back total depth (PBTD) is 15,072'.

All cement in the prior construction of the well was designed for the life expectancy of the well. The Plugged and Abandoned (P&A) existing dry hole well is proposed to be re-entered and constructed to injection service with appropriate minor changes in the existing construction. The **0-260' surface plug** inside the 7-inch production casing, and the **5,500-5,900 plug** across the intermediate casing shoe **will be drilled out in the well conversion construction.** The existing 7-inch retainer at 10,000' with the 440', 70 sack-cement cover plug will remain in-place undisturbed, as will the 5-inch bridge plug at 13,480' with 200 sacks of cement on

top. These plugs will isolate the original, deep completion perforations.

The specific injection interval and construction modifications will be identified on the **Well Completion Report (EPA Form 7520-10)**.

The proposed Conversion Completion Procedure for the existing Plugged and Abandoned dry hole is included in Appendix A. The **Uinta Sand Formation at 3,700-5,800'** and the **Upper Green River Sand (TGR 1) Formation at 5,900-6,400'** zones will be perforated for water disposal injection service.

2. Tubing and Packer Specifications. A tubing of two and seven-eighths (2 7/8)-inch diameter injection will be utilized with an appropriate packer set at the proposed depth of approximately 3,600' KB inside the 7-inch long string casing. **The permittee is required to set the packer at a distance of no more than 100 feet above the 3,700-foot top injection perforation.** The casing/tubing annulus will be filled with corrosion-inhibited fresh water. Injection between the wellbore and the outermost casing protecting the underground sources of drinking water (USDWs) is prohibited.

3. Monitoring Devices. The operator shall provide at the time of well conversion and maintain in **good operating condition**:

(a) **A tap** on the discharge line between the injection pump and the wellhead for the purpose of **obtaining representative samples** of the injection fluids;

(b) **Two (2), one-half (1/2) inch Female Iron Pipe (FIP) fittings, isolated by plug or globe valves, and located: 1) at the wellhead on the tubing; and 2) on the tubing/casing annulus;** and

(c) **pressure gauges (or "quick-disconnect" gauge fittings) attached the the FIP fittings on:** 1) the tubing/casing annulus to allow for monitoring of the annulus fluid pressure; and 2) the tubing to allow for injection pressure monitoring. The gauges shall be designed to operate at a certified accuracy of ninety-five (95) percent, throughout the range of anticipated injection pressures; and

(d) **A flow meter** with cumulative volume recorder that is certified for at least ninety-five (95) percent accuracy, throughout the range of injection rates allowed by the permit.

4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted well. Major

alterations or workovers of the permitted well shall meet all conditions as set forth in this permit. A major alteration/ workover shall be considered any work performed, which affects casing, packer(s), or tubing.

Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers/alterations and **prior to resuming injection** activities, in accordance with Part II, Section C.2.(a).

The permittee shall provide all records of well workovers, logging, or other test data to EPA within sixty (60) days of the completion of the activity. Appendix B contains samples of the appropriate reporting forms.

5. Formation Testing. When the proposed injection zone(s) are perforated, the well will be swabbed and **uncontaminated, representative water samples** will be taken from each of the two proposed injection zones. The permittee is required to determine the **injection zone fluid pore pressure (static bottom hole pressure).** For the purpose of identifying the current formation fracture pressure, an appropriate and documented **step-rate injectivity test** will be performed by the permittee in the proposed injection zone(s) when stabilized injection rate conditions have been attained and using fluids normally being injected. This step-rate test will be run within six (6) months of the initial date of authorization to inject.

6. Postponement of Conversion. If the well is not constructed for injection service **within one (1) year from the effective date of this permit, the permit will automatically expire, unless the permittee requests an extension.** A written request shall be made to the Director, in lieu of the annual reporting requirements of Part II, Section D. 4., and shall state the reasons for the delay in conversion and confirm the protection of all USDWs. **Such an extension may not exceed one (1) year.**

Financial responsibility shall be maintained during the period of inactivity in accordance with Part II, Section F. Once a permit expires under this part, the full permitting process, including opportunity for public comment, must be repeated before authorization to inject will be re-issued.

B. CORRECTIVE ACTION

The applicant submitted the required **one-quarter mile radius Area Of Review (AOR)** information with the permit application. No wells are located within the AOR of the **TEW #1-9B5** proposed injection well; therefore, no USDWs will be endangered and **no corrective action is required.**

C. WELL OPERATION

1. Prior to Commencing Injection. Injection operations may not commence until the permittee has complied with (a) and (b) as follows:

(a) **Conversion construction is complete** (according to the requirements in Part II. Sections A & B) and the permittee has submitted a **Well Rework Record, Form 7520-12** (in Appendix B); and

(i) The Director has inspected or otherwise reviewed the newly converted injection well and finds it is in compliance with the conditions of the permit; or

(ii) The permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well **within thirteen (13) days** of the date the Director receives the Well Rework Record in paragraph (a) of this permit condition in which case prior inspection or review is waived and the permittee may commence injection. [Note: However, in all circumstances, item (b) below must also be satisfied.]

(b) The permittee has:

(i) **completed Formation Testing** requirements (Part II, Section A. 5.);

(ii) **demonstrated that the well has mechanical integrity (MI)** in accordance with 40 CFR §146.8 and Part II, Section C. 2. below;

(iii) **submitted a Cement Bond Log**, which identifies adequate bonding above the 1660 foot squeezed zone; and

(iv) **received written notice from the Director that such demonstrations are satisfactory.**

2. Mechanical Integrity Demonstration.

(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a **tubing/casing annulus pressure test.** This test shall be for a **minimum of 45 minutes** at: (1) a pressure of **300 pounds per square inch gauge (psig)** measured at the surface, if the well is **shut-in**; or (2) a pressure

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(a) Method of Demonstrating Mechanical Integrity. A demonstration of the absence of significant leaks in the casing, tubing and/or packer must be made by performing a **tubing/casing annulus pressure test.** This test shall be for a **minimum of 45 minutes** at: (1) a pressure of **300 pounds per square inch gauge (psig)** measured at the surface, if the well is **shut-in**; or (2) a pressure

if injection activities are continued during the test. The tubing/casing annulus shall be filled with a non-corrosive fluid (either a non-toxic liquid or the injection liquid) at least 24 hours in advance of the test. Pressure values shall be recorded at five (5) minute intervals. A well passes the mechanical integrity test if there is less than a ten (10) percent decrease (or increase) in pressure over the forty-five (45) minute period.

(b) Schedule for Demonstrations of Mechanical Integrity. A demonstration of **mechanical integrity shall be made at regular intervals, no less frequently than every five (5) years** from the effective date of this permit, in accordance with 40 CFR §146.8 and paragraph (a) above, unless otherwise modified. Initiation of mechanical integrity demonstrations will be according to the following provisions:

(i) It shall be the **permittee's responsibility to arrange and conduct the routine five-year demonstrations.** The permittee shall notify the Director of his intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.

(ii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.

(c) Loss of Mechanical Integrity. If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity as defined by 40 CFR §146.8 becomes evident during operation, the permittee shall notify the Director in accordance with Part III, Section E. 10. of this permit. Furthermore, injection activities shall be terminated immediately; and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.

3. Injection Intervals. As identified in Appendix A, produced brine injection shall be limited to the gross subsurface **Uinta and Upper Green River (TGR-1) Formations intervals, (at approximately 3,700-5,800' and 5,900-6,400' KB).** Additional injection perforations within the gross intervals, may be added

later and shall be reported on EPA Form 7520-12; swab-test uncontaminated fluid samples of the newly perforated Uinta Sand and/or Green River Sand gross intervals must be separately taken, analyzed, and reported.

4. Injection Pressure Limitation.

(a) **Injection pressure, measured at the surface, shall not exceed 790 psig,** an amount that the Director has determined as appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the upper-most injection zone.

(b) The pressure limit in paragraph (a) may be increased and/or decreased by the Director if the permittee demonstrates that the proposed increase in surface injection pressure will not exceed the fracture pressure of the injection zone. This demonstration shall be made by performing a step-rate injection test, using fluid normally injected, to determine both the instantaneous shut-in pressure (ISIP) and the formation breakdown pressure. The Director will determine any allowable increase based upon the step-rate test results and other parameters reflecting actual injection operations.

(c) The permittee shall give thirty (30) days advance notice to the Director if the increase in paragraph (b) will be sought. Details of the proposed test shall be submitted at least seven (7) days in advance of the proposed test date so that the Director has adequate time to review and approve the test procedures. Results of all tests shall be submitted to the Director within ten (10) days of the test. Injection at the increased pressure must be approved by the Director, in writing, before the permittee may begin continuous operation at that pressure.

(d) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made a part of this permit by minor permit modification without further opportunity for public comment.

5. Injection Volume (Rate) Limitation. **There is no limitation on the number of barrels of water per day (BWPD) that shall be injected in this well, provided further that in no case shall injection pressure exceed that limit shown in Part II, Section C.4.(a) of this permit.**

6. Injection Fluid Limitation. The permittee shall not inject any hazardous substances, as defined by 40 CFR Part 261, at any time during the operation of the facility; and further, no substances other than those produced brines from oil and/or gas production in the Altamont/Bluebell Field. However, additional injection fluids will be **limited to occasional minor amounts of well treatment fluids, such as diluted and spent acids, corrosion inhibiting fluids, etc., as related to oil and/or gas production from the Green River and Wasatch Formations in the Altamont/ Bluebell Field area.** The source and composition of any fluids other than those explicitly allowed by this permit must be reported to the Director within thirty (30) days of any change in injection fluids.

7. Annular Fluid. The annulus between the tubing and the casing shall be filled with fresh water treated with a **corrosion inhibiting, oxygen scavenging solution**, or other industry-acceptable solution as approved, in writing, by the Director.

D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Injection Well Monitoring Program. Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR §136.3, or in Appendix III of 40 CFR Part 261, or in certain circumstances, by other methods that have been approved by the EPA Administrator. Monitoring shall consist of:

(a) Analysis of the injection fluids, performed:

(i) **annually** for Total Dissolved Solids, major ions, pH, Specific Conductivity, and Specific Gravity; and,

(ii) whenever there is a **change in the source of injection fluids.**

(b) **Monthly observations** of **injection pressure, tubing/ casing annulus pressure, fluid injection (flow) rate** and **cumulative injected volume.** At least **one observation** of injection pressure, tubing/casing annulus pressure, fluid injection (flow) rate, and cumulative volume, shall be **recorded at regular intervals no greater than thirty (30) days.**

2. Monitoring Information. Records of any monitoring activity required under this permit shall include:

(a) The date, exact place, the time of sampling or field measurements;

(b) The name of the individual(s) who performed the sampling or measurements;

(c) The exact sampling method(s) used to take samples;

(d) The date(s) laboratory analyses were performed;

(e) The name of the individual(s) who performed the analyses;

(f) The results of such analyses.

3. Recordkeeping.

(a) The permittee shall retain records concerning:

(i) the nature and composition of all injected

fluids until three (3) years after the completion of plugging and abandonment which has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix C, and is consistent with 40 CFR § 146.10.

(ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.

(b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a) (i) and (a) (ii) unless he delivers the records to the Director or obtains written approval from the Director to discard the records.

(c) The permittee shall maintain **copies (or originals) of all pertinent monthly recorded information** [Part II., Section D.1.(b)] available for inspection **at the lease facility.**

4. Reporting of Results. The permittee shall **submit an Annual Report, whether injecting or not**, to the Director summarizing the results of the monitoring required by Part II, Section D. 1. of this permit. Copies of all monthly records on injected fluids, and any major changes in characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover the period from the effective date of the permit through December 31. Annual Reports shall cover the period of January 1 through December 31, and shall be submitted **by February 15 of the following year.** Appendix B contains Form 7520-11 which may be copied and used to submit the Annual Report.

E. PLUGGING AND ABANDONMENT

1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before abandonment of the well.

2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan, Appendix C. EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its

permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may request the permittee to estimate and to update the estimated plugging cost periodically. **Such estimates shall be based upon costs which a third party would incur to plug the well** according to the plan.

3. Cessation of Injection Activities. After a **cessation of operations of two (2) years (temporary abandonment)**, the permittee **shall plug and abandon the well** in accordance with the Plugging & Abandonment Plan, **unless** he:

(a) has provided written notice to the Director, and

(b) has demonstrated that the well will be used in the future, and

(c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of **temporary abandonment.**

4. Plugging and Abandonment Report. **Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director.** The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

1. Demonstration of Financial Responsibility. The permittee is required to maintain financial responsibility and resources to close, plug and abandon the injection well as provided in the plugging and abandonment plan. The permittee may, upon his own initiative and upon written request to EPA, change the method of demonstrating financial responsibility. A change in demonstration of financial responsbility must be approved in writing by the Director.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. The permittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR Part 142 or otherwise adversely affect the health of persons. **Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited.** Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local laws or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA), 42 USC Part 300i, or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR §§124.5, 144.12, 144.39, and 144.40. Also, the permit is subject to minor modifications for cause as specified in 40 CFR §144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Conversions. The Director may, for cause or upon a request from the permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Requests to convert the injection well from its Class II status to a non-Class II well, such as a production well, must be made in writing to the Director. Conversion may not proceed until a permit modification indicating the conditions of the proposed conversion is received by the permittee. Conditions of the modification may include such items as, but is not limited to, approval of the proposed well rework, follow-up demonstration of mechanical integrity, and well-specific monitoring and reporting following the conversion.

3. Transfers. This permit is not transferrable to any person except **after notice is provided to the Director and the requirements of 40 CFR §144.38 are complied with.** The Director may require modification, or revocation and reissuance, of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the SDWA.

C. SEVERABILITY

If any provision of this permit or the application of any provision of this permit to any circumstance is stayed or held invalid, all remaining provisions of this permit shall remain fully effective and enforceable, except for those provisions which are not severable from the stayed or invalid provision.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR §144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). EPA will deny any claim of confidentiality including but not limited to the following information:

- The name and address of the permittee, and
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such non-compliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).

2. Penalties for Violations of Permit Conditions. Any person who violates a permit requirement is subject to civil penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to the RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

3. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.

5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

7. Inspection and Entry. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the SDWA any substances or parameters at any location.

8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.

9. Signatory Requirements. All reports or other information requested by the Director shall be signed and certified according to 40 CFR §144.32.

10. Reporting of Noncompliance.

(a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.

(c) Twenty-four Hour Reporting.

(i) The permittee shall **report to the Director any noncompliance** which may endanger health or the environment. **Information shall be provided orally within twenty-four (24) hours** from the time the permittee becomes aware of the circumstances by telephoning EPA at **(303) 293-1413 (during normal business hours)** or at **(303) 293-1788 (for reporting at all other times)**. The following information shall be included in the verbal report:

(A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.

(B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

(ii) A **written submission** shall also be **provided to the Director within five (5) days** of the time the permittee becomes aware of the potential for endangerment to health or environment. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times,

and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part III, Section E. 10. (C) (ii) of this permit.

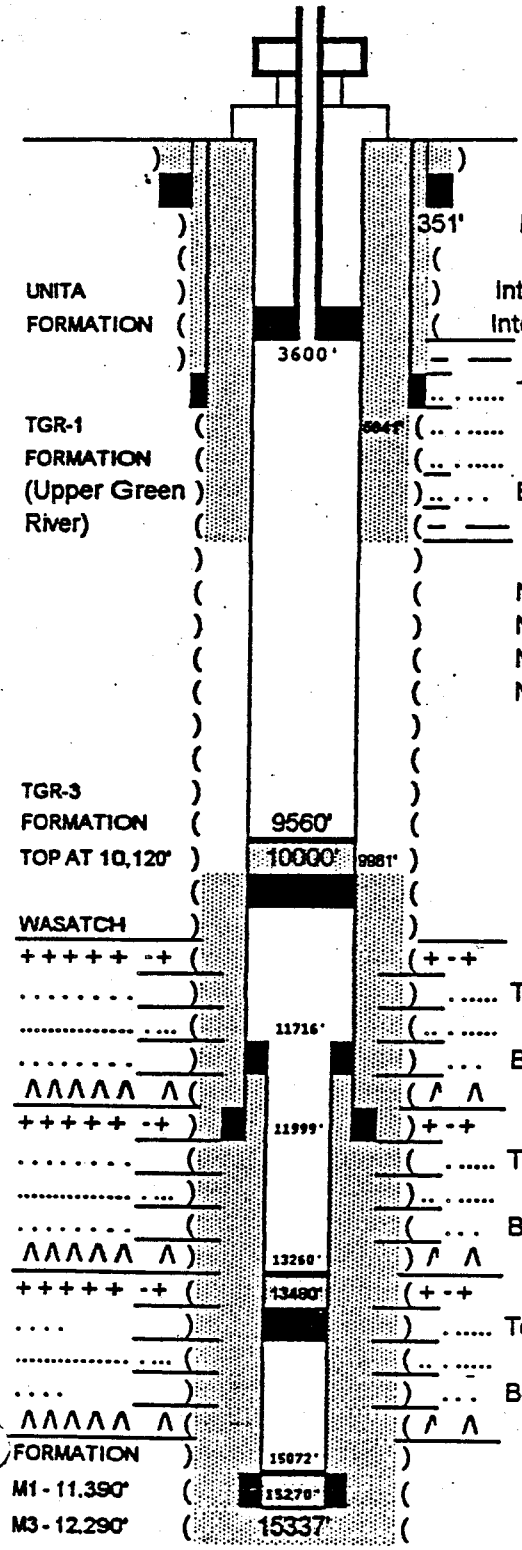
(e) Other Information. Where the permittee becomes aware that he failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information became known to him.

APPENDIX A - CONSTRUCTION PROCEDURES

Converted Construction Schematic

EXHIBIT "M4"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER SETTING IT UP TO INJECT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
351'
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

APPENDIX B - REPORTING FORMS AND INSTRUCTIONS

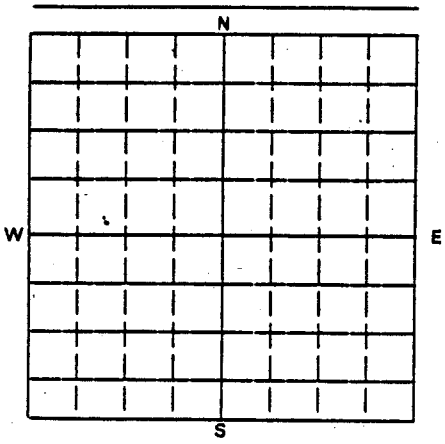
1. EPA Form 7520- 7: APPLICATION TO TRANSFER PERMIT
2. EPA Form 7520-10: WELL COMPLETION REPORT
3. EPA Form 7520-11: ANNUAL WELL MONITORING REPORT
4. EPA Form 7520-12: WELL REWORK RECORD
5. EPA Form 7520-13: PLUGGING RECORD
6. EPA Form 3560-1A: MECHANICAL INTEGRITY PRESSURE TEST

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA APPLICATION TO TRANSFER PERMIT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	WELL STATUS	TYPE OF PERMIT
☐ Class I	☐ Operating	☐ Individual
☐ Class II	☐ Modification/Conversion	☐ Area
☐ Brine Disposal	☐ Proposed	Number of Wells _____
☐ Enhanced Recovery		
☐ Hydrocarbon Storage		
☐ Class III		
☐ Other		

Lease Name Well Number

NAME(S) AND ADDRESS(ES) OF NEW OWNER(S)	NAME AND ADDRESS OF NEW OPERATOR

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

EPA Form 7520-7 (2-84)

ED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

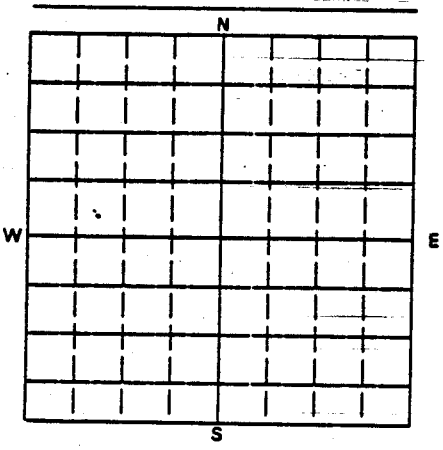
COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

Form Approved
OMB No. 2040-0042
Approval expires 9-30-96

NAME AND ADDRESS OF EXISTING PERMITTEE

NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet

Anticipated Daily Injection Pressure (PSI)		Depth to Bottom of Lowermost Freshwater Formation (Feet)
Average	Maximum	

Type of Injection Fluid *(Check the appropriate block(s))*

- ☐ Salt Water
- ☐ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name	Well Number

Name of Injection Zone

Date Drilling Began	Date Well Completed

Permeability of Injection Zone

Date Drilling Completed

Porosity of Injection Zone

CASING AND TUBING			CEMENT		HOLE	
OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter

INJECTION ZONE STIMULATION		WIRE LINE LOGS, LIST EACH TYPE	
Interval Treated	Materials and Amount Used	Log Types	Logged Intervals

Complete Attachments A — E listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*		DATE SIGNED

EPA Form 7520-10 (2-84)

UIC Permit No. UI2722-03788

Form Approved. OMB No. 2040-0042. Approval expires 3-30-

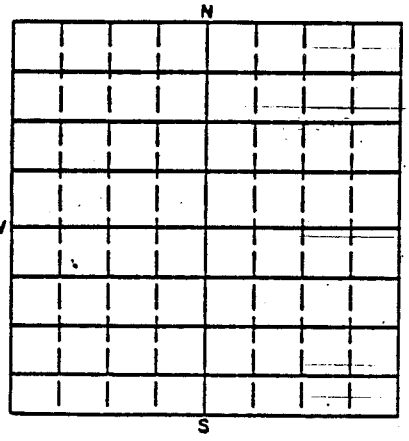
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

NAME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY

- ☐ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT

- ☐ Individual
- ☐ Area

Number of Wells _____

Lease Name Well Number

	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING — CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

Form Approved. OMB No. 2000-0042. Approval expires 9-30-86

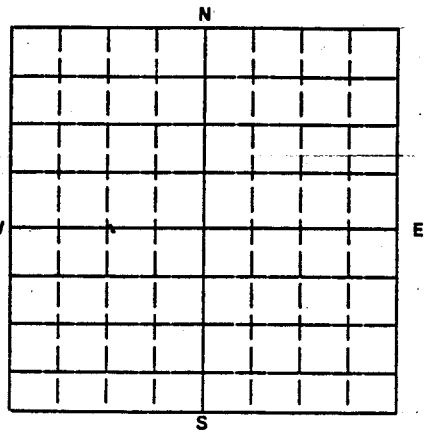
U. D STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CONTRACTOR

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF ¼ OF ¼ SECTION TOWNSHIP RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

WELL ACTIVITY	Total Depth Before Rework	TYPE OF PERMIT
☐ Brine Disposal ☐ Enhanced Recovery ☐ Hydrocarbon Storage	Total Depth After Rework	☐ Individual ☐ Area Number of Wells _____
Lease Name	Date Rework Commenced	Well Number
	Date Rework Completed	

WELL CASING RECORD — BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL USE ADDITIONAL SHEETS IF NECESSARY	WIRE LINE LOGS, LIST EACH TYPE	
	Log Types	Logged Intervals

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

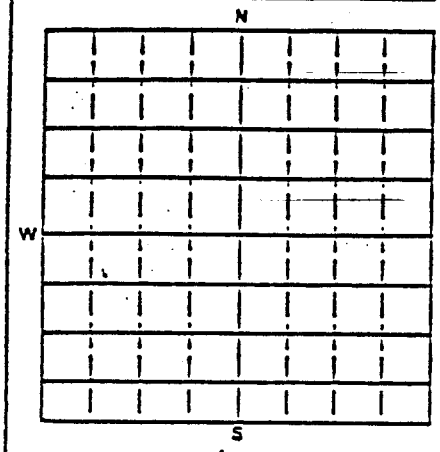
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

EPA

PLUGGING RECOR

NAME AND ADDRESS OF PERMITTEE	NAME AND ADDRESS OF CEMENTING COMPANY

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

¼ OF	¼ OF	¼ SECTION	TOWNSHIP	RANGE

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface Location _____ ft. from (N/S) _____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section

TYPE OF PERMIT

☐ Individual
☐ Area

Number of Wells

Describe in detail the manner in which the fluid was placed and the method used in introducing it into the hole

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT(LB./FT.)	PUT IN WELL (FT.)	LEFT IN WELL (FT.)	HOLE SIZE

WELL ACTIVITY

☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

METHOD OF EMPLACEMENT OF CEMENT PLUGS

☐ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method

Lease Name _____ Well Number _____

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of Hole or Pipe in which Plug Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft.)							
Sacks of Cement Used (each plug)							
Slurry Volume Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS

From	To	From	To

Signature of Cementer or Authorized Representative	Signature of EPA Representative

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. *(Ref. 40 CFR 122.22).*

NAME AND OFFICIAL TITLE *(Please type or print)*	SIGNATURE	DATE SIGNED

Mechanical Integrity Test
Casing or Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness:_____ Date___/___/92 Time_____ am/pm

Test conducted by:_____

Others present:_____

Well:	Well ID:
Field:	Company:
Well Location:	Address:

Time	Test #1	Test #2	Test #3
0 min	_____ psig	_____ psig	_____ psig
5	_____	_____	_____
10	_____	_____	_____
15	_____	_____	_____
20	_____	_____	_____
25	_____	_____	_____
30 min	_____	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____
Tubing press	_____ psig	_____ psig	_____ psig
Result (circle)	Pass Fail	Pass Fail	Pass Fail

Signature of EPA Witness:_____

See back of page for any additional comments & compliance followup.

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APPENDIX C - PLUGGING & ABANDONMENT PLAN

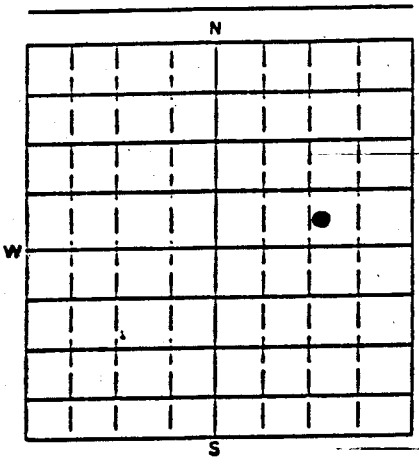
1. Plugging & Abandonment Plan, Form 7520-14
2. Plugging & Abandonment Plan, Narrative
3. Plugging & Abandonment Plan Schematic

NAME AND ADDRESS OF FACILITY
TEW #1-9B5
SE NE SECTION 9, T2S - R5W
DUCHESNE COUNTY, UTAH

NAME AND ADDRESS OF OPERATOR
COASTAL OIL & GAS CORPORATION
600 17th STREET, SUITE 800-S
DENVER, CO 80202

STATE: UT | COUNTY: DUCHESNE | PERMIT NUMBER:

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



SURFACE LOCATION DESCRIPTION
¼ OF SE ¼ OF NE ¼ SECTION 9 TOWNSHIP 2S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 2334 ft. from (N/S) N Line of quarter section
and 1201 ft from (E/W) E Line of quarter section

TYPE OF AUTHORIZATION
- [X] Individual Permit
- [ ] Area Permit
- [ ] Rule

Number of Wells 1

Lease Name TEW

WELL ACTIVITY
- [ ] CLASS I
- [X] CLASS II
  - [X] Brine Disposal
  - [ ] Enhanced Recovery
  - [ ] Hydrocarbon Storage
- [ ] CLASS III

Well Number #1-9B5

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT/LB/FT	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	68	351'	351'	17 1/2"
9 5/8	40	5841'	5841'	12 1/4"
7	29	11,999'	11,999'	8 3/4"
5	18	3554'	3554'	6 1/8"

METHOD OF EMPLACEMENT OF CEMENT PLUGS
- [ ] The Balance Method
- [ ] The Dump Bailer Method
- [ ] The Two-Plug Method
- [X] Other PUMP AND PLUG

CEMENTING TO PLUG AND ABANDON DATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	7"	7"					
Depth to Bottom of Tubing or Drill Pipe (ft.)	3600'	surf.					
Sacks of Cement To Be Used (each plug)	500	30					
Slurry Volume To Be Pumped (cu. ft.)	670	40					
Calculated Top of Plug (ft.)	3600'	SURF.					
Measured Top of Plug (if tagged ft.)	----	----					
Slurry Wt. (Lb./Gal.)	14.8	14.8					
Type Cement or Other Material (Class III)	"G"	"G"					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
3700	5800	5900	6400

Estimated Cost to Plug Wells
$10,000

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print): E.L. BARTLEY VICE ~~PRESIDENT~~

SIGNATURE:

DATE SIGNED: 10/12/93

PAGE 47

PLUGGING AND ABANDONMENT PLAN, NARRATIVE

The Plugging and Abandonment Plan submitted for the proposed injection well by the applicant as part of the permit application has been reviewed and is considered to adequately protect the underground sources of drinking water (USDW).

The Plugging and Abandonment Plan using Class "G" cement with 2% bentonite is as follows:

1. **PLUG #1 - A 2800-foot, 500-sack Plug #1 (3,600-6,400')** will be squeezed through a cement retainer set at 3,600' to completely cover the 3,700-6,400' perforated intervals, and fill the long string below the cement retainer; the excess tubing cement will be dumped above the cement retainer. This Plug #1 will be set inside the 7" 29# casing.

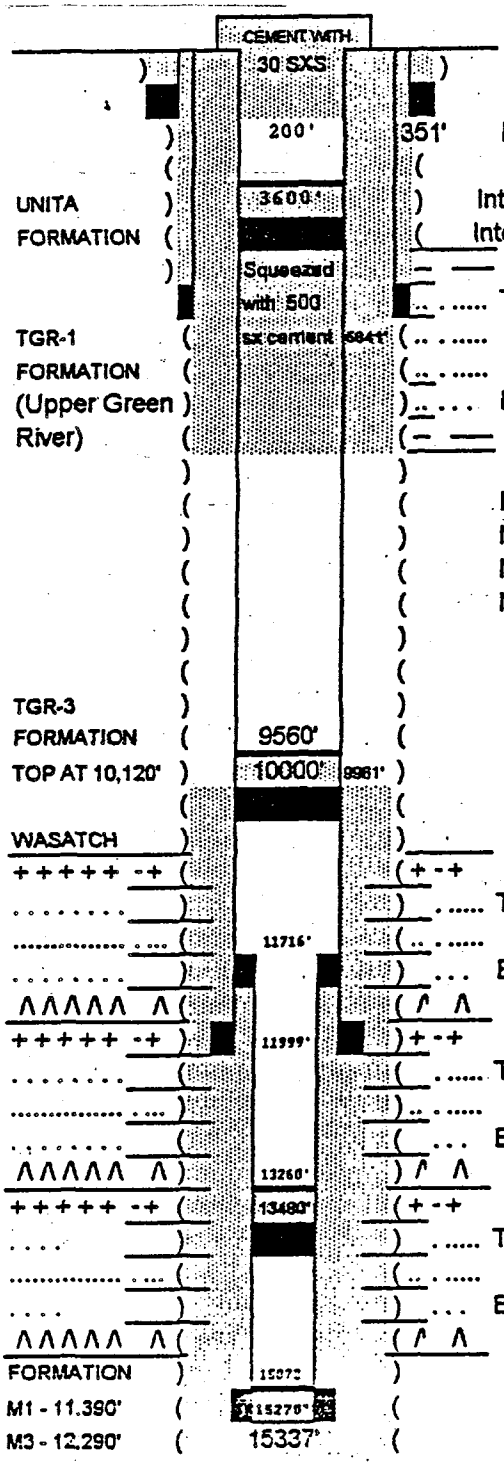
2. **Plug #2 - A 200 foot, 30-sack Plug #2 (0-200')** will be set at the surface inside the 7" 29#" long string casing to the surface; the 7"-9 5/8" annulus was previously circulated to surface.

3. **A "dry-hole" marker** will be cemented inside the 7" long string casing at the surface.

EXHIBIT "Q2"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER PLUGGING AND ABANDOMENT
(NOT TO SCALE)

Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'



Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'
Retainer: 3600' with 10 sx cement on top

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

PAGE 48

FORM 3

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: Patented
6. If Indian, Allottee or Tribe Name: N/A
7. Unit Agreement Name:
8. Farm or Lease Name: Tew
9. Well No.: #1-9B5
10. Field and Pool, or Wildcat: Altamont
11. QQ, Sec., T., R., M., or Blk. and Survey or Area: Section 9-T2S-R5W
12. County or Parrish: Duchesne
13. State: UT

1a. Type of Work: DRILL ☐ DEEPEN ☒ Re-entry PLUG BACK ☐

b. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD Single Zone ☐ Multiple Zone ☒

2. Name of Operator: ANR Production Company

3. Address of Operator: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 2334' FNL & 1201' FEL (SE/NE)
At proposed prod. zone: Same

14. Distance in miles and direction from nearest town or post office*: Well located 11 miles WSW of Altamont, UT.

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1201' FEL
16. No. of acres in lease: 480
17. No. of acres assigned to this well: 480

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: N/A
19. Proposed depth: 9560'
20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 7047' GL, 7073' KB
22. Approx. date work will start*

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13-3/8"	68#	351'	700 sx
12¼"	9-5/8"	40#	5841'	1300 sx
8-3/4"	7"	29#	11,999'	400 sx

Propose to re-enter the previously P&A'd Tew #1-9B5 (Operator ANR) and convert to SWD well. The well will be cleaned out to 9560' and the Uinta perf'd @ 3700'-5800' and Upper Green River (TGR1) perf'd @ 5900'-6400'. The well will be converted to injection to allow disposal of Wasatch/Lower Green River produced water from the Altamont/Bluebell Field. The EPA has granted approval for injection on June 3, 1994 (Permit #UT2722-03788).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Marc D. Ernest /mb Title: Marc D. Ernest Production Superintendent Date: 6/14/94

(This space for Federal or State office use)

API NO. _____ Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

(3/89)

*See Instructions On Reverse Side

Permitco

June 20, 1994

Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Attn: Frank Matthews

Re: ANR Production Company
TEW #1-9B5
Duchesne County, Utah
API #43-013-30121

Dear Frank,

As per our telephone conversation of this morning, enclosed please find three copies of the A.P.D. on the subject well which were previously submitted on June 14, 1994.

Also enclosed, please find three copies of the re-entry procedure, wellbore diagrams and BOP Diagram which you requested.

As we discussed, ANR is anxious to begin this well as soon as possible, therefore, your early approval of this application would be greatly appreciated. If you should need additional information, please call Mr. Mark Ernest at 303/573-4454 or you can reach me at the number shown below.

Sincerely,

PERMITCO INC.

Lisa L. Smith
Consultant for:
ANR PRODUCTION COMPANY

Enc.

cc: ANR Production Company
Mark Ernest

Permitco Incorporated
A Petroleum Permitting Company

13585 Jackson Drive Denver, Colorado 80241 (303) 452-8888

EXHIBIT "M"

SWD WELL CONVERSION

TEW #1-9B5

ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

JULY 23, 1993

WELL DATA

Location:	2334' FNL & 1201' FEL (SE/NE) Section 9, T2S-R5W
API No.:	43-013-30121
WI:	75.0% ANR
Elevation:	7047' GL, 7073' KB
TD:	15,337'
Spud Date:	4/15/72
Completion Date:	10/7/72
P&A Date:	1/18/90
Casing:	13⅜" 68# K-55 ST&C @ 351', cmt'd w/550 sxs (top w/150 sx).
	9⅝" 40# K-55/N-80 S/LT&C @ 5841', cmt'd w/700 sxs (top out w/300 sx, 2nd top out w/300 sx, circ cmt). Note: Squeezed hole in 9⅝" csg @ 1565' due to csg wear from hole deviation w/1200 sx (4 stages). Tested squeeze to 1000 psi, held.
	7" 29# S-95/P-110 LT&C @ 11,999', cmt'd w/400 sx (TOC @ 9961' - CBL). (Note: Squeezed 7" csg leak @ 6004-35' w/300 sx Hi-Fill & 200 sx neat - 7" x 9⅝" circ. Tested to 2000#, pumped in @ 2.7 BPM, 1800#. Re-squeezed w/200 sx. Tested to 2000#, pumped in @ 1.5 BPM, 1850#. Re-squeezed w/150 sx to 3000#.
	5" 18# N-80/SOO-95 SFJP Liner @ 11,716'-15,270', cmt'd w/701 sx (TOC @ liner top).

CASING DATA:

Description	Interval	ID	Drift	Capacity (B/F)	Burst (psi)	Collapse (psi)
7" 29# P-110 LT&C	0-2461'	6.184"	6.059"	.0371	11220	8510
7" 29# S-95 LT&C	2461-11999'	6.184"	6.059"	.0371	9690	9200
5" 18# N-80 SFJP	11716-13878'	4.276"	4.151"	.0177	10140	10490
5" 18# SOO-95 SFJP	13878-15270'	4.276"	4.151"	.0177	12040	12010

Present Status: Well P&A'd 1/18/90.

RECOMMENDED PROCEDURE

1. MIRU workover rig. (Note: Give State of Utah 24-hour notice prior to moving in.)

2. Dig out cellar. Weld on 7" 26-29# S-95 landing joint & horse collar to 9⅝" csg. Install 7" 5000# csg head flange. NU 6" 5000# WP BOP's (7-1/16" bore).

3) RIH w/6" drag bit. Drill out surface plug @ surface to 200'. Pressure test 7" csg above 5500' to 2000#. Drill out cmt plug @ 5500-5940' (440'). RIH & CO 7" csg to PBTD @ 9560'. Pressure test 7" csg to 2000#. If 7" csg leaks, consider Casing Inspection Log and squeeze as needed. POH w/bit.

4) Run a GR/CBL log from 9560' to surface w/2000# to determine cmt coverage.

5) From the CBL log, perf 7" csg & set a cmt retainer to isolate the proposed Upper Green River perfs @ ±5900-6400'. Squeeze w/necessary cement as required.

6) Perf & set a cmt retainer to isolate the proposed Uinta perfs @ ±3700-5800'. Squeeze with necessary cement as required. WOC.

7) PU 6" mill & drill out squeezes. Pressure test each to 2000# after drillout. Circulate & condition hole. POH.

8) Run a GR/CBL log across proposed zones of interest w/2000#. Re-squeeze as necessary.

9) Run a SDT/CNL/GR Digital Sonic log from 8000' to surface to determine proposed injection zones in well. (Note: No open hole logs were run above 5841' due to hole problems.)

10) RU wireline w/lubricator. Perforate the proposed Uinta selectively @ ±3700-5800' and the Upper Green River (TGR1) @ ±5900-6400' @ 4 SPF w/4" csg gun. Correlate to the SDT Sonic log.

11) RIH w/Mtn States retrievable pkr & bridge plug on 2⅞" tbg. Isolate perforated intervals @ 3700-5800' and 5900-6400' and swab test separately for analysis of formation water as required by the State of Utah and BLM.

12) Set pkr above all zones @ ±3500'. Acidize Uinta & Upper Green River zones w/16,000 gal 15% HCl + rock salt & BAF (diverter) in 4 stages.

    Note: A) All acid to contain inhibitor, friction reducer, iron sequestering agent and surfactant.
    B) Pump at max possible rate (12-15 BPM), not to exceed 5000 psi.
    C) Hold 2000 psi on csg during job.

13) POH w/pkr & RBP.

14) PU 3½" "F" nipple (PC), 4' - 3½" pup jt (PC), Mtn States Lok-set pkr (PC) w/on-off tool and 3½" 9.3# J-55 8rd tbg (internal coated w/Duoline-20 fiberglass & Threadmaster MMS couplings, Burst 6980 psi, Collapse 7400 psi, Tension 142,000#, max temp 300°F). Pressure test tbg to 5000 psi. Circ treated, non-corrosive production water for pkr fluid. Set pkr @ ±200' above uppermost perf w/18-20,000# tension. Test annulus to 2000 psi.

15) Land tbg. ND BOP, NU injection WH. RDMO rig.

16) Establish step-rate injectivity test into the Uinta & Upper Green River injection intervals to determine maximum allowable injection pressure.

17) Hook up injection pump & lines. Install SWD battery.

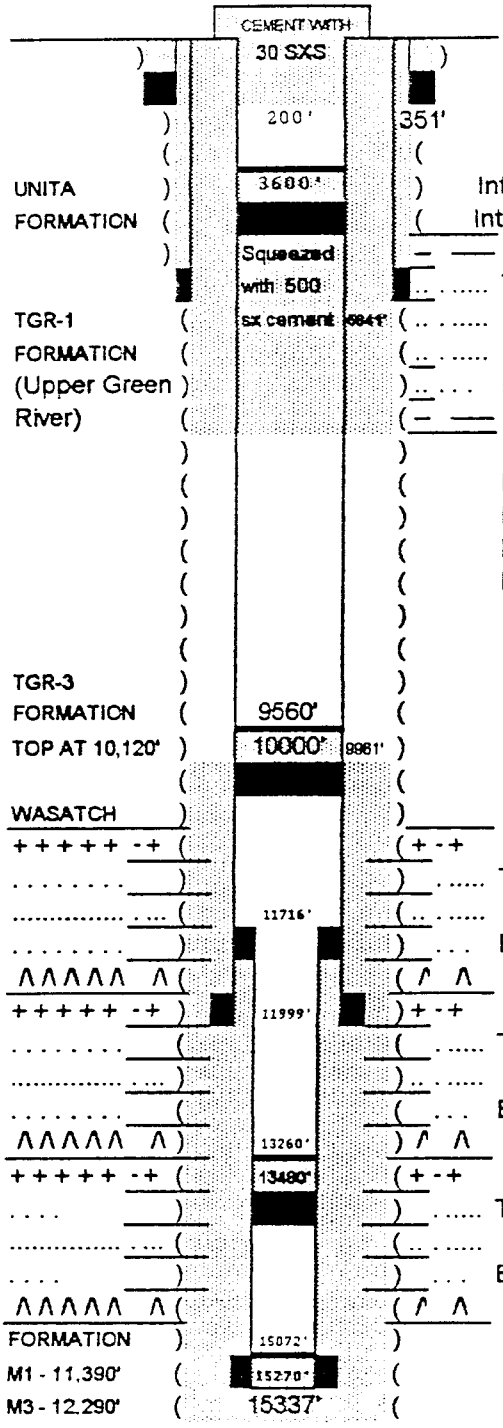
18) Obtain SWD permit.

19) Place well on saltwater injection.

EXHIBIT "Q2"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER PLUGGING AND ABANDOMENT
(NOT TO SCALE)

Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'



Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'
Retainer: 3600' with 10 sx cement on top

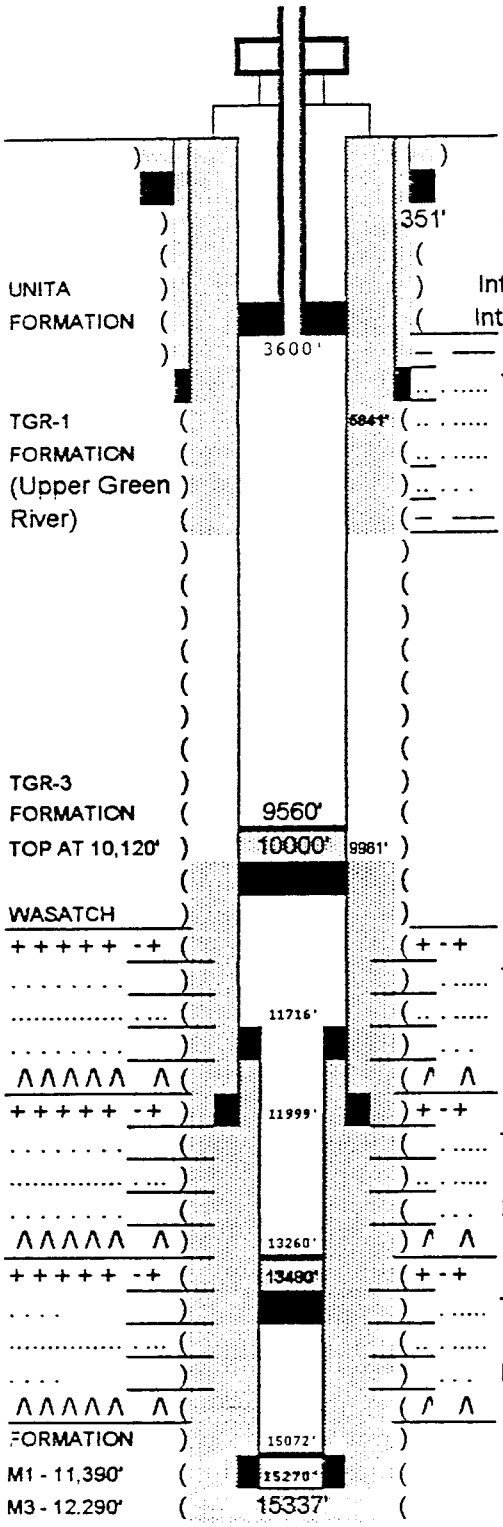
NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'
Top of perforations: 11757'
Bottom of perforations: 13245'
Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'
Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

EXHIBIT "M4"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER SETTING IT UP TO INJECT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE. UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

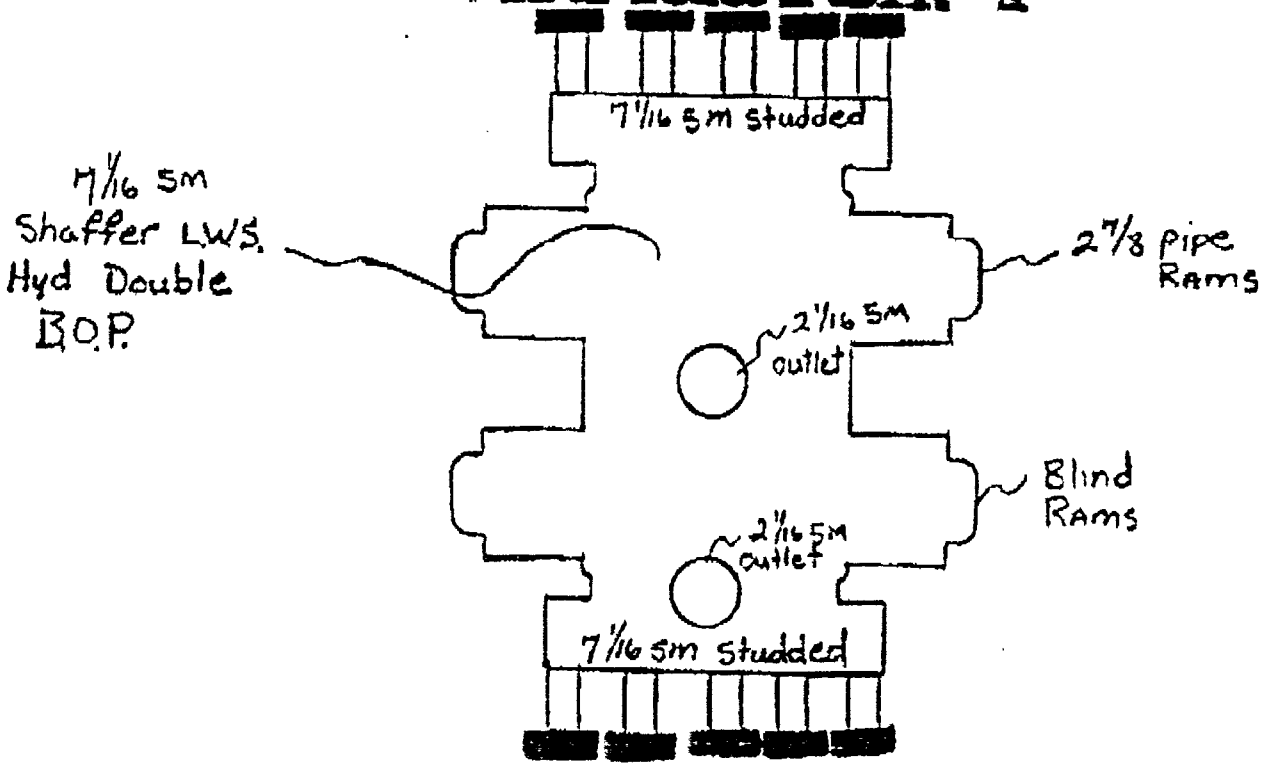
Top of perforations: 11757'

Bottom of perforations: 13245'

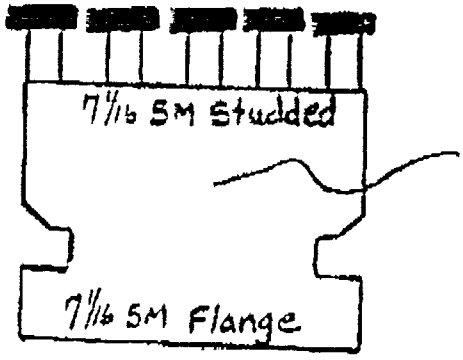
Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

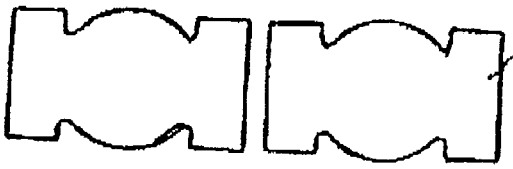
Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

Oil Field Rental



Optional Equipment





2 1/16 5m Camron Type F manuel gate Valves

to come off outlet

EXHIBIT "V"

OF UTAH
ION OF OIL, GAS AND MINING

ICATION FOR INJECTION WELL - UIC FORM 1

ATOR COASTAL OIL & GAS CORPORATION
RESS P.O. BOX 749
DENVER, CO 80201

l name and number: TEW #1-9B5

ld or Unit name: ALTAMONT Lease no. _____

l location: QQ SENE section 9 township 2S range 5W county DUCHESNE

this application for expansion of an existing project? . . Yes [] No XX

l the proposed well be used for: Enhanced Recovery? . . Yes [] No XX
Disposal? . . . . . Yes XX No []
Storage? . . . . . Yes [] No XX

this application for a new well to be drilled? . . . . . Yes [] No XX

this application is for an existing well,
has a casing test been performed on the well? . . . . . Yes [] No XX
Date of test: _____
API number: 43-013-30121

pposed injection interval: from 3700' to 6400'

pposed maximum injection: rate 15,000 BPD pressure 1100 psig

pposed injection zone contains [] oil, [] gas, and/or [] fresh water within ¼
le of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

st of Attachments: EPA PERMIT

certify that this report is true and complete to the best of my knowledge.

me R.L. BARTLEY Signature _____
tle VICE PRESIDENT Date 10/22/93
one No. (303)572-1121

tate use only)
plication approved by _____ Title _____
proval Date _____

mments:

FORM 3

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: Patented

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name:

8. Farm or Lease Name: Tew

9. Well No.: #1-9B5

10. Field and Pool, or Wildcat: Altamont

11. QQ, Sec., T., R., M., or Blk. and Survey or Area: Section 9-T2S-R5W

12. County or Parrish: Duchesne

13. State: UT

1a. Type of Work: DRILL ☐ DEEPEN ☒ Re-entry PLUG BACK ☐

b. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD Single Zone ☐ Multiple Zone ☒

2. Name of Operator: ANR Production Company

3. Address of Operator: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 2334' FNL & 1201' FEL (SE/NE)
At proposed prod. zone: Same

14. Distance in miles and direction from nearest town or post office*: Well located 11 miles WSW of Altamont, UT.

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1201' FEL

16. No. of acres in lease: 480

17. No. of acres assigned to this well: 480

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: N/A

19. Proposed depth: 9560'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 7047' GL, 7073' KB

22. Approx. date work will start*:

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13-3/8"	68#	351'	700 sx
12¼"	9-5/8"	40#	5841'	1300 sx
8-3/4"	7"	29#	11,999'	400 sx

Propose to re-enter the previously P&A'd Tew #1-9B5 (Operator ANR) and convert to SWD well. The well will be cleaned out to 9560' and the Uinta perf'd @ 3700'-5800' and Upper Green River (TGR1) perf'd @ 5900'-6400'. The well will be converted to injection to allow disposal of Wasatch/Lower Green River produced water from the Altamont/Bluebell Field. ~~The EPA has granted approval for injection on June 3, 1994.~~ (Permit #UT2722-03788).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Marc D. Ernest /mb Title: Marc D. Ernest Production Superintendent Date: 6/14/94

(This space for Federal or State office use)

API NO. _____ Approval Date _____

Approved by _____ Title _____ Date 6/23/94

Conditions of approval, if any:

R649-3-3

(3/89)

*See Instructions On Reverse Side

EXHIBIT "M"

SWD WELL CONVERSION

TEW #1-9B5

ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

JULY 23, 1993

WELL DATA

Location:	2334' FNL & 1201' FEL (SE/NE) Section 9, T2S-R5W
API No.:	43-013-30121
WI:	75.0% ANR
Elevation:	7047' GL, 7073' KB
TD:	15,337'
Spud Date:	4/15/72
Completion Date:	10/7/72
P&A Date:	1/18/90
Casing:	13⅜" 68# K-55 ST&C @ 351', cmt'd w/550 sxs (top w/150 sx).
	9⅝" 40# K-55/N-80 S/LT&C @ 5841', cmt'd w/700 sxs (top out w/300 sx, 2nd top out w/300 sx, circ cmt). Note: Squeezed hole in 9⅝" csg @ 1565' due to csg wear from hole deviation w/1200 sx (4 stages). Tested squeeze to 1000 psi, held.
	7" 29# S-95/P-110 LT&C @ 11,999', cmt'd w/400 sx (TOC @ 9961' - CBL). (Note: Squeezed 7" csg leak @ 6004-35' w/300 sx Hi-Fill & 200 sx neat - 7" x 9⅝" circ. Tested to 2000#, pumped in @ 2.7 BPM, 1800#. Re-squeezed w/200 sx. Tested to 2000#, pumped in @ 1.5 BPM, 1850#. Re-squeezed w/150 sx to 3000#.
	5" 18# N-80/SOO-95 SFJP Liner @ 11,716'-15,270', cmt'd w/701 sx (TOC @ liner top).

CASING DATA:

Description	Interval	ID	Drift	Capacity (B/F)	Burst (psi)	Collapse (psi)
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5" 18# N-80 SFJP	11716-13878'	4.276"	4.151"	.0177	10140	10490
5" 18# SOO-95 SFJP	13878-15270'	4.276"	4.151"	.0177	12040	12010

Present Status: Well P&A'd 1/18/90.

RECOMMENDED PROCEDURE

1. MIRU workover rig. (Note: Give State of Utah 24-hour notice prior to moving in.)

2. Dig out cellar. Weld on 7" 26-29# S-95 landing joint & horse collar to 9⅝" csg. Install 7" 5000# csg head flange. NU 6" 5000# WP BOP's (7-1/16" bore).

3) RIH w/6" drag bit. Drill out surface plug @ surface to 200'. Pressure test 7" csg above 5500' to 2000#. Drill out cmt plug @ 5500-5940' (440'). RIH & CO 7" csg to PBTD @ 9560'. Pressure test 7" csg to 2000#. If 7" csg leaks, consider Casing Inspection Log and squeeze as needed. POH w/bit.

4) Run a GR/CBL log from 9560' to surface w/2000# to determine cmt coverage.

5) From the CBL log, perf 7" csg & set a cmt retainer to isolate the proposed Upper Green River perfs @ ±5900-6400'. Squeeze w/necessary cement as required.

6) Perf & set a cmt retainer to isolate the proposed Uinta perfs @ ±3700-5800'. Squeeze with necessary cement as required. WOC.

7) PU 6" mill & drill out squeezes. Pressure test each to 2000# after drillout. Circulate & condition hole. POH.

8) Run a GR/CBL log across proposed zones of interest w/2000#. Re-squeeze as necessary.

9) Run a SDT/CNL/GR Digital Sonic log from 8000' to surface to determine proposed injection zones in well. (Note: No open hole logs were run above 5841' due to hole problems.)

10) RU wireline w/lubricator. Perforate the proposed Uinta selectively @ ±3700-5800' and the Upper Green River (TGR1) @ ±5900-6400' @ 4 SPF w/4" csg gun. Correlate to the SDT Sonic log.

11) RIH w/Mtn States retrievable pkr & bridge plug on 2⅞" tbg. Isolate perforated intervals @ 3700-5800' and 5900-6400' and swab test separately for analysis of formation water as required by the State of Utah and BLM.

12) Set pkr above all zones @ ±3500'. Acidize Uinta & Upper Green River zones w/16,000 gal 15% HCl + rock salt & BAF (diverter) in 4 stages.

    Note: A) All acid to contain inhibitor, friction reducer, iron sequestering agent and surfactant.
    B) Pump at max possible rate (12-15 BPM), not to exceed 5000 psi.
    C) Hold 2000 psi on csg during job.

13) POH w/pkr & RBP.

14) PU 3½" "F" nipple (PC), 4' - 3½" pup jt (PC), Mtn States Lok-set pkr (PC) w/on-off tool and 3½" 9.3# J-55 8rd tbg (internal coated w/Duoline-20 fiberglass & Threadmaster MMS couplings, Burst 6980 psi, Collapse 7400 psi, Tension 142,000#, max temp 300°F). Pressure test tbg to 5000 psi. Circ treated, non-corrosive production water for pkr fluid. Set pkr @ ±200' above uppermost perf w/18-20,000# tension. Test annulus to 2000 psi.

15) Land tbg. ND BOP, NU injection WH. RDMO rig.

16) Establish step-rate injectivity test into the Uinta & Upper Green River injection intervals to determine maximum allowable injection pressure.

17) Hook up injection pump & lines. Install SWD battery.

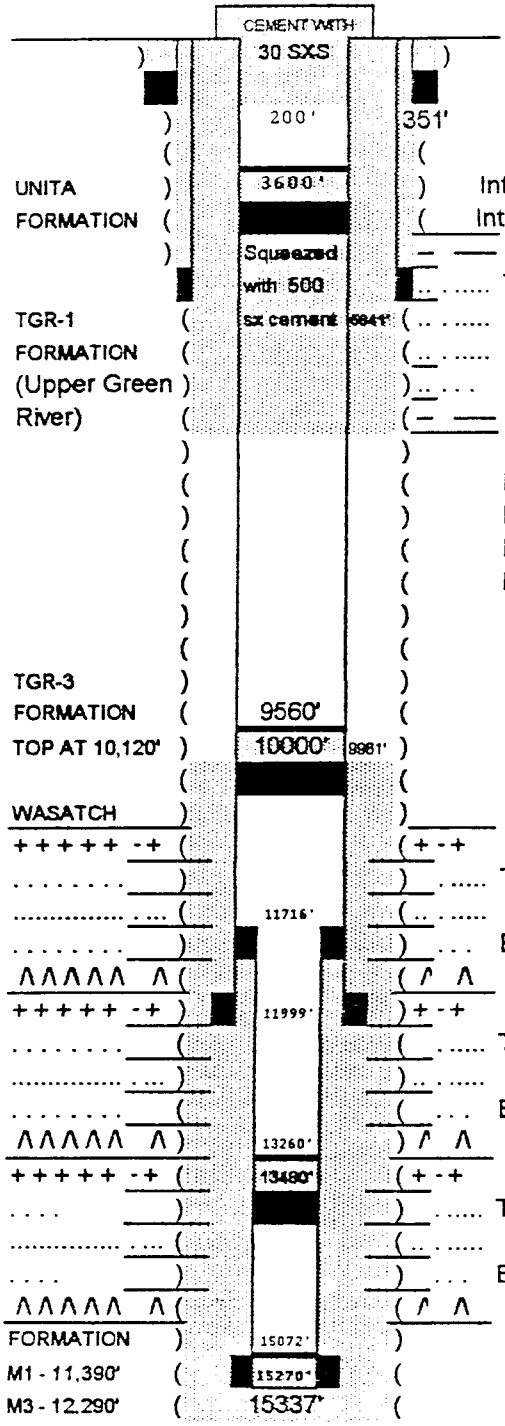
18) Obtain SWD permit.

19) Place well on saltwater injection.

EXHIBIT "Q2"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER PLUGGING AND ABANDOMENT
(NOT TO SCALE)

Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9. T2S - R5W
County: DUCHESNE. UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'



Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'
Retainer: 3600' with 10 sx cement on top

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

Top of perforations: 11757'

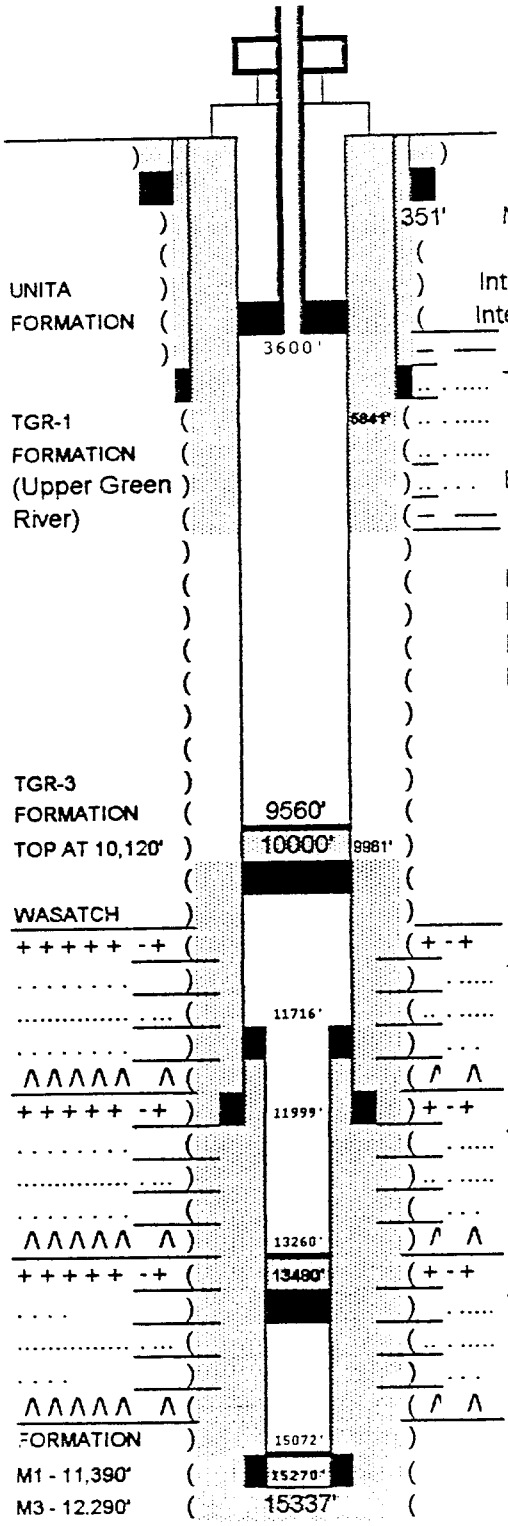
Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

EXHIBIT "M4"

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER SETTING IT UP TO INJECT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
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Top of perforations: 11757'

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Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/22/94

API NO. ASSIGNED: 43-013-30121

WELL NAME: TEW 1-9B5
OPERATOR: ANR PRODUCTION COMPANY (N0675)

PROPOSED LOCATION:
SENE 09 - T02S - R05W
SURFACE: 2334-FNL-1201-FEL
BOTTOM: 2334-FNL-1201-FEL
DUCHESNE COUNTY
ALTAMONT FIELD (055)

LEASE TYPE: FEE
LEASE NUMBER: TEW

PROPOSED PRODUCING FORMATION: UNTA

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

Y Plat SEE ORIGINAL FILING
Y Bond: Federal[] State[] Fee[✓]
(Number STATE WIDE $80,000)
N Potash (Y/N)
N Oil shale (Y/N)
N Water permit
(Number _____)
N RDCC Review (Y/N)
(Date: _____)

LOCATION AND SITING:

___ R649-2-3. Unit: _____

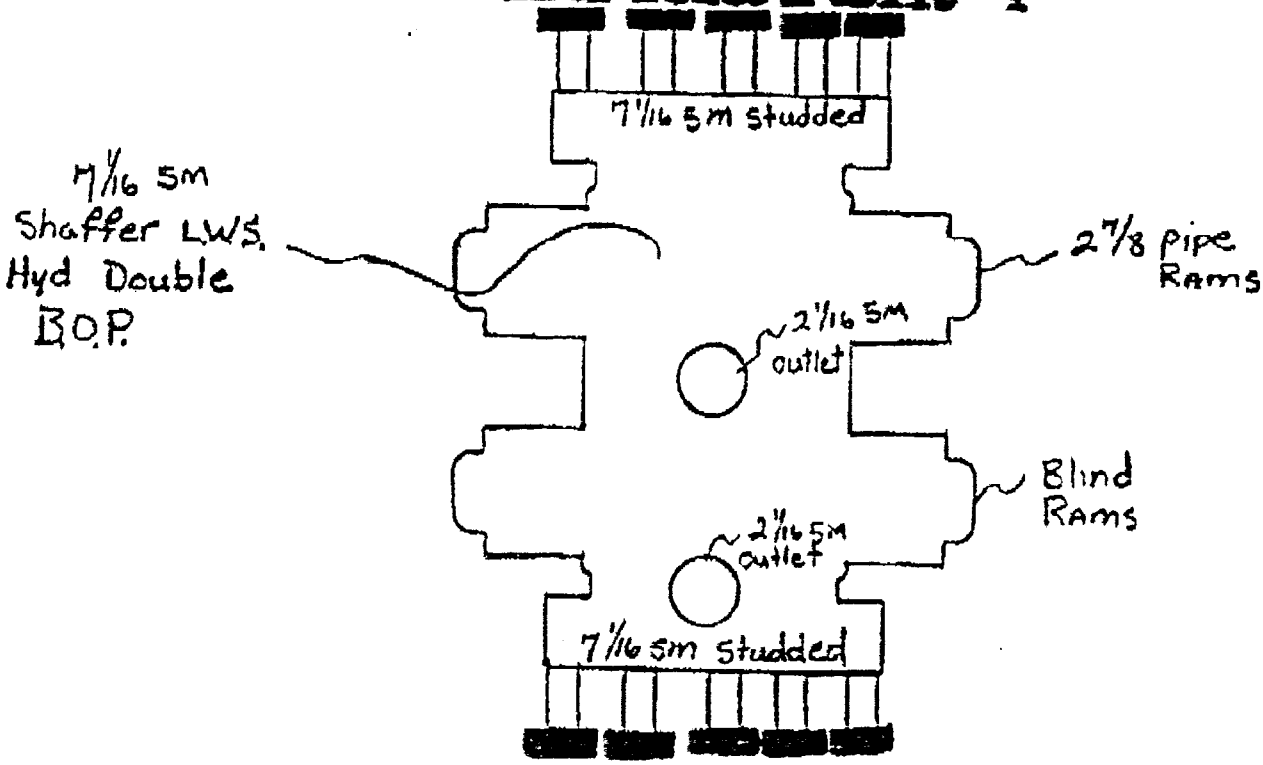
___ R649-2-3. General.

✓ R649-3-3. Exception.
✓ R649-3-4.
___ Drilling Unit.
Board Cause no: _____
Date: _____

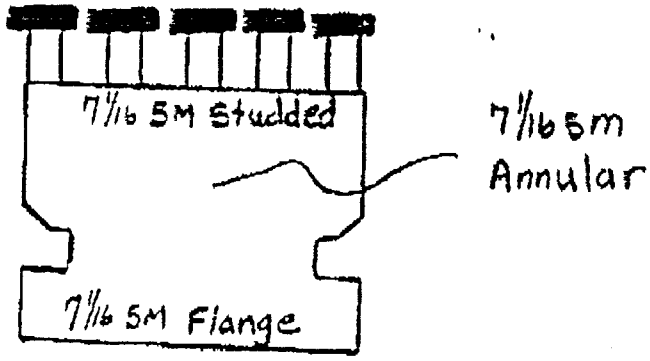
COMMENTS: _____

STIPULATIONS: _____

Oil Field Rental



Optional Equipment



2 1/16 5M Camron Type F manuel gate valves

to come off outlet

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 23, 1994

ANR Production Company
P.O. Box 749
Denver, Colorado 80201-0749

Re: Tew #1-9B5 Well, 2334' FNL, 1201' FEL, SE NE, Sec. 9, T. 2 S., R. 5 W., Duchesne County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-3, Exception to Location and Siting of Wells and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to reenter and drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.

2. Notification to the Division within 24 hours after drilling operations commence.

3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.

4. Submittal of the Report of Water Encountered During Drilling, Form 7.

5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-013-30121.

Sincerely,

R.J. Firth
Associate Director

ldc
Enclosures
cc: Duchesne County Assessor
Bureau of Land Management, Vernal District Office
WOI1

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: ANR PRODUCTION

WELL NAME: TEW 1-9B5 RE-ENTRY

API NO. 43-013-30121

Section 9 Township 2S Range 5W County DUCHESNE

Drilling Contractor WESTERN WELL SERVICE

Rig # 29

SPUDDED: Date 7/20/94

Time NOON

How ROTARY

Drilling will commence

Reported by JIM FOREMAN

Telephone # 1-828-7229

Date 7/21/94 SIGNED DLI

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: ANR PRODUCTION CO,. INC COMPANY REP: JIM FOREMAN

WELL NAME: TEW 1-9B5 API NO: 43-013-30121

SECTION: 9 TWP: 02S RANGE: 05W

CONTRACTOR: WESTERN OIL WELL SERVICE RIG NUMBER: #29

INSPECTOR: INGRAM TIME: 3:30 P.M. AM/PM DATE: 7/20/94

OPERATIONS AT THE TIME OF INSPECTION: DRILL OUT SURFACE PLUG ON P&A.

WELL SIGN: N TYPE OF WELL: OIL STATUS PRIOR TO WORKOVER: P&A

H2S: N ENVIRONMENTAL: Y PIT: Y BOPE: N

DISPOSITION OF FLUIDS USED: TRUCK

PERFORATED: STIMULATED: SAND CONTROL:

WATER SHUT OFF: WELLBORE CLEANOUT: WELL DEEPENED:

CASING OR LINER REPAIR: ENHANCED RECOVERY: THIEF ZONE:

CHANGE OF LIFT SYSTEM: TUBING CHANGE: OTHER CEMENT SQUEEZE:

REMARKS:

RE-ENTRY OF P&A WITH INTENTIONS OF USING FOR DISPOSAL WELL.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - FORM 6

OPERATOR ANR Production Company

OPERATOR ACCT. NO. N0675

ADDRESS P.O. Box 749
Denver, CO 80201-0749

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
E	99999	1675	43-013-30121	Tew #1-9B5	SENE	9	2S	5W	Duchesne	7/19/94	7/19/91

WELL 1 COMMENTS: Re-enter the previously P&A'd Tew #1-9B5 well and converting to SWD well.
Entity added 7-26-94 jc (same entity as API 43-013-30121)

RECEIVED
JUL 22 1994
DIV. OF OIL, GAS & MINING

WELL 2 COMMENTS:

WELL 3 COMMENTS:

WELL 4 COMMENTS:

WELL 5 COMMENTS:

ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3.39)

Signature

Sr. Drlg. Secretary — Title

7/20/94 — Date

Phone No. (303) 573-4433

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: ANR PRODUCTION CO., INC COMPANY REP: JIM FOREMAN

WELL NAME: UTE TRIBAL 1-6B3 1-9BS API NO: 43-013-30121 ok

SECTION: 09 TWP: 02S RANGE: 05W ok

CONTRACTOR: WESTERN OIL WELL SERVICE RIG NUMBER: #2

INSPECTOR: DENNIS INGRAM TIME: 9:25 A.M. AM/PM DATE: 8/2/94

OPERATIONS AT THE TIME OF INSPECTION: PUMPING CEMENT @ 6330.

==========

WELL SIGN: N TYPE OF WELL: INJ STATUS PRIOR TO WORKOVER: P&A

H2S: N ENVIRONMENTAL: Y PIT: Y BOPE: Y

DISPOSITION OF FLUIDS USED: FLAT TANK, FRACK MASTER AND TRUCK.

PERFORATED: Y STIMULATED: N SAND CONTROL: N

WATER SHUT OFF: WELLBORE CLEANOUT: WELL DEEPENED:

CASING OR LINER REPAIR: Y ENHANCED RECOVERY: THIEF ZONE:

CHANGE OF LIFT SYSTEM: TUBING CHANGE: OTHER CEMENT SQUEEZE: Y

==========

REMARKS:

RAN BOND LOG AND DIDN'T HAVE CEMENT. SET RETAINER AT 6330 FEET AND WILL TRY TO OBTAIN CEMENT TOP OF 6060 FEET. PERFS AT 6060' AND 6400'. OPERATOR WAS PUMPING CEMENT WITH HALLIBURTON PUMP TRUCK DURING VISIT, AND HAD 2000 PSI FOR INJECTION PRESSURE.

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0% ANR AFE: 64801
TD: 15,337'
7" @ 11,999'
PROPOSED INJECTION INTERVALS: 3700'-5800' (UINTA)
5900'-6400' (U. GREEN RIVER)

CWC(M$): 192.0

7/19/94	RU rig. Too windy to RU rig. CC: $2,260
7/20/94	DO cmt. RU. Welder cut off plate and dressed 7" csg stub. Install 5000 x 7-1/16" tbg spool. PT to 2500#. Install BOP's. MU 3⅛" DC's w/6" drag bit. DO cmt from sfc to 60'. CC: $7,675
7/21/94	Mill on cmt @ 190'. Drill cmt from 60'-160'. Stand pipe plugged up. Mill from 160'-190'. Keeps plugging up - acts like bit partially plugged. POOH w/tbg, DC's, bit. Bit plugged w/cmt. RIH w/6" drag bit, 6 - 3⅛" DC's. CC: $10,559
7/22/94	Mill on cmt @ 5568'. Drill cmt from 190'-265', fell thru. PU 165 jts 2⅞", tag @ 5568'. CC: $13,669
7/23-24/95	SD for weekend.
7/25/94	Drill on cmt. PT csg to 2200#/15 min - OK. RU swivel. Tag @ 5568'. Mill cmt to 5641'. Drive line broke. Circ clean. CC: $16,121
7/26/94	Drill on cmt. PU swivel. DO cmt from 5641' to 5933' (292', avg 29'/hr). Circ btms up. PU. CC: $19,596
7/27/94	Prep to run Bond Log. Drill cmt @ 5933'-6018', fell thru. RIH to 6058'. Circ btms up. PT csg to 2200#/15 min - good. RD swivel. PU 2⅞" tbg. RIH, tag @ 9683'. Circ well. PT to 2200#, hold. POOH w/2⅞" tbg, 8rd collars, drag bit. CC: $22,979
7/28/94	RIH w/pkr. RU OWP to log well. Run GR/CBL from 9635' to sfc w/2000# - poor bond. Prep to perf. RIH w/4" guns. Shoot 4 sqz holes @ 6400' & 6060'. RD OWP. RIH w/Mtn States 7" HD pkr, 140 jts 2⅞" tbg. CC: $33,376
7/29/94	RIH w/bit. Continue to RIH w/2⅞" tbg, set pkr @ 6108'. Pump down tbg, 3 BPM @ 700# - not getting full returns. Rls pkr, POOH w/2⅞" tbg. RIH w/Mtn States 7" SV retainer, 2⅞" tbg, set retainer @ 6330'. RU Halliburton to cmt perfs @ 6400', w/returns thru perfs @ 6060'. Pump 10 BFW, 10 bbls $CaCl_2$, 5 BFW, 10 bbls Flocheck, 5 BFW, 190 sx 50/50 poz w/additives, 1.53 yield, 13.5 ppg, 10 BFW, 26 bbls prod wtr (very little returns). Pull out of retainer. POOH w/rest of 2⅞", stinger, WOC. CC: $49,112
7/30-31/94	SD for weekend.

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/1/94 RIH w/pkr, prep to sqz perfs @ 6060'.
Pump 20 bbls prod wtr down csg, pressure tbg to 800#, broke back to 500# @ 3 BPM. RIH w/6" drag bit, 8 - 3⅛" DC's, 2⅞" tbg. Tag TOC @ 6325'. POOH w/2⅞" tbg, DC's, drag bit. RU OWP. Run Temp Svy from 6325' to 6060' - temp changed @ 6060'. See abnormal heat change from 6060' to cmt top (indication of cmt throughout interval). POOH. RD OWP. RIH w/7" Mtn States HD pkr, SN, 110 jts 2⅞". CC: $54,015

8/2/94 POOH w/tbg.
Continue to RIH w/2⅞". Set 7" pkr @ 5815'. RU Halliburton to cmt sqz hole @ 6060'. PT to 2000#, hold. Est inj rate down tbg, 4 BPM @ 1100#. Pump 10 BFW, 20 bbls $CaCl_2$, 5 BFW, 20 bbls Flocheck, 5 BFW, 300 sx Thixotropic cmt w/additives, 1.77 yield, 13.5#, 94.5 bbls slurry, 10 BFW, 30 bbls prod wtr. Sqz to 2000#, hold. Rls pkr, rev w/50 bbls prod wtr. Pull to 5190', set pkr. Pressure to 1000#. RD Halliburton. CC: $67,014

8/3/94 WOC.
Rls pkr. POOH w/2⅞" tbg, 7" pkr. Fill 7" csg, PT to 2000#. RU OWP. Perf 4 holes @ 5670' with 1-11/16" circ guns. Try to circ. Pressure to 2000#, hold. Pump down 9⅝", took 20 bbls to fill w/900#, injecting 2 BPM with no circ. Perf 4 holes @ 5060' with 1-11/16" circ guns. Circ down 7" out 9⅝", 4 BPM @ 700#. RIH w/Mtn States 7" SV retainer, set @ 5000'. RD OWP. RIH w/retainer stinger, 2⅞" tbg. Sting into retainer. RU Halliburton, pump 10 BFW, 220 sx HiFill (11.0 ppg, 3.82 CF/sx, 149.6 bbls slurry, 50 sx Premium Plus w/2% $CaCl_2$ (15.6 ppg, 1.18 CF/sx), 10.5 bbls slurry, 10 BFW, 27 bbls prod wtr. Did not circ out any cmt, had good returns thru job. Sting out of retainer. POOH w/2⅞" tbg. CC: $81,638

8/4/94 Prep to check cmt top.
WOC. CC: $81,638

8/5/94 DO cmt.
RU OWP to log - run CBL from 4939' to sfc, TOC looks like 2930'. Perf 4 holes @ 2925' with 1-11/16" circ guns. Attempt to circ down 7". Pressure to 2000# - no circ. Perf 4 holes @ 2200'. Attempt to circ down 7" csg. Pressure to 2000# - no circ. Decide to CO hole while cmt is curing. RD OWP. RIH w/6" rock bit, DC, 2⅞" tbg, tag @ 4939'. Drill cmt to 4960'. Circ tbg clean. CC: $91,101

8/6-7/94 SD for weekend.

8/8/94 Continue drlg retainer.
Continue to drill cmt from 4960' to top of CICR @ 5000'. Made total of 11" to 5001'. Circ btms up. CC: $94,398

8/9/94 Drlg cmt @ 5960'.
Finish drlg up CICR @ 5001' and cmt. Fell out of cmt @ 5068'. Circ clean. PT csg & perf @ 5060' to 2025#, 15 min 1800#. RIH, tag TOC @ 5929'. Drill to 5960' - made 31', cmt soft. Circ btms up. CC: $97,610

8/10/94 Drill CICR @ 6330'.
Continue to drill cmt. Breaks thru @ 6092'. Circ btms up. PT 2000# - lost pressure, 15 min - 1800#. RIH, tag cmt @ 6322'. Drill cmt to top or retainer @ 6330'. CC: $100,881

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION) PAGE 3
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/11/94 POH w/bit.
Tag retainer @ 6330'. Drill to 6331'. Circ btms up. CC: $104,247

8/12/94 Mill on retainer.
POOH w/worn bit. RIH w/6⅛" bladed mill, XO's, 8 - 3⅛" DC's, 188 jts 2⅞" tbg, tag @ 6331'. RU swivel. Break circ. Drld 2". Pull mill off btm, circ btms up. CC: $107,782

8/13-14/94 SD for weekend.

8/15/94 Drill on cmt & retainer.
RIH, tag @ 6331'. Est circ. Mill plugging up. RD swivel. POOH w/2⅞" tbg, DC's, 6" mill. RIH w/6" rock bit, collars, 2⅞" tbg. PU swivel, est circ. Drill on retainer to 6333' (acts like btm of retainer spinning). Circ btms up. CC: $111,942

8/16/94 POOH w/2⅞" tbg.
Dill on retainer & cmt from 6333' to 6415', fell thru. RIH to 6435'. Circ btms up. PT to 2025# ISIP, 5 min - 1950#, 10 min 1925#, 15 min 1900#. RIH to 7050', no tag. Remove strip head. POOH w/2⅞" tbg, EOT @ 4800'. CC: $115,314

8/17/94 WOC, rls pkr.
Finish POOH w/2⅞", DC's, 6" bit. RU OWP, log GR/CBL from 0-6500' w/2000# on well. TOC @ 400'. Perf 4 shots @ 395'. POOH, RD OWP. Est circ, good. RIH w/Mtn States 7" 32-A pkr, 6 jts 2⅞", set @ 214' w/20,000# tension. RU Halliburton to cmt sqz holes @ 395'. Est circ down 2⅞" tbg, 3.5 BPM @ 400#. Pump 10 BFW, 70 sx Type 5 neat cmt, 1.18 yield (14.7 bbls), 7.5 BFW. Circ cmt to sfc up 9⅝" csg. RD Halliburton. CC: $124,442

8/18/94 Prep to log well.
Rls pkr. POOH w/6 jts 2⅞", 7" pkr. RIH w/6" drag bit, 8 jts DC's, 2 jts 2⅞", tag @ 355'. RU drlg rubber, power swivel. Drill cmt to 400', fell thru. RIH to 465', circ btms up. PT csg to 2025# ISIP, 5 min - 1975#, 10 min 1950#, 15 min 1925#. RD swivel, drlg rubber. POOH w/tbg, DC's, drag bit. CC:$127,033

8/19/94 Logging well.
RU Schlumberger. Run Schlumberger Digital Sonic & Neutron Log from 8000' to sfc. Run CBL from 600' to sfc. RD WL. CC: $145,187

8/20-21/94 SD for weekend.

8/22/94 Evaluating logs for perf schedule.

8/23/94 RDMO.
Move to the Ute #2-22B6. Evaluating logs for perf schedule. Drop from report until further activity. CC: $145,187

HALLIBURTON

HALLIBURTON ENERGY SERVICES

CHARGE TO: A.N.R. PROD

ADDRESS

CITY, STATE, ZIP CODE

No. 598918 - 1

PAGE 1 OF

FORM 1908 R-13

SERVICE LOCATIONS
1. VERNAL
2.
3.
4.
REFERRAL LOCATION

WELL/PROJECT NO. 1-985 | LEASE TWE | COUNTY/PARISH DUCHESNE | STATE UT | CITY/OFFSHORE LOCATION TALMAGE | DATE 7/29/94 | OWNER

TICKET TYPE: ☑ SERVICE ☐ SALES | NITROGEN JOB? ☐ YES ☑ NO | CONTRACTOR | RIG NAME/NO. | SHIPPED VIA HALCO | DELIVERED TO LOCATION | ORDER NO.

WELL TYPE 01 | WELL CATEGORY 02 | JOB PURPOSE 112 | WELL PERMIT NO. | WELL LOCATION

INVOICE INSTRUCTIONS PROVIDE MEN, EQUIPMENT & MATERIALS TO SQUEEZE PERFS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117					MILEAGE RCM 7061	75	MI			2 75	206
009-019					PUMP CHARGE	1	EA	4330	—	3120 -	3120
158-097					FLOCHEK	42	Gal			5 00	2100
509-406	890, 50812				CALCIUM CHLORIDE	5	SKS			44 55	222

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE X J.D. Foreman Agt

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

I ☐ do ☐ do not require IPC (Instrument Protection). ☐ Not offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK | DEPTH

BEAN SIZE | SPACERS

TYPE OF EQUALIZING SUB. | CASING PRESSURE

TUBING SIZE | TUBING PRESSURE | WELL DEPTH

TREE CONNECTION | TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	5649
FROM CONTINUATION PAGE(S)	3648
	9297
Less 30% DISC	2,789
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	4507

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
Jim Foreman	X J.D. Foreman Agt	Jeff Weber	04180	

HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL 405

TICKET No. 598918

CUSTOMER ANR PRODUCTIONS

WELL TWE 1-9B5

DATE 07-29-94

PAGE OF

FORM 1911 R-9

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
040											
504-058	516.00261				Premium Plus Cement	95	SK			10.39	987.05
506-105	516.00286				Pozmix "A"	6270	lb			.073	457.71
506-121	516.00259				Gel 2% Allowed w/Poz	3	SK			N/C	
509-968	516.00158				Salt 10% BWOW	990	lb			.115	148.5
508-291	516.00337				Gilsonite 12½ #/SK	2375	lb			.40	950.0
507-210	890.50071				Flocele ¼ #/SK	47	lb			1.70	79.9
					SERVICE CHARGE	CUBIC FEET	260			1.35	351.0
500-207					MILEAGE CHARGE	TOTAL WEIGHT 18,916	LOADED MILES 75	TON MILES	709.35	.95	673.8
500-306											

CONTINUATION TOTAL 3618.0

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: WESTERN
HALLIBURTON LOCATION: VERNAL
BILLED ON TICKET NO.: 958918

WELL DATA

FIELD: TAMAG SEC. TWP. RNG. COUNTY: DUCHESNE STATE: UTAH

FORMATION NAME: TYPE:
FORMATION THICKNESS: FROM: TO:
INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD
PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD
COMPLETION DATE: MUD TYPE: MUD WT.
PACKER TYPE: SET AT:
BOTTOM HOLE TEMP.: PRESSURE:
MISC. DATA: TOTAL DEPTH:

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	23	7	0	T.D.	5000
LINER						
TUBING	U	6.5	2.875	0	6330	5000
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7/29/94	DATE 7/29/94	DATE 7/29/94	DATE 7/29/94
TIME 09:30	TIME 11:45	TIME 13:00	TIME 14:20

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO & TYPE	LOCATION
J. WEEKS OPER	40958	VERNAL
D. REYNOLDS RCM	7061	
J. VANDYKE BULK	2528	

MATERIALS

TREAT. FLUID: DENSITY: LB/GAL °API
DISPL. FLUID: DENSITY: LB/GAL °API
PROP. TYPE: SIZE: LB.
PROP. TYPE: SIZE: LB.
ACID TYPE: GAL. %
ACID TYPE: GAL. %
ACID TYPE: GAL. %
SURFACTANT TYPE: GAL. IN
NE AGENT TYPE: GAL. IN
FLUID LOSS ADD. TYPE: GAL.-LB. IN
GELLING AGENT TYPE: GAL.-LB. IN
FRIC. RED. AGENT TYPE: GAL.-LB. IN
BREAKER TYPE: GAL.-LB. IN
BLOCKING AGENT TYPE: GAL.-LB.
PERFPAC BALLS TYPE: QTY.
OTHER
OTHER

DEPARTMENT: CEMENT
DESCRIPTION OF JOB: SQUEEZE W/ FLOCHEK THRU RETAINER

JOB DONE THRU: TUBING ☑ CASING ☐ ANNULUS ☐ TBG. / ANN. ☐

CUSTOMER REPRESENTATIVE: X J.D. Foreman
HALLIBURTON OPERATOR: Jeff Weeks
COPIES REQUESTED:

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK/SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL
1	190	50-50 POZ	V	B	2% GEL 10% SALT 12½# GILSONITE ¼# FLOCELE	1.54	13.5

SUMMARY

PRESSURES IN PSI
CIRCULATING: DISPLACEMENT:
BREAKDOWN: MAXIMUM:
AVERAGE: FRACTURE GRADIENT:
SHUT-IN: INSTANT: 5-MIN: 15-MIN:

HYDRAULIC HORSEPOWER
ORDERED: AVAILABLE: USED:

AVERAGE RATES IN BPM
TREATING: DISPL.: OVERALL:

CEMENT LEFT IN PIPE
FEET: REASON:

VOLUMES
PRESLUSH: BBL.-GAL. TYPE:
LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.
TREATMENT: BBL.-GAL. DISPL.: BBL.-GAL.
CEMENT SLURRY: BBL.-GAL.
TOTAL VOLUME: BBL.-GAL.

REMARKS
SEE JOB LOG

HALLIBURTON

DATE 7/29/94 PAGE NO. 1

JOB LOG FORM 2013 R-4

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO
A.N.R. Prod	1-9B5	TWE	112	598918

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	11:45							ON LOCATION & SET UP
	12:15							SAFETY MTG.
	13:00	0	0			0		START SOURCE WATER (ANNULUS)
	13:01	3	3			1200		PRESSURE & RATE
	13:11	3	30			1200		SHUT DOWN
	13:11	—	0			200		START DOWN TUBING
	13:15	3	12			330		SHUT DOWN
	13:15	3	0			200		START DOWN ANNULUS
	13:22	3	22			1200		SHUT DOWN
	13:30	3	0			400		START FRESH WATER AHEAD
	13:32	3	10			400		END FRESH WATER
	13:32	3	0			400		START $CaCl_2$ 10%
	13:34	3	10			450		END $CaCl_2$ 10%
	13:34	3	0			450		START SPACER WATER
	13:35	3	5			450		END WATER SPACER
	13:35	3	0			450		START FLOCHEK
	13:38	3	10			450		END FLOCHEK
	13:38	3	0			450		START FRESH WATER SPACER
	13:39	3	5			500		END SPACER
	13:39	3	0			500		START CEMENT @ 13.5 #
	13:48	5	27.1			500		END CEMENT
	13:48	5	0			500		START DISPLACEMENT FRESH
	13:50	3	10			580		END FRESH WATER DISP.
	13:50	3	0			580		START SOURCE WATER DISP.
	13:54	3	26.6			700		END DISPLACEMENT
	13:54	—	—			—		SHUT DOWN
								P.O.O.H
								TUBING PULLING DRY
								PULL TBG ALL OUT OF HOLE.
	14:06							END JOB
								RELEASED FROM JOB
								THANK YOU FROM HALCO
								CREW. JEFF, JEFF & DON

HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

ADDRESS: AMR Production

CITY, STATE, ZIP CODE:

No. 599081 -

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. 55685	1-9 B5	TWE	Duchesne	Utah		8-2-94	SAME
2.	TICKET TYPE: ☑ SERVICE ☐ SALES	NITROGEN JOB? ☐ YES ☑ NO	CONTRACTOR	RIG NAME/NO. Western #29	SHIPPED VIA TRK	DELIVERED TO LOCATION	ORDER NO
3.	WELL TYPE 01	WELL CATEGORY 02	JOB PURPOSE 075	WELL PERMIT NO.		WELL LOCATION N Duchesne	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS: Provide Men Equipment & Materials To Squeeze Perf As Instructed						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117					MILEAGE Pump Truck	1	EA	75	mi	2 75	206
009-019					Pump Charge	6	HR	6060	FT		3120
					Discount						(4,301)

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X Greg Todd

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

I ☐ do ☐ do not require IPC (Instrument Protection). ☐ Not offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK | DEPTH

BEAN SIZE | SPACERS

TYPE OF EQUALIZING SUB. | CASING PRESSURE

TUBING SIZE | TUBING PRESSURE | WELL DEPTH

TREE CONNECTION | TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	3326
FROM CONTINUATION PAGE(S)	11,013
30% TOTAL	14,339
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	10,032

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	X Greg Todd	Lovel Young	00844	

HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL 4110

TICKET No.

FORM 1911 R-9

CUSTOMER: ANR Prod.

WELL: TWE 1-9B35

DATE: 8-2-94

PAGE: OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
509-406	890-50812				CALCIUM CHLORIDE	9	SK			MM 55	400
158-046					FLOW CHEK A	1	EA	840	GAL	3 25	2730
504-050 043	516.00261				Premium Plus Cement	300	SK			10 39	3,117
508-127	516.00770				CalSEAL mixed 12%	34	SK			29 50	1,003
509-406	890.50812				Calcium Chloride 2%	6	SK			44 55	267
507-210	890.50071				Flocele mixed 1/4#/SK	75	LB			1 70	127
508-291	516.00337				Gilsonite mixed 12.5#/SK	3,750	LB			.40	1,500
500-207					SERVICE CHARGE	CUBIC FEET 437				1 35	589
500-306					MILEAGE CHARGE / TOTAL WEIGHT 35,860 / LOADED MILES 75	TON MILES 1344.75				75	1277

CONTINUATION TOTAL 11013

HALLIBURTON SERVICES

JOP SUMMARY

HALLIBURTON DIVISION: WESTERN

HALLIBURTON LOCATION: VERNAL

BILLED ON TICKET NO. 549081

WELL DATA

FIELD: N. DUCHESNE SEC. TWP. RNG. COUNTY: DUCHESNE STATE: UTAH

FORMATION NAME: TYPE:

FORMATION THICKNESS: FROM: TO:

INITIAL PROD: OIL: BPD WATER: BPD GAS: MCFD

PRESENT PROD: OIL: BPD WATER: BPD GAS: MCFD

COMPLETION DATE: MUD TYPE: MUD WT:

PACKER TYPE: SET AT:

BOTTOM HOLE TEMP: PRESSURE:

MISC. DATA: TOTAL DEPTH:

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	4	24	7	0	TD	
LINER						
TUBING	4	6.9	2 7/8	0	5815	
OPEN HOLE						SHOTS/FT
PERFORATIONS				6060		4
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-2-94	DATE 8-2-94	DATE 8-2-94	DATE 8-2-94
TIME 0400	TIME 0700	TIME 0830	TIME 1130

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R RASMUSSEN	PICKUP	VERNAL
L. YOUNG	"	"
K. PETERSON	RCM 75616	"
D. HAKEY	BULK	"

MATERIALS

TREAT. FLUID: DENSITY: LB/GAL.-API°

DISPL. FLUID: DENSITY: LB/GAL.-API°

PROP. TYPE: SIZE: LB.

PROP. TYPE: SIZE: LB.

ACID TYPE: GAL: %

ACID TYPE: GAL: %

ACID TYPE: GAL: %

SURFACTANT TYPE: GAL: IN

NE AGENT TYPE: GAL: IN

FLUID LOSS ADD. TYPE: GAL.-LB: IN

GELLING AGENT TYPE: GAL.-LB: IN

FRIC. RED. AGENT TYPE: GAL.-LB: IN

BREAKER TYPE: GAL.-LB: IN

BLOCKING AGENT TYPE: GAL.-LB.

PERFPAC BALLS TYPE: QTY.

OTHER:

OTHER:

DEPARTMENT: CEMENT

DESCRIPTION OF JOB: SQUEEZE

JOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TBG./ANN ☐

CUSTOMER REPRESENTATIVE: X Greg Todd

HALLIBURTON OPERATOR: Jared Yeremy

COPIES REQUESTED: 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	300	PREMIUM	I	B	12-2 THIXOTROPIC 12.5# SK GILSONITE 1/4 #/SK FLOCELE	1.77	13.5

PRESSURES IN PSI

CIRCULATING: DISPLACEMENT:

BREAKDOWN: MAXIMUM:

AVERAGE: FRACTURE GRADIENT:

SHUT-IN: INSTANT: 5-MIN: 15-MIN:

HYDRAULIC HORSEPOWER

ORDERED: AVAILABLE: USED:

AVERAGE RATES IN BPM

TREATING: DISPL: OVERALL:

CEMENT LEFT IN PIPE

FEET: REASON:

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL: TYPE:

LOAD & BKDN: BBL.-GAL: PAD: BBL.-GAL:

TREATMENT: BBL.-GAL: DISPL: BBL.-GAL:

CEMENT SLURRY: BBL.-GAL:

TOTAL VOLUME: BBL.-GAL:

REMARKS

SEE JOB LOG

FORM 2025-R2

HALLIBURTON

DATE 8-2-94 | PAGE NO. 1

JOB LOG FORM 2013 R-4

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
ANR PRODUCTION	1-9 B5	TWE	SQUEEZE	

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0700							ON LOCATION
	0830	4	0					FILL CASING PKR @ 5815 29#
	0840	0	2.5				2000	TEST CASING GOOD
	0900	4	0			300		START FRESH INJ RATE PERFS @ 6066
	0904	4	10			1000		END FRESH
	0904	4	0			1000		START ~~FLOCHEK~~ CALCIUM CHLORIDE
	0907	4	20			1000		END ~~FLOCHEK~~ CALCIUM CHLORIDE
	0909	4	0			1000		START FRESH
	0910	4	5			1000		END FRESH
	0910	4	0			1000		START FLOWCHEK
	0915	4	20			1000		END FLOCHEK
	0915	4	0			1000		START CEMENT 1.77 CU/FT 13.5#
	0920	4.3	18			800		~~FLO~~CHEK @ PERFS
	0928	4.3	43			1200		CEMENT @ PERFS
	0937	4	94.5			1400		END CEMENT
	0937	4	0			1400		START DISP.
	0945	4	35			2100		CEMENT CLEAR PKR
	0946	.25	36			1100		SLOW RATE
	0957	0	39			2000		SHUT DOWN
	1000	.25	39			1600		PUMP
	1001	0	39.3			2000		SHUT DOWN HOLDING
	1010							RELEASE PST SLOW BROKE SQUEEZ
								PUMP BACK UP
	1015	0	40			2000		HOLD WOC
	1105							RELEASE PST
	1110	3	0				500	START REVERSE
	1140	0	80			0	0	END REVERSE
								END JOB
								THANKS
								Jim

09/15/94 TICKET SUMMARY FTINQ02

TICKET HAS BEEN COMPLETED PAGE 1

CUST: 000094 A N R PRODUCTION CO. FILE-NO: 74379
P.O. BOX 749
DENVER, CO 80201

CUSTOM INV REQ NO:
CUSTOM INVOICE NO:

TICKET NO: 598941 PSL: VERNAL, UT. COMPANY: HALLIBURTON
JOB DATE: 08-03-1994 JOB PURPOSE: 205 RECEMENT
ENTRY DATE: 08-04-1994 ENTRY-LOC: VERNAL, UT.
PRINT DATE: 08-04-1994 PRINT-LOC: VERNAL, UT.
COMPLETE DATE: 08-04-1994 CURRENT PROCESS: COMPLETED
TRANS TYPE: SERVICE
REFERRAL-LOC:

WELL-LEASE: TWE 1-9B5
LOCATION CLASS: LAND
LOCATION: COUNTY: DUCHESNE
STATE: UTAH

TICKET AMOUNTS		
$	10,150.92	: SUB TOTAL
$	0.00	: ROYALTIES
$	3,045.26-	: DISCOUNTS
$	0.00	: JOB ADJ
$	293.83	: TAXES
$	0.00	: PRICE ADJ
$	7,399.49	: TICKET TTL

$7,105.66 :BID

TICKET NO: > 598941 < PRESS: PA1 = CONTINUE; PF3 = LI DISP; PF7 = ROYALTY INQ
LINE-ITEM NO: > 1 < ENTER = NEW TKT SUM; PF6 = LI TAX/PR ADJ DISP

FTINQ03

09/15/94
TICKET NO: 598941
PSL: VERNAL, UT.
JOB DATE: 08/03/1994

LINE ITEM DISPLAY
CUSTOMER: 000094 A N R PRODUCTION CO.
JOB PURPOSE: RECEMENT
WELL-LEASE-NO: TWE 1-9B5

TICKET IS COMPLETED

ITEM	PRICE REF	ACCT		QTY	U/M		PRICE ($)	AMOUNT ($)
0001	000-117		MILEAGE CEMENTING ROUND TRI				2.75	206.25
								61.87- DS
		WESTERN		75	MI			
				1	UNT			144.38 TTL
	08-03							
0002	009-019		PLUGGING BK SPOT CEMENT			OR	2,800.00	2,800.00
								840.00- DS
		WESTERN		5500	FT			
				1	UNT			1,960.00 TTL
	08-03							
0003	504-275		CEMENT HIFILL			OV	22.27	4,899.40
								1,469.82- DS
		VERNAL		220	SK	BK	18.17	
								3,429.58 TTL
	08-03							

TICKET NO: > 598941 < PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB ADJ PF7 = ROY
LINE-ITEM NO: > 1 < ENTER = LI PF2 = TKT PF6 = TAX/PA PF8 = COMP PF9 =COMMIS

09/15/94 LINE ITEM DISPLAY FTINQ03

TICKET NO: 598941 CUSTOMER: 000094 A N R PRODUCTION CO.

PSL: VERNAL, UT. JOB PURPOSE: RECEMENT

JOB DATE: 08/03/1994 WELL-LEASE-NO: TWE 1-9B5

TICKET IS COMPLETED PAGE 2

ITEM	PRICE REF	ACCT		QTY	U/M	PRICE ($)	AMOUNT ($)
0004	504-043		CEMENT - PREMIUM			10.39	519.50
		VERNAL		50	SK		155.85- DS
	08-03						363.65 TTL
0005	509-406		ANHYDROUS CALCIUM CHLORIDE			44.55	44.55
		VERNAL		1	SK		13.36- DS
	08-03						31.19 TTL
0006	500-207		BULK SERVICE CHARGE			1.35	545.40
		WESTERN		404	CFT		163.62- DS
	08-03						381.78 TTL

TICKET NO: > 598941 < PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB ADJ PF7 = ROY

LINE-ITEM NO: > 1 < ENTER = LI PF2 = TKT PF6 = TAX/PA PF8 = COMP PF9 =COMMIS

FTINQ03

09/15/94
TICKET NO: 598941
PSL: VERNAL, UT.
JOB DATE: 08/03/1994

LINE ITEM DISPLAY
CUSTOMER: 000094 A N R PRODUCTION CO.
JOB PURPOSE: RECEMENT
WELL-LEASE-NO: TWE 1-9B5
TICKET IS COMPLETED

LAST PAGE 3

ITEM	PRICE REF	ACCT		QTY	U/M	PRICE ($)	AMOUNT ($)
0007	500-306		MILEAGE CMTG MAT DEL OR RET			0.95	1,135.82
		WESTERN		1195.6	TMI		340.74- DS
		08-03					795.08 TTL

********** END OF LINE ITEMS **********

TICKET NO: > 598941 < PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB ADJ PF7 = ROY
LINE-ITEM NO: > 1 < ENTER = LI PF2 = TKT PF6 = TAX/PA PF8 = COMP PF9 =COMMIS

HALLIBURTON

HALLIBURTON ENERGY SERVICES

HAL-1906-N

ADDRESS: ANR

CITY, STATE, ZIP CODE:

No. 718928 - 1

PAGE 1 OF 2

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. VERNAL	1-9B5	TEW	DUCHESNE	UT	TALMAGE	8-12-94	SAME
2.	TICKET TYPE: ☒ SERVICE ☐ SALES	NITROGEN JOB? ☐ YES ☒ NO	CONTRACTOR: WESTERN WELL SVC	RIG NAME/NO.	SHIPPED VIA: TRKS	DELIVERED TO: LOCATION	ORDER NO.
3.	WELL TYPE: 01	WELL CATEGORY: 02	JOB PURPOSE: 075		WELL PERMIT NO.		WELL LOCATION
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000117					MILEAGE RCM 7060	1	EA	25	MILE	2.75	206.25
009 019					PUMP CHARGE 395	1	EA	8	HR	925.00	925.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X D. Jorgensen Afe

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

I ☐ do ☐ do not require IPC (Instrument Protection) ☐ Not offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK | DEPTH

BEAN SIZE | SPACERS

TYPE OF EQUALIZING SUB. | CASING PRESSURE

TUBING SIZE | TUBING PRESSURE | WELL DEPTH

TREE CONNECTION | TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	1181
FROM CONTINUATION PAGE(S)	1056
LESS 30% DISCOUNT	671.25
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	1566

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	X D. Jorgensen Afe			

HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1911 R-9

TICKET CONTINUATION

ORIGINAL 4156

TICKET No. 718928

CUSTOMER ANR | WELL TWE 1-9B5 | DATE 8-17-94 | PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
504-050	516.00261				Pram Plus NEET	205				10.35	727.50
500-207					SERVICE CHARGE	CUBIC FEET 70				1.35	94.50
500-306					MILEAGE CHARGE / TOTAL WEIGHT 6580 / LOADED MILES 75	TON MILES 247				.95	234.65
										CONTINUATION TOTAL	1056.45

HALLIBURTON

J 3 SUMMARY

HALLIBURTON DIVISION: WESTERN

HALLIBURTON LOCATION: VERNAL

BILLED ON TICKET NO.: 118428

CUSTOMER

WELL DATA

FIELD: TALMAGE SEC. TWP. RNG. COUNTY: DUCHESNE STATE: UTAH

FORMATION NAME: TYPE:

FORMATION THICKNESS: FROM: TO:

INITIAL PROD: OIL: BPD. WATER: BPD. GAS: MCFD

PRESENT PROD: OIL: BPD. WATER: BPD. GAS: MCFD

COMPLETION DATE: MUD TYPE: MUD WT.

PACKER TYPE: SET AT:

BOTTOM HOLE TEMP.: PRESSURE:

MISC. DATA: TOTAL DEPTH:

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U		7"	0	TD	
LINER						
TUBING	U	6.5	2 3/8	0	214	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				395'		
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-17-94	DATE 8-17-	DATE 8-17	DATE 8-17-94
TIME 1300	TIME 1500	TIME 1553	TIME 1607

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO & TYPE	LOCATION
J DIRZUWEIT	39848 PU	VERNAL
R HARDINGER	7060 Rem	"
J JACKSON	3160 BULK	"

MATERIALS

TREAT. FLUID: DENSITY: LB/GAL. °API

DISPL. FLUID: DENSITY: LB/GAL. °API

PROP. TYPE: SIZE: LB.

PROP. TYPE: SIZE: LB.

ACID TYPE: GAL: %

ACID TYPE: GAL: %

ACID TYPE: GAL: %

SURFACTANT TYPE: GAL.: IN:

NE AGENT TYPE: GAL.: IN:

FLUID LOSS ADD. TYPE: GAL.-LB.: IN:

GELLING AGENT TYPE: GAL.-LB.: IN:

FRIC. RED. AGENT TYPE: GAL.-LB.: IN:

BREAKER TYPE: GAL.-LB.: IN:

BLOCKING AGENT TYPE: GAL.-LB:

PERFPAC BALLS TYPE: QTY.:

OTHER:

OTHER:

DEPARTMENT: 5001

DESCRIPTION OF JOB: PC CMT THRU PERFS TO SURFACE

JOB DONE THRU: TUBING [X] CASING [ ] ANNULUS [ ] TBG./ANN [ ]

CUSTOMER REPRESENTATIVE: X D. Fournier AFE

HALLIBURTON OPERATOR: COPIES REQUESTED:

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK/SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	70	TYPE V	AG	B	NONE	1.18	15.6

PRESSURES IN PSI

CIRCULATING: DISPLACEMENT:

BREAKDOWN: MAXIMUM:

AVERAGE: FRACTURE GRADIENT:

SHUT-IN: INSTANT: 5-MIN.: 15-MIN.:

HYDRAULIC HORSEPOWER

ORDERED: AVAILABLE: USED:

AVERAGE RATES IN BPM

TREATING: DISPL.: OVERALL:

CEMENT LEFT IN PIPE

FEET: REASON:

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL.: 10 TYPE: FRESH

LOAD & BKDN: BBL.-GAL.: PAD: BBL.-GAL.:

TREATMENT: BBL.-GAL.: DISPL: BBL.-GAL.: 1.5

CEMENT SLURRY: BBL.-GAL.: 14.7

TOTAL VOLUME: BBL.-GAL.: 32.2

REMARKS

SEE JOB LOG

FORM 2025-R4

HALLIBURTON

DATE 8-17-94 | PAGE NO. 1

JOB LOG FORM 2013 R-4

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
ANR	1-9 B5	TCW	SQUEEZE	718928

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1300							CALLED OUT
	1500							ON LOC RIG UP
	1553	2	0			0		ESTABLISH CIRC - INJ TEST
	1558	3.5	10			400		END FRESH 400 PSI @ 3.5 BPM
	1559	3.5	0			400		START CMT
	1603	3	14.7			480		END CMT
	1603	3	0			480		START DISP
	1605	2.5	7.5			465		END DISP
	1605							SHUT IN TBG & CSG
	1607							END JOB

THANK

JOHN

RON

+

JUSTIN

COASTAL OIL & GAS CORPORATION
600 17TH STREET, SUITE 800S
DENVER, COLORADO 80201

DATE: September 16, 1994

FACSIMILE TRANSMITTAL PAGE

(5) — didn't fax previously

THIS TRANSMISSION CONSISTS OF ~~20~~ PAGES (INCLUDING COVER)

TO: Gill Hunt

COMPANY/FIRM: State of UT

CITY/STATE:

FAX #: (801) 359-3940 **CONFIRMATION #:**

FROM: Marc Ernst

TELEPHONE #: (303) 573-4454

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ORIGINAL

HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET No. 718928 - 1

PAGE 1 OF 2

CHARGE TO: ANR

ADDRESS

CITY, STATE, ZIP CODE

HAL-1906-R

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. VERNAL	1-9B5	TSW	DUCHESNE	UT	TALMADGE	8-12-94	SAME
2.	TICKET TYPE: SERVICE / SALES; NITROGEN JOB? YES / NO	CONTRACTOR: WESTERN NGL SK	RIG NAME/NO.	SHIPPED VIA: TRKS	DELIVERED TO: LOCATION	ORDER NO	
3.	WELL TYPE: 01	WELL CATEGORY: 02	JOB PURPOSE: 025		WELL PERMIT NO	WELL LOCATION	
4.							
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCOUNTING ACCT	ACCOUNTING DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000 117					MILEAGE RCM 7060	1	EA	25	MILE	2.75	206
009 019					PUMP CHARGE 395	1	EA	8	HR	925.00	925

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X J. Jensen AFE

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

1 ☐ do ☐ do not require IPC (Instrument Protection) ☐ Not Offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK	DEPTH
BEAN SIZE	SPACERS
TYPE OF EQUALIZING SUB.	CASING PRESSURE
TUBING SIZE	TUBING PRESSURE / WELL DEPTH
TREE CONNECTION	TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	1181
FROM CONTINUATION PAGE(S)	1056
LESS 30% DISCOUNT	671
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	1566

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) | CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X J. Jensen AFE | HALLIBURTON OPERATOR/ENGINEER | EMP # | HALLIBURTON APPROVAL

SEP 16'94 11:01 No.014 P.02

ID:303-573-4417

303 573 4417

HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL 4132

TICKET No. 718928

CUSTOMER ANR

WELL TWE 1-9B5

DATE 8-17-94

PAGE 2 OF 2

FORM 1911 R-9

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCOUNTING ACCT	ACCOUNTING DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
S04-050	516.00261				Prem plus NEET	70	sk			10.39	727.30
S00-207					SERVICE CHARGE	CUBIC FEET 70				1.35	94.50
S00-306					MILEAGE CHARGE TOTAL WEIGHT 6580 LOADED MILES 25	TON MILES 247				.95	234.65

CONTINUATION TOTAL 1056.45

HALLIBURTON JOB SUMMARY

HALLIBURTON LOCATION VERNAL BILLED ON TICKET NO. 218928

WELL DATA

FIELD TALMAGE SEC. TWP. RNG. COUNTY DUCHESNE STATE UTAH

FORMATION NAME TYPE

FORMATION THICKNESS FROM TO

INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD

PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD

COMPLETION DATE MUD TYPE MUD WT.

PACKER TYPE SET AT

BOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U		7"	0	TD	
LINER						
TUBING	U	6.5	2 3/8	0	214	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				395		
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8/17/94	DATE 8-17-	DATE 8-17	DATE 8-17-94
TIME 1300	TIME 1500	TIME 1553	TIME 1607

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J DIRZUWEIT	39848 PU	VERNAL
R HARDINGER	7060 RCM	"
J JACKSON	3760 BULK	"

MATERIALS

TREAT. FLUID DENSITY LB/GAL. °API

DISPL. FLUID DENSITY LB/GAL. °API

PROP. TYPE SIZE LB.

PROP. TYPE SIZE LB.

ACID TYPE GAL. %

ACID TYPE GAL. %

ACID TYPE GAL. %

SURFACTANT TYPE GAL. IN

NE AGENT TYPE GAL. IN

FLUID LOSS ADD. TYPE GAL.-LB. IN

GELLING AGENT TYPE GAL.-LB. IN

FRIC. RED. AGENT TYPE GAL.-LB. IN

BREAKER TYPE GAL.-LB. IN

BLOCKING AGENT TYPE GAL.-LB.

PERFPAC BALLS TYPE QTY.

OTHER

OTHER

DEPARTMENT 5001

DESCRIPTION OF JOB PC CMT THRU PERFS TO SURFACE

JOB DONE THRU: TUBING X CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X D Fonnen AFE

HALLIBURTON OPERATOR COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	70	TYPE V	AG	B	NONE	1.18	15.6

PRESSURES IN PSI

CIRCULATING DISPLACEMENT

BREAKDOWN MAXIMUM

AVERAGE FRACTURE GRADIENT

SHUT-IN: INSTANT 5-MIN. 15-MIN.

HYDRAULIC HORSEPOWER

ORDERED AVAILABLE USED

AVERAGE RATES IN BPM

TREATING DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET REASON

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. 10 TYPE FRESH

LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.

TREATMENT: BBL.-GAL. DISPL: BBL.-GAL. 1.5

CEMENT SLURRY: BBL.-GAL. 14.5

TOTAL VOLUME: BBL.-GAL. 30.2

REMARKS

SEE JOB LOG

CUSTOMER ANR LEASE FED WELL NO. 1-35B JOB TYPE SURFACE DATE 8-17-94

FORM 2025-R4

HALLIBURTON

DATE 8-17-94 PAGE NO. 1

JOB LOG FORM 2013 R-4 TICKET NO. 718928

CUSTOMER ANR WELL NO. 1-9B5 DISTRICT TCW JOB TYPE SQUEEZE

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1300							CALLED OUT
	1500							ON LOC RIG UP
	1553	2	0			0		ESTABLISH CIRC - INJ TEST
	1558	3.5	10			400		END FRESH 400 PSI @ 3.5 BPM
	1559	3.5	0			400		START CMT
	1603	3	14.7			480		END CMT
	1603	3	0			480		START DISP
	1605	2.5	7.5			465		END DISP
	1605							SHUT IN TBG & CSG
	1607							END JOB
								THANK
								JOHN
								RON
								&
								JUSTIN

Champion Technologies, Inc.
2080 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report For:
cc.
cc.
cc.
Service Engineer: ED SCHWARZ

Report #: 940536
Date Sampled: 10-6-94
Date Received: 10-6-94
Date Reported: 10-6-94

Chemical Component	1-9B5 1:00 PM	1-9B5 2:00 PM	1-9B5 3:00 PM
Chloride (mg/l)	21000	20000	19000
Sulfate (mg/l)	437	500	437
Carbonate (mg/l)	33120	32520	32640
Bicarbonate (mg/l)	35136	35526	34746
Calcium (mg/l)	200	160	160
Magnesium (mg/l)	73	73	97
Iron (mg/l)	18	17	17
Barium (mg/l)	n/d	n/d	n/d
Strontium (mg/l)	n/d	n/d	n/d
Sodium (mg/l)	52076	51189	50264
pH	9.9	9.8	9.9
Ionic Strength	2.85	2.7	2.76
Specific Gravity	1.056	1.0	1.055
SI@20C (68F)	4.44	4.2	4.30
SI@25C (77F)	4.58	4.30	4.44
SI@30C (86F)	4.65	4.43	4.51
SI@40C (104F)	4.87	4.65	4.73
SI@50C (122F)	5.12	4.90	4.98
SI@60C (140F)	5.48	5.26	5.34
SI@70C (158F)	5.76	5.54	5.62
SI@80C (176F)	6.13	5.90	5.98
SI@90C (194F)	6.55	6.32	6.40
TDS (mg/l)	142059	139985	137361
Temperature (F)			
Dissolved CO2 (ppm)	n/d	n/d	n/d
Dissolved H2S (ppm)	n/d	n/d	n/d
Dissolved O2 (ppm)	n/d	n/d	n/d

Analyst: T. Mayer

ctech\watrfor3.wk1

COASTAL OIL & GAS CORPORATION
600 17TH STREET, SUITE 800S
DENVER, COLORADO 80201

DATE: September 16, 1994

FACSIMILE TRANSMITTAL PAGE

THIS TRANSMISSION CONSISTS OF 20 PAGES (INCLUDING COVER)

TO: Gill Hunt

COMPANY/FIRM: State of UT

CITY/STATE:

FAX #: (801) 359-3940 **CONFIRMATION #:**

FROM: Marc Ernest

TELEPHONE #: (303) 573-4454

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THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION) PAGE 1
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0% ANR AFE: 64801
TD: 15,337'
7" @ 11,999'
PROPOSED INJECTION INTERVALS: 3700'-5800' (UINTA)
5900'-6400' (U. GREEN RIVER)
CWC(M$): 192.0

7/19/94 RU rig.
Too windy to RU rig. CC: $2,260

7/20/94 DO cmt.
RU. Welder cut off plate and dressed 7" csg stub. Install 5000 x 7-1/16" tbg spool. PT to 2500#. Install BOP's. MU 3⅛" DC's w/6" drag bit. DO cmt from sfc to 60'. CC: $7,675

7/21/94 Mill on cmt @ 190'.
Drill cmt from 60'-160'. Stand pipe plugged up. Mill from 160'-190'. Keeps plugging up - acts like bit partially plugged. POOH w/tbg, DC's, bit. Bit plugged w/cmt. RIH w/6" drag bit, 6 - 3⅛" DC's. CC: $10,559

7/22/94 Mill on cmt @ 5568'.
Drill cmt from 190'-265', fell thru. PU 165 jts 2⅞", tag @ 5568'. CC: $13,669

7/23-24/95 SD for weekend.

7/25/94 Drill on cmt.
PT csg to 2200#/15 min - OK. RU swivel. Tag @ 5568'. Mill cmt to 5641'. Drive line broke. Circ clean. CC: $16,121

7/26/94 Drill on cmt.
PU swivel. DO cmt from 5641' to 5933' (292', avg 29'/hr). Circ btms up. PU. CC: $19,596

7/27/94 Prep to run Bond Log.
Drill cmt @ 5933'-6018', fell thru. RIH to 6058'. Circ btms up. PT csg to 2200#/15 min - good. RD swivel. PU 2⅞" tbg. RIH, tag @ 9683'. Circ well. PT to 2200#, hold. POOH w/2⅞" tbg, 8rd collars, drag bit. CC: $22,979

7/28/94 Prep to perf. RIH w/4" guns. Shoot 4 sqz holes @ 6400' & 6060'. RD OWP. RIH w/Mtn States 7" HD pkr, 140 jts 2⅞" tbg. CC: $33,376

7/29/94 RIH w/bit.
Continue to RIH w/2⅞" tbg, set pkr @ 6108'. Pump down tbg, 3 BPM @ 700# - not getting full returns. Rls pkr, POOH w/2⅞" tbg. RIH w/Mtn States 7" SV retainer, 2⅞" tbg, set retainer @ 6330'. RU Halliburton to cmt perfs @ 6400', w/returns thru perfs @ 6060'. Pump 10 BFW, 10 bbls $CaCl_2$, 5 BFW, 10 bbls Flocheck, 5 BFW, 190 sx 50/50 poz w/additives, 1.53 yield, 13.5 ppg, 10 BFW, 26 bbls prod wtr (very little returns). Pull out of retainer. POOH w/rest of 2⅞", stinger, WOC. CC: $49,112

7/30-31/94 SD for weekend.

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION) PAGE 2
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/1/94 RIH w/pkr, prep to sqz perfs @ 6060'.
Pump 20 bbls prod wtr down csg, pressure tbg to 800#, broke back to 500# @ 3 BPM. RIH w/6" drag bit, 8 - 3⅛" DC's, 2⅞" tbg. Tag TOC @ 6325'. POOH w/2⅞" tbg, DC's, drag bit. RU OWP. Run Temp Svy from 6325' to 6060' - temp changed @ 6060'. See abnormal heat change from 6060' to cmt top (indication of cmt throughout interval). POOH. RD OWP. RIH w/7" Mtn States HD pkr, SN, 110 jts 2⅞". CC: $54,015

8/2/94 POOH w/tbg.
Continue to RIH w/2⅞". Set 7" pkr @ 5815'. RU Halliburton to cmt sqz hole @ 6060'. PT to 2000#, hold. Est inj rate down tbg, 4 BPM @ 1100#. Pump 10 BFW, 20 bbls $CaCl_2$, 5 BFW, 20 bbls Flocheck, 5 BFW, 300 sx Thixotropic cmt w/additives, 1.77 yield, 13.5#, 94.5 bbls slurry, 10 BFW, 30 bbls prod wtr. Sqz to 2000#, hold. Rls pkr, rev w/50 bbls prod wtr. Pull to 5190', set pkr. Pressure to 1000#. RD Halliburton. CC: $67,014

8/3/94 WOC.
Rls pkr. POOH w/2⅞" tbg, 7" pkr. Fill 7" csg, PT to 2000#. RU OWP. Perf 4 holes @ 5670' with 1-11/16" circ guns. Try to circ. Pressure to 2000#, hold. Pump down 9⅝", took 20 bbls to fill w/900#, injecting 2 BPM with no circ. Perf 4 holes @ 5060' with 1-11/16" circ guns. Circ down 7" out 9⅝" @ 4 BPM @ 700#. RIH w/pkr. Pump 10 BFW, 220 sx Hifill (11.0 ppg, 3.82 CF/sx, 149.6 bbls slurry, 50 sx Premium Plus w/2% $CaCl_2$ (15.6 ppg, 1.18 CF/sx), 10.5 bbls slurry, 10 BFW, 27 bbls prod wtr. Did not circ out any cmt, had good returns thru job. Sting out of retainer. POOH w/2⅞" tbg. CC: $81,638

8/4/94 Prep to check cmt top.
WOC. CC: $81,638

8/5/94 DO cmt.
RU OWP to log - run CBL from 4939' to sfc, TOC looks like 2930'. Perf 4 holes @ 2925' with 1-11/16" circ guns. Attempt to circ down 7". Pressure to 2000# - no circ. Perf 4 holes @ 2200'. Attempt to circ down 7" csg. Pressure to 2000# - no circ. Decide to DO

8/6-7/94 SD for weekend.

8/8/94 Continue drlg retainer.
Continue to drill cmt from 4960' to top of CICR @ 5000'. Made total of 11" to 5001'. Circ btms up. CC: $94,398

8/9/94 Drlg cmt @ 5960'.
Finish drlg up CICR @ 5001' and cmt. Fell out of cmt @ 5068'. Circ clean. PT csg & perf @ 5060' to 2025#, 15 min 1800#. RIH, tag TOC @ 5929'. Drill to 5960' - made 31', cmt soft. Circ btms up. CC: $97,610

8/10/94 Drill CICR @ 6330'.
Continue to drill cmt. Breaks thru @ 6092'. Circ btms up. PT 2000# - lost pressure, 15 min - 1800#. RIH, tag cmt @ 6322'. Drill cmt to top or retainer @ 6330'. CC: $100,881

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/11/94 POH w/bit.
Tag retainer @ 6330'. Drill to 6331'. Circ btms up. CC: $104,247

8/12/94 Mill on retainer.
POOH w/worn bit. RIH w/6⅛" bladed mill, XO's, 8 - 3⅛" DC's, 188 jts 2⅞" tbg, tag @ 6331'. RU swivel. Break circ. Drld 2". Pull mill off btm, circ btms up. CC: $107,782

8/13-14/94 SD for weekend.

8/15/94 Drill on cmt & retainer.
RIH, tag @ 6331'. Est circ. Mill plugging up. RD swivel. POOH w/2⅞" tbg, DC's, 6" mill. RIH w/6" rock bit, collars, 2⅞" tbg. PU swivel, est circ. Drill on retainer to 6333' (acts like btm of retainer spinning). Circ btms up. CC: $111,942

8/16/94 POOH w/2⅞" tbg.
Dill on retainer & cmt from 6333' to 6415', fell thru. RIH to 6435'. Circ btms up. PT to 2025# ISIP, 5 min - 1950#, 10 min 1925#, 15 min 1900#. RIH to 7050', no tag. Remove strip head. POOH w/2⅞" tbg, EOT @ 4800'. CC: $115,314

8/17/94 WOC, rls pkr.
Finish POOH w/2⅞", DC's, 6" bit. RU OWP, log GR/CBL from 0-6500' w/2000# on well. TOC @ 400'. Perf 4 shots @ 395'. POOH, RD OWP. Est circ, good. RIH w/Mtn States 7" 32-A pkr, 6 jts 2⅞", set @ 214' w/20,000# tension. RU Halliburton to cmt sqz holes @ 395'. Est circ down 2⅞" tbg, 3.5 BPM @ 400#. Pump 10 BFW, 70 sx Type 5 neat cmt, 1.18 yield (14.7 bbls), 7.5 BFW. Circ cmt to sfc up 9⅝" csg. RD Halliburton. CC: $124,442

8/18/94 Prep to log well.
Rls pkr. POOH w/6 jts 2⅞", 7" pkr. RIH w/6" drag bit, 8 jts DC's, 2 jts 2⅞", tag @ 355'. RU drlg rubber, power swivel. Drill cmt to 400', fell thru. RIH to 465', circ btms up. PT csg to 2025# ISIP, 5 min - 1975#, 10 min 1950#, 15 min 1925#. RD swivel, drlg rubber. POOH w/tbg, DC's, drag bit. CC:$127,033

8/19/94 Logging well.
RU Schlumberger. Run Schlumberger Digital Sonic & Neutron Log from 8000' to sfc. Run CBL from 600' to sfc. RD WL. CC: $145,187

8/20-21/94 SD for weekend.

8/22/94 Evaluating logs for perf schedule.

8/23/94 RDMO.
Move to the Ute #2-22B6. Evaluating logs for perf schedule. Drop from report until further activity. CC: $145,187

SEP 16'94 10:08 No.013 P.05

ID:303-573-4417

303 573 4417

ORIGINAL

HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET No. 598918 - [

PAGE 1 OF

CHARGE TO: A.N.R. Prod

ADDRESS

CITY, STATE, ZIP CODE

FORM 1906 R-13

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. VERNAL	1-9B5	TWE	DUCHESNE	UT	TALMAGE	7/29/94	
2.	TICKET TYPE: ☑ SERVICE ☐ SALES	NITROGEN JOB? ☐ YES ☑ NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO: HALO LOCATION	ORDER NO.
3.	WELL TYPE: 01	WELL CATEGORY: 02	JOB PURPOSE: 112			WELL PERMIT NO.	WELL LOCATION
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS: PROVIDE MEN, EQUIPMENT & MATERIALS TO SQUEEZE PERFS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117					MILEAGE RCM 7061	75	MI			2 75	206
009-019					PUMP CHARGE	1	EA	4330	—	3120 -	3120
158-097					FLOCHEK	420	gal			5 00	2100
509-406	890, 50812				CALCIUM CHLORIDE	5	SKS			44 55	222

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY,** and **LIMITED WARRANTY** provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X J.D. Foreman APC

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

I ☐ do ☐ do not require IPC (Instrument Protection). ☐ Not offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK	DEPTH
BEAN SIZE	SPACERS
TYPE OF EQUALIZING SUB.	CASING PRESSURE
TUBING SIZE	TUBING PRESSURE / WELL DEPTH
TREE CONNECTION	TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	5649
FROM CONTINUATION PAGE(S)	3648
	9297
Less 30% DISC	2,784
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	6507

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
Jim Foreman	X J.D. Foreman APC	Jeff Wade	04180	

HALLIBURTON
HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL 405

TICKET No. 5981

CUSTOMER ANR Productions | WELL TWE 1-9B5 | DATE 07-29-94 | OF

FORM 1911-R-9

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
040											
504-050	516.00261				Premium Plus Cement	951	SK			10.39	9887.89
506-105	516.00286				Poz mix "A"	670	lb			.0735	247.7
506-121	516.00259				Gel 2% Allowed w/Poz	3	SK			N/C	
509-968	516.00158				Salt 10% BWOW	990	lb			.1548	153.45
508-291	516.00337				Gilsonite 12½ #/SK	2375	lb			.465	1104.69
507-210	890.50071				Flocele ¼ #/SK	47	lb			1.70	79.90
					SERVICE CHARGE		CUBIC FEET	260			1335.00
500-207					MILEAGE CHARGE	TOTAL WEIGHT 18,916	LOADED MILES 75	TON MILES	709.35		957.38
500-306											

CONTINUATION TOTAL 12.04

HALLIBURTON SUMMARY

HALLIBURTON LOCATION VERNAL TICKET NO.

WELL DATA

FIELD TABBY SEC. TWP. RNG. COUNTY DUCHESNE STATE UTAH

FORMATION NAME TYPE
FORMATION THICKNESS FROM TO
INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD
PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD
COMPLETION DATE MUD TYPE MUD WT.
PACKER TYPE SET AT
BOTTOM HOLE TEMP. PRESSURE
MISC. DATA TOTAL DEPTH

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	23	7	0	T.D.	5000
LINER						
TUBING	U	6.5	2.875	0	6330	5000
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7/29/94	DATE 7/29/94	DATE 7/29/94	DATE 7/29/94
TIME 09:30	TIME 11:45	TIME 13:00	TIME 14:20

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO & TYPE	LOCATION
J. WEEKS OPER	40958	VERNAL
D. REYNOLDS RCM	7061	
J. VANDYKE BULK	23528	

MATERIALS

TREAT FLUID DENSITY LB/GAL °API
DISPL. FLUID DENSITY LB/GAL °API
PROP. TYPE SIZE LB.
PROP. TYPE SIZE LB.
ACID TYPE GAL. %
ACID TYPE GAL. %
ACID TYPE GAL. %
SURFACTANT TYPE GAL. IN
NE AGENT TYPE GAL IN
FLUID LOSS ADD. TYPE GAL.-LB. IN
GELLING AGENT TYPE GAL./LB. IN
PRIC. RED. AGENT TYPE GAL.-LB. IN
BREAKER TYPE GAL.-LB. IN
BLOCKING AGENT TYPE GAL.-LB.
PERFPAC BALLS TYPE QTY.
OTHER
OTHER

DEPARTMENT CEMENT
DESCRIPTION OF JOB SQUEEZE W/ FLOWTEK THRU RETAINER

JOB DONE THRU: TUBING ☑ CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X D.D. Foreman
HALLIBURTON OPERATOR Jeff Weeks COPIES REQUESTED

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK/SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	190	50-50 POZ	V	B	2% GEL 10% SALT 12½# GILSONITE ¼# FLOCELE	1.54	13.5

PRESSURES IN PSI

CIRCULATING DISPLACEMENT
BREAKDOWN MAXIMUM
AVERAGE FRACTURE GRADIENT
SHUT-IN: INSTANT 5-MIN 15-MIN

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. TYPE
LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.
TREATMENT: BBL.-GAL. DISPL: BBL.-GAL.
CEMENT SLURRY: BBL.-GAL.
TOTAL VOLUME: BBL.-GAL.

HYDRAULIC HORSEPOWER

ORDERED AVAILABLE USED

AVERAGE RATES IN BPM

TREATING DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET REASON

REMARKS

SEE JOB LOG

A.M.R. 1500, TUBE 1-1285 JOB DONE 1-18 DATE 7/29/94

HALLIBURTON

DATE 7/29/94

JOB LOG FORM 2013 R-4

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO
A.N.R. Prod	1-9B5	TWE	112	598918

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	11:45							ON LOCATION & SET UP
	12:15							SAFETY MTG.
	13:00	0	0			0		START SOURCE WATER (ANNULUS)
	13:01	3	3			1200		PRESSURE & RATE
	13:11	3	30			1200		SHUT DOWN
	13:11	—	0			200		START DOWN TUBING
	13:15	3	12			350		SHUT DOWN
	13:15	3	0			200		START DOWN ANNULUS
	13:22	3	22			1200		SHUT DOWN
	13:30	3	0			400		START FRESH WATER AHEAD
	13:32	3	10			400		END FRESH WATER
	13:32	3	0			400		START CACL2 10%
	13:34	3	10			450		END CACL2 10%
	13:34	3	0			450		START SPACER WATER
	13:35	3	5			450		END WATER SPACER
	13:35	3	0			450		START FLOCHEK
	13:38	3	10			450		END FLOCHEK
	13:38	3	0			450		START FRESH WATER SPACER
	13:39	3	5			500		END SPACER
	13:39	3	0			500		START CEMENT @ 13.5#
	13:48	5	27.1			500		END CEMENT
	13:48	5	0			500		START DISPLACEMENT FRESH
	13:50	3	10			580		END FRESH WATER DISP.
	13:50	3	0			580		START SOURCE WATER DISP.
	13:54	3	26.6			700		END DISPLACEMENT
	13:54	—	—			—		SHUT DOWN
								P.O.O.H
								TUBING PULLING DRY
								PULL TBG ALL OUT OF HOLE.
	14:06							END JOB
								RELEASED FROM JOB
								THANK YOU FROM HALCO
								CREW. JEFF, JEFF & DON

HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: ANR Production

ADDRESS

CITY, STATE, ZIP CODE

TICKET No. 599081 -

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY/OFFSHORE LOCATION	DATE	OWNER
1. 55685	1-9 B5	TWE	Duchesne	Utah		9-2-94	SAME

2.	TICKET TYPE: ☑ SERVICE ☐ SALES	NITROGEN JOB? ☐ YES ☑ NO	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.
				Western #29	TRK	Location	

3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION
	01	02	075		N Duchesne

4. REFERRAL LOCATION	INVOICE INSTRUCTIONS
	Provide Men Equipment & Materials to Squeeze Perf As Instructed

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
000-117					MILEAGE Pump Truck	1	EA	75	mi	2 75	24
004-014					Pump Charge	6	HR	4060	FT		3120
					Discount						(43

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CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X Greg Todd

DATE SIGNED | TIME SIGNED ☐ A.M. ☐ P.M.

☐ do ☐ do not require IPC (Instrument Protection). ☐ Not offered

SUB SURFACE SAFETY VALVE WAS: ☐ PULLED & RETURN ☐ PULLED ☐ RUN

TYPE LOCK	DEPTH
BEAN SIZE	SPACERS
TYPE OF EQUALIZING SUB.	CASING PRESSURE
TUBING SIZE	TUBING PRESSURE / WELL DEPTH
TREE CONNECTION	TYPE VALVE

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	3326
FROM CONTINUATION PAGE(S)	11,013
30% TOTAL	14,339
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	10,037

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	X Greg Todd	Lovel Young	002849	

HALLIBURTON

HBURTON ENERGY SERVICES

TI CONTINUAT

ORIGINAL 4/10

TICKET No.

CUSTOMER F. Prod. | WELL TWE 1-9B5 | DATE 8-2-94 | PAGE

FORM 1

P REFE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	IT
50106	890-50817				CALCIUM CHLORIDE	9	SK			11.55	1
15896					FLOW C. A	1	EA	8440	GAL	3.25	22
43											
5050	516.00261				PremiumPlus Cmt	300	SK			10.39	1
5027	516.00770				Cmt Semixed 12	341	SK			29.50	13
5006	890.50812				CALCIUM CHLORIDE %	6	SK			4.56	1
5010	890.50071				Flocelmixed 1/4#	75	LB			1.70	1
5071	516.00337				Gilson Mixed 12.5K	375	LB			.40	1
5001					SERVICE CHARGE	CUBIC FEET	437			1.35	1
5806					MILEAGE CHARGE TKT 3160 LOADED 7	TON MILES	1344.75			.75	1

CONTINUATION TOTAL 21

HALLIBURTON SERVICES

SUMMARY

HALLIBURTON LOCATION VERNAL

BILLED ON TICKET NO. 350541

WELL DATA

FIELD N. DUCHESNE SEC. TWP. RNG. COUNTY DUCHESNE STATE UTAH

FORMATION NAME TYPE

FORMATION THICKNESS FROM TO

INITIAL PROD: OIL BPD. WATER BPD. GAS MCFD

PRESENT PROD: OIL BPD. WATER BPD. GAS MCFD

COMPLETION DATE MUD TYPE MUD WT.

PACKER TYPE SET AT

BOTTOM HOLE TEMP. PRESSURE

MISC. DATA TOTAL DEPTH

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	23	7	0	700	
LINER						
TUBING	U	6.5	2 7/8	0	5615	
OPEN HOLE						SHOTS/FT.
PERFORATIONS				6060		4
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-2-94	DATE 8-2-94	DATE 8-2-94	DATE 8-2-94
TIME 0400	TIME 0700	TIME 0830	TIME 1130

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
R RASSMUSSEN	PICKUP	VERNAL
L. YOUNG	"	"
K. PETERSON	RCM 75616	"
D. HAKEY	BULK	"

MATERIALS

TREAT. FLUID DENSITY LB/GAL. API

DISPL. FLUID DENSITY LB/GAL. API

PROP. TYPE SIZE LB.

PROP. TYPE SIZE LB.

ACID TYPE GAL. %

ACID TYPE GAL. %

ACID TYPE GAL. %

SURFACTANT TYPE GAL. IN

NE AGENT TYPE GAL. IN

FLUID LOSS ADD. TYPE GAL.-LB. IN

GELLING AGENT TYPE GAL.-LB. IN

FRIC. RED. AGENT TYPE GAL.-LB. IN

BREAKER TYPE GAL.-LB. IN

BLOCKING AGENT TYPE GAL.-LB.

PERFPAC BALLS TYPE QTY.

OTHER

OTHER

DEPARTMENT CEMENT

DESCRIPTION OF JOB SQUEEZE

JOB DONE THRU: TUBING ☒ CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X Greg Todd

HALLIBURTON OPERATOR Jerry Yurney

COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	300	PREMIUM	"H"	B	12-2 THIXOTROPIC 12.5 PPS GILSONITE 1/4 #/SK FLOCELE	1.77	13.5

PRESSURES IN PSI

CIRCULATING DISPLACEMENT

BREAKDOWN MAXIMUM

AVERAGE FRACTURE GRADIENT

SHUT-IN: INSTANT 5-MIN. 15-MIN.

HYDRAULIC HORSEPOWER

ORDERED AVAILABLE USED

AVERAGE RATES IN BPM

TREATING DISPL. OVERALL

CEMENT LEFT IN PIPE

FEET REASON

SUMMARY

PRESLUSH: BBL.-GAL. TYPE

LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.

TREATMENT: BBL.-GAL. DISPL: BBL.-GAL.

CEMENT SLURRY: BBL.-GAL.

TOTAL VOLUME: BBL.-GAL.

VOLUMES

REMARKS

See Job Log

ANR Prod. Lease Twp. Well No. 1-2 BS Job Type Squeeze Date 8-2-94

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO
ANR PRODUCTION	1-9 B5	TWE	SQUEEZE	

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0700							ON LOCATION
	0830	4	0					FILL CASING PKR @ 5815 29#
	0840	0	2.5				2000	TEST CASING GOOD
	0900	4	0			300		START FRESH INJ RATE PERFS @ 6060
	0904	4	10			1000		END FRESH
	0904	4	0			1000		START ~~FLOCHEK~~ CALCIUM CHLORIDE
	0907	4	20			1000		END ~~FLOCHEK~~ CALCIUM CHLORIDE
	0909	4	0			1000		START FRESH
	0910	4	5			1000		END FRESH
	0910	4	0			1000		START FLOWCHEK
	0915	4	20			1000		END FLOCHEK
	0915	4	0			1000		START CEMENT 1.77 CU/FT 13.5 #
	0920	4.3	18			800		FLOCHEK @ PERFS
	0928	4.3	43			1200		CEMENT @ PERFS
	0937	4	94.5			1400		END CEMENT
	0937	4	0			1400		START DISP.
	0945	4	35			2100		CEMENT CLEAR PKR
	0946	.25	36			1100		SLOW RATE
	0957	0	39			2000		SHUT DOWN
	1000	.25	39			1600		PUMP
	1001	0	39.3			2000		SHUT DOWN HOLDING
	1010							RELEASE PSI SLOW BROKE SQUEEZE
								PUMP BACK UP
	1015	0	40			2000		HOLD 1000
	1105							RELEASE PSI
	1110	3	0				500	START REVERSE
	1140	0	80			0	0	END REVERSE
								END JOB
								THANKS
								Jerry

09/15/94 TICKET SUMMARY FINQ02

TICKET HAS BEEN COMPLETED

CUST: 000094 A N R PRODUCTION CO.
P.O. BOX 749
DENVER, CO 80201

FILE-NO: 74379

CUSTOM INV REQ NO:
CUSTOM INVOICE NO:

TICKET NO: 598941 PSL: VERNAL, UT. COMPANY: HALLIBURTON
JOB DATE: 08-03-1994 JOB PURPOSE: 205 RECEMENT
ENTRY DATE: 08-04-1994 ENTRY-LOC: VERNAL, UT.
PRINT DATE: 08-04-1994 PRINT-LOC: VERNAL, UT.
COMPLETE DATE: 08-04-1994 CURRENT PROCESS: COMPLETED
TRANS TYPE: SERVICE
REFERRAL-LOC:

WELL-LEASE: TWE 1-9B5
LOCATION CLASS: LAND
LOCATION: COUNTY: DUCHESNE
STATE: UTAH

TICKET AMOUNTS		
$	10,150.92	: SUB TOTAL
$	0.00	: ROYALTIES
$	3,045.26-	: DISCOUNTS
$	0.00	: JOB ADJ
$	293.83	: TAXES
$	0.00	: PRICE ADJ

$7,105.66 :BID $ 7,399.49 : TICKET TTL

TICKET NO: > 598941 < PRESS: PA1 = CONTINUE; PF3 = LI DISP; PF7 = ROYALTY INQ
LINE-ITEM NO: > 1 < ENTER = NEW TKT SUM; PF6 = LI TAX/PR ADJ DISP

09/15/94
TICKET NO: 598941
PSL: VERNAL, UT.
JOB DATE: 08/03/1994

CUSTOMER: 000094 A N R PRODUCTION CO.
JOB PURPOSE: RECEMENT
WELL-LEASE-NO: TWE 1-9B5

TICKET IS COMPLETED

ITEM	PRICE REF	ACCT		QTY	U/M		PRICE ($)	AMOUNT ($)
0001	000-117		MILEAGE CEMENTING ROUND TRI				2.75	206.25
		WESTERN		75	MI			61.87- DS
	08-03			1	UNT			144.38 TTL
0002	009-019		PLUGGING BK SPOT CEMENT		OR		2,800.00	2,800.00
		WESTERN		5500	FT			840.00- DS
	08-03			1	UNT			1,960.00 TTL
0003	504-275		CEMENT HIFILL		OV		22.27	4,899.40
		VERNAL		220	SK	BK	18.17	1,469.82- DS
	08-03							3,429.58 TTL

TICKET NO: > 598941 < PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB ADJ PF7 = ROY
LINE-ITEM NO: > 1 < ENTER = LI PF2 = TKT PF6 = TAX/PA PF8 = COMP PF9 =COMMIS

09/15/94 LINE ITEM DISPLAY

TICKET NO: 598941 CUSTOMER: 000094 A N R PRODUCTION CO.

PSL: VERNAL, UT. JOB PURPOSE: RECEMENT

JOB DATE: 08/03/1994 WELL-LEASE-NO: TWE 1-9B5

TICKET IS COMPLETED PAGE 2

ITEM	PRICE REF	ACCT		QTY	U/M	PRICE ($)	AMOUNT ($)
0004	504-043		CEMENT - PREMIUM			10.39	519.50
		VERNAL		50	SK		155.85- DS
	08-03						363.65 TTL
0005	509-406		ANHYDROUS CALCIUM CHLORIDE			44.55	44.55
		VERNAL		1	SK		13.36- DS
	08-03						31.19 TTL
0006	500-207		BULK SERVICE CHARGE			1.35	545.40
		WESTERN		404	CFT		163.62- DS
	08-03						381.78 TTL

TICKET NO: > 598941 < PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB ADJ PF7 = ROY

LINE-ITEM NO: > 1 < ENTER = LI PF2 = TKT PF6 = TAX/PA PF8 = COMP PF9 =COMMIS

LINE ITEM DISPLAY

09/15/94
TICKET NO: 598941
PSL: VERNAL, UT.
JOB DATE: 08/03/1994

CUSTOMER: 000094 A N R PRODUCTION CO.
JOB PURPOSE: RECEMENT
WELL-LEASE-NO: TWE 1-9B5

TICKET IS COMPLETED

LAST PAGE 3

ITEM	PRICE REF	ACCT		QTY	U/M	PRICE ($)	AMOUNT ($)
0007	500-306		MILEAGE CMTG MAT DEL OR RET			0.95	1,135.82
		WESTERN		1195.6	TMI		340.74- DS
							795.08 TTL
		08-03					

********** END OF LINE ITEMS **********

TICKET NO: 598941 PRESS: PA1 = CONT PF4 = PRO PF5 = DISC/JOB AMT PF7 = ROY
ENTER ITEM NO. PF8 = TAX/PA PER PF9 = COMP PF9 =COMMI

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL ☐ DEEPEN ☒ Reentry PLUG BACK ☐

b. Type of Well: Oil Well ☐ Gas Well ☐ Other SWD Single Zone ☐ Multiple Zone ☒

2. Name of Operator: ANR Production Company

3. Address of Operator: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 2334' FNL & 1201' FEL (SE/NE)
At proposed prod. zone: Same

5. Lease Designation and Serial No.: Patented

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name:

8. Farm or Lease Name: Tew

9. Well No.: #1-9B5

10. Field and Pool, or Wildcat: Altamont

11. QQ, Sec., T., R., or Blk. and Survey or Area: Section 9-T2S-R5W

14. Distance in miles and direction from nearest town or post office*: Well located 11 miles WSW of Altamont, UT.

12. County or Parrish: Duchesne 13. State: UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1201' FEL

16. No. of acres in lease: 480

17. No. of acres assigned to this well: 480

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: N/A

19. Proposed depth: 9560'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 7047' GL, 7073' KB

22. Approx. date work will start*

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17½"	13-3/8"	68#	351'	700 sx
12¼"	9-5/8"	40#	5841'	1300 sx
8-3/4"	7"	29#	11,999'	400 sx

Propose to re-enter the previously P&A'd Tew #1-9B5 (Operator ANR) and convert to SWD well. The well will be cleaned out to 9560' and the Uinta perf'd @ 3700'-5800' and Upper Green River (TGR1) perf'd @ 5900'-6400'. The well will be converted to injection to allow disposal of Wasatch/Lower Green River produced water from the Altamont/Bluebell Field. The EPA has granted approval for injection on June 3, 1994 (Permit #UT2722-03788).

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: Marc D. Ernest/mb Title: Marc D. Ernest Production Superintendent Date: 6/14/94

(This space for Federal or State office use)

API No. _____ Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

(3/89) *See Instructions On Reverse Side

EXHIBIT "M"

SWD WELL CONVERSION

TEW #1-9B5

ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

JULY 23, 1993

WELL DATA

Location:	2334' FNL & 1201' FEL (SE/NE) Section 9, T2S-R5W
API No.:	43-013-30121
WI:	75.0% ANR
Elevation:	7047' GL, 7073' KB
TD:	15,337'
Spud Date:	4/15/72
Completion Date:	10/7/72
P&A Date:	1/18/90
Casing:	13⅜" 68# K-55 ST&C @ 351', cmt'd w/550 sxs (top w/150 sx).
	9⅝" 40# K-55/N-80 S/LT&C @ 5841', cmt'd w/700 sxs (top out w/300 sx, 2nd top out w/300 sx, circ cmt). Note: Squeezed hole in 9⅝" csg @ 1565' due to csg wear from hole deviation w/1200 sx (4 stages). Tested squeeze to 1000 psi, held.
	7" 29# S-95/P-110 LT&C @ 11,999', cmt'd w/400 sx (TOC @ 9961' - CBL). (Note: Squeezed 7" csg leak @ 6004-35' w/300 sx Hi-Fill & 200 sx neat - 7" x 9⅝" circ. Tested to 2000#, pumped in @ 2.7 BPM, 1800#. Re-squeezed w/200 sx. Tested to 2000#, pumped in @ 1.5 BPM, 1850#. Re-squeezed w/150 sx to 3000#.
	5" 18# N-80/SOO-95 SFJP Liner @ 11,716'-15,270', cmt'd w/701 sx (TOC @ liner top).

CASING DATA:

Description	Interval	ID	Drift	Capacity (B/F)	Burst (psi)	Collapse (psi)
7" 29# P-110 LT&C	0-2461'	6.184"	6.059"	.0371	11220	8510
7" 29# S-95 LT&C	2461-11999'	6.184"	6.059"	.0371	9690	9200
5" 18# N-80 SFJP	11716-13878'	4.276"	4.151"	.0177	10140	10490
5" 18# SOO-95 SFJP	13878-15270'	4.276"	4.151"	.0177	12040	12010

Present Status: Well P&A'd 1/18/90.

RECOMMENDED PROCEDURE

1. MIRU workover rig. (Note: Give State of Utah 24-hour notice prior to moving in.)

2. Dig out cellar. Weld on 7" 26-29# S-95 landing joint & horse collar to 9⅝" csg. Install 7" 5000# csg head flange. NU 6" 5000# WP BOP's (7-1/16" bore).

SWD CONVERSION PROCEDURE
TEW #1-9B5
PAGE 2

3) RIH w/6" drag bit. Drill out surface plug @ surface to 200'. Pressure test 7" csg above 5500' to 2000#. Drill out cmt plug @ 5500-5940' (440'). RIH & CO 7" csg to PBTD @ 9560'. Pressure test 7" csg to 2000#. If 7" csg leaks, consider Casing Inspection Log and squeeze as needed. POH w/bit.

4) Run a GR/CBL log from 9560' to surface w/2000# to determine cmt coverage.

5) From the CBL log, perf 7" csg & set a cmt retainer to isolate the proposed Upper Green River perfs @ ±5900-6400'. Squeeze w/necessary cement as required.

6) Perf & set a cmt retainer to isolate the proposed Uinta perfs @ ±3700-5800'. Squeeze with necessary cement as required. WOC.

7) PU 6" mill & drill out squeezes. Pressure test each to 2000# after drillout. Circulate & condition hole. POH.

8) Run a GR/CBL log across proposed zones of interest w/2000#. Re-squeeze as necessary.

9) Run a SDT/CNL/GR Digital Sonic log from 8000' to surface to determine proposed injection zones in well. (Note: No open hole logs were run above 5841' due to hole problems.)

10) RU wireline w/lubricator. Perforate the proposed Uinta selectively @ ±3700-5800' and the Upper Green River (TGR1) @ ±5900-6400' @ 4 SPF w/4" csg gun. Correlate to the SDT Sonic log.

11) RIH w/Mtn States retrievable pkr & bridge plug on 2⅞" tbg. Isolate perforated intervals @ 3700-5800' and 5900-6400' and swab test separately for analysis of formation water as required by the State of Utah and BLM.

12) Set pkr above all zones @ ±3500'. Acidize Uinta & Upper Green River zones w/16,000 gal 15% HCl + rock salt & BAF (diverter) in 4 stages.

Note: A) All acid to contain inhibitor, friction reducer, iron sequestering agent and surfactant.
B) Pump at max possible rate (12-15 BPM), not to exceed 5000 psi.
C) Hold 2000 psi on csg during job.

13) POH w/pkr & RBP.

14) PU 3½" "F" nipple (PC), 4' - 3½" pup jt (PC), Mtn States Lok-set pkr (PC) w/on-off tool and 3½" 9.3# J-55 8rd tbg (internal coated w/Duoline-20 fiberglass & Threadmaster MMS couplings, Burst 6980 psi, Collapse 7400 psi, Tension 142,000#, max temp 300°F). Pressure test tbg to 5000 psi. Circ treated, non-corrosive production water for pkr fluid. Set pkr @ ±200' above uppermost perf w/18-20,000# tension. Test annulus to 2000 psi.

15) Land tbg. ND BOP, NU injection WH. RDMO rig.

SWD CONVERSION PROCEDURE
TEW #1-9B5
PAGE 3

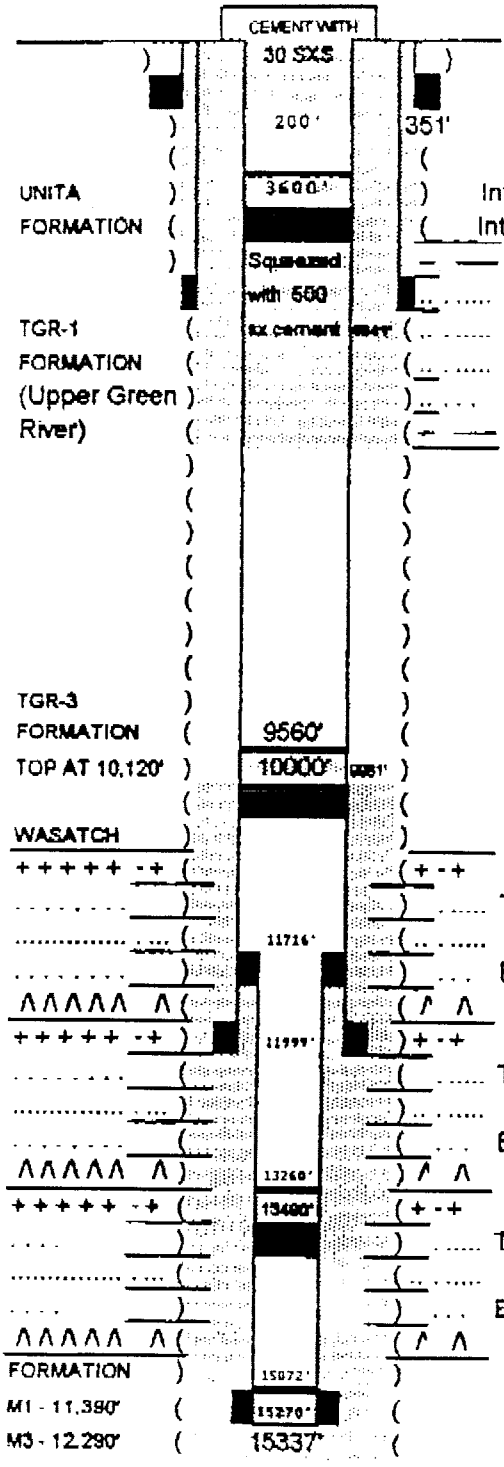
16) Establish step-rate injectivity test into the Uinta & Upper Green River injection intervals to determine maximum allowable injection pressure.

17) Hook up injection pump & lines. Install SWD battery.

18) Obtain SWD permit.

19) Place well on saltwater injection.

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER PLUGGING AND ABANDOMENT
(NOT TO SCALE)



Company: COASTAL OIL & GAS CORP.
Lease Name: TEW
Lease Number: 1-9B5
Location: SE NE SEC. 9, T2S - R5W
County: DUCHESNE, UTAH
Date: 10/12/93
ELEVATION G.L.: 7047'
ELEVATION K.B.: 7073'

Surface Casing: 13 3/8" 68# K-55 Cmt with 700 sxs
Surface Pipe Shoe Depth: 351'
Surface Pipe Cement Top: Surface
Hole Size: 17 1/2"
NOTE: 9 5/8" SQUEEZED AT 1565' WITH 1200 SXS. TESTED TO 1000 PSI.
Intermidiate Casing: 9 5/8" 40# K-55/N-80 Cmt with 1300 sxs
Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'
Retainer: 3600' with 10 sx cement on top

NOTE: SQUEEZE 7" FROM 3700' - 5800'
NOTE: 7" SQUEEZED AT 6004' - 6035 WITH 850 SXS. TESTED TO 2000 PSI.
NOTE: SQUEEZE 7" FROM 5900' - 6400'
NOTE: 7" CASING TESTED TO 2000 PSI ON 1/16/90.

Retainer: 10000' with 70 sx cement on top

Hole Size: 8 3/4"
Production Casing: 7" S-95/P-110 29# Cmt W/ 400 SX
Set at: 11999'
Top of cement: 9961'
Top of perforations: 10121'
Producing Formation: Lower Green River/Wasatch
Bottom of perforations: 11483'
Top of Liner: 11716'

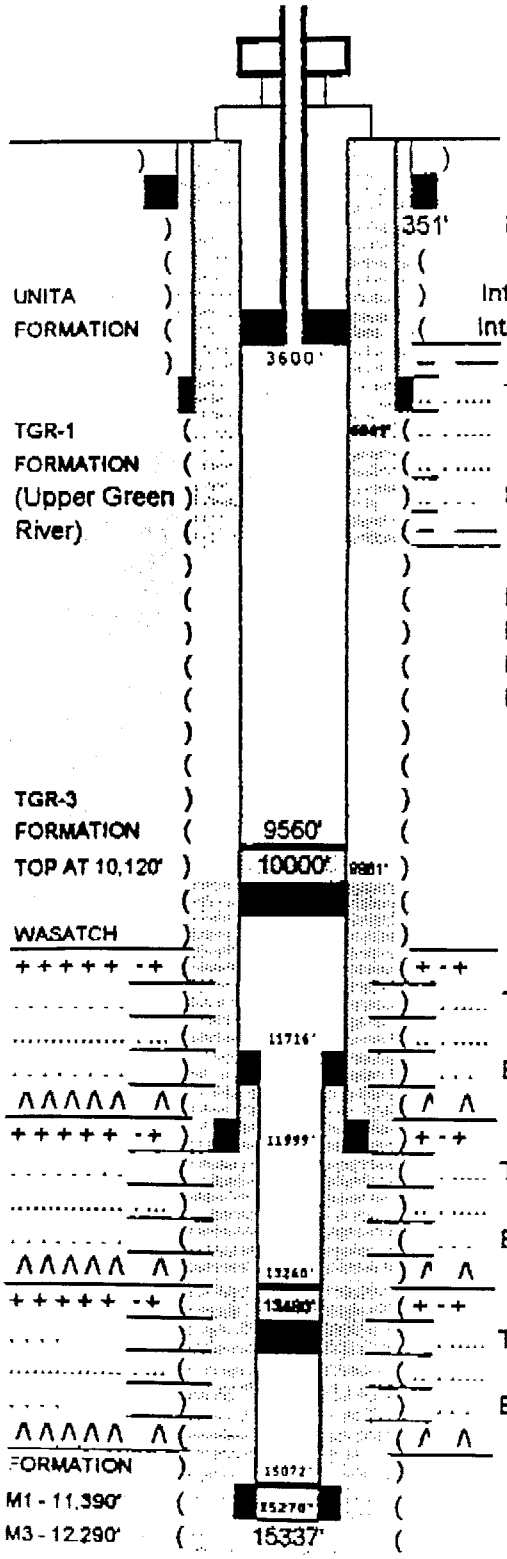
Top of perforations: 11757'

Bottom of perforations: 13245'

Bridge Plug: 13480' with 200 sx cement on top
Top of perforations: 13260'

Bottom of perforations: 15128'
Hole Size: 6 1/8"
LINER: 5" N-80/SOO-95 18# CMT W/ 701 SX
PBTD: 15072'
Total Depth: 15337'

WELLBORE DIAGRAM FOR INJECTION WELL
AFTER SETTING IT UP TO INJECT
(NOT TO SCALE)



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Intermidiate Pipe Shoe Depth: 5841'
Intermidiate Pipe Cement Top: Surface
Hole Size: 12 1/4
Top of perforations: 3700'
Injection interval: Uinta at 3700' - 5800'
Injection interval: Upper Green River (TGR 1) at 5900' - 6400'
Bottom of perforations: 6400'

NOTE: SQUEEZE 7" FROM 3700' - 5800'
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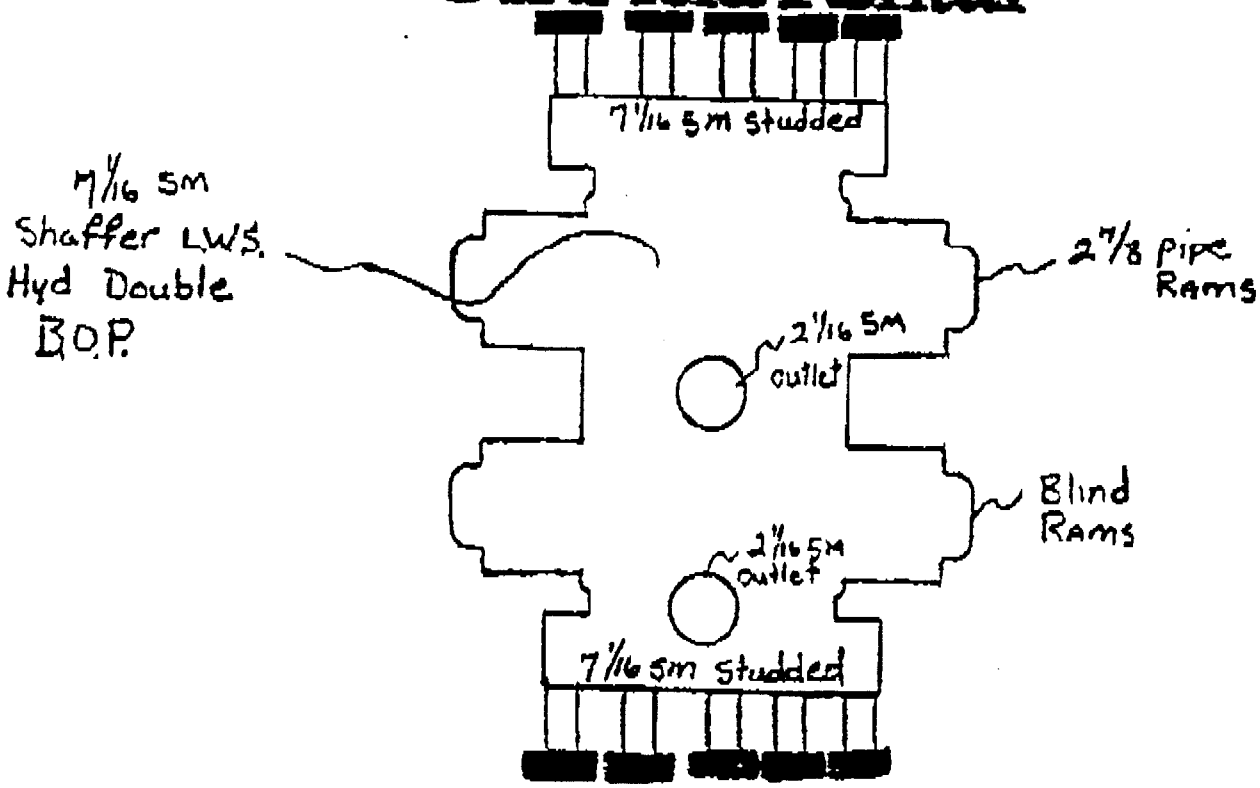
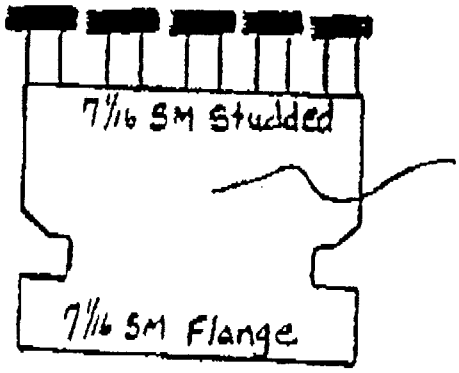


Optional Equipment



2 1/16 5M Camron Type F Manuel gate valves

to come off outlet

Coastal
The Energy People

SEP 26 1994

September 22, 1994

Water Quality Division
U.S. Environmental Protection Agency, Region VIII
999 - 18th Street, Suite 500
Mail Code 8WM-DW
Denver, Colorado 80202-2466

Attention: Gustav Stolz

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 W. North Temple
Salt Lake City, Utah 84180-1203

Attention: Frank Matthews

Re: Tew #1-9B5 SWD
Injection Permit UT2722-03788
Altamont Field
Duchesne County, Utah

Gentlemen:

Enclosed is a set of CBL/GR logs ran on July 28th, August 5th, and August 17, 1994, for the subject well.

If there are any questions, please let me know (303) 573-4454.

Sincerely,

Marc D Ernest

Marc D. Ernest
Production Superintendent

MDE:tmr

xc: File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: ANR PRODUCTION CO., INC COMPANY REP: JIM FOREMAN

WELL NAME: TEW 1-9B5 API NO: 43-013-30121

SECTION: 9 TWP: 02S RANGE: 05W

CONTRACTOR: WESTERN OIL WELL SERVICE RIG NUMBER: #29

INSPECTOR: DENNIS INGRAM TIME: 1:30 PM AM/PM DATE: 10/6/94

OPERATIONS AT THE TIME OF INSPECTION: SWAB TESTING GREEN RIVER PERFS

==========

WELL SIGN: N TYPE OF WELL: WIW STATUS PRIOR TO WORKOVER: P&A

H2S: N ENVIRONMENTAL: Y PIT: Y BOPE: Y

DISPOSITION OF FLUIDS USED: FRACK MASTER AND TRUCK

PERFORATED: Y STIMULATED: SAND CONTROL:

WATER SHUT OFF: WELLBORE CLEANOUT: WELL DEEPENED:

CASING OR LINER REPAIR: ENHANCED RECOVERY: THIEF ZONE:

CHANGE OF LIFT SYSTEM: Y TUBING CHANGE: OTHER CEMENT SQUEEZE: Y

==========

REMARKS:

CONVERSION OF P&A WELL TO INJECTOR. OPERATOR STARTED SWABBING GREEN RIVER PERFS (5900 TO 6300) YESTERDAY AROUND 3:00 PM, AND HAS RECOVERED 156 BARRELS OF WATER. SAMPLES WERE TAKEN FOR UIC. OPERATOR PLANS TO MOVE PACKER UP THE HOLE TO SWAB TEST UINTA FORMATION -- PERFS ARE AT 4206.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
WORKOVER AND COMPLETION FORM

COMPANY: ANR PRODUCTION CO., INC COMPANY REP: JIM FOREMAN

WELL NAME: TEW 1-9B5 API NO: 43-013-30121

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H2S: N ENVIRONMENTAL: Y PIT: Y BOPE: Y

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PERFORATED: Y STIMULATED: SAND CONTROL:

WATER SHUT OFF: WELLBORE CLEANOUT: WELL DEEPENED:

CASING OR LINER REPAIR: ENHANCED RECOVERY: THIEF ZONE:

CHANGE OF LIFT SYSTEM: Y TUBING CHANGE: OTHER CEMENT SQUEEZE: Y

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Coastal
The Energy People

OCT 26

October 24, 1994

Water Quality Division
U.S. Environmental Protection Agency, Region VIII
999 - 18th Street, Suite 500
Mail Code 8WM-DW
Denver, Colorado 80202-2466

Attention: Gustav Stolz

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 W. North Temple
Salt Lake City, Utah 84180-1203

Attention: Frank Matthews

Re: Tew #1-9B5 SWD
Injection Permit UT2722-03788
Altamont Field
Duchesne County, Utah
25 5W 9 DRL
43 013 30121

Gentlemen:

Enclosed is a final print of the ***Water Flow Log*** ran on October 19, 1994, for the subject well.

If there are any questions, please let me know (303) 573-4454.

Sincerely,

Marc D. Ernest
Production Superintendent

MDE:tmr

xc: File

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: Patented

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: N/A

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: N/A

1. Type of Well: OIL ☐ GAS ☐ OTHER: SWD

8. Well Name and Number: Tew #1-9B5

2. Name of Operator: ANR Production Company

9. API Well Number: 43-013-30121

3. Address and Telephone Number: P.O. Box 749 Denver, CO 80201-0749 (303) 573-4454

10. Field and Pool, or Wildcat: Altamont

4. Location of Well

Footages: 2334' FNL & 1201' FEL

County: Duchesne

QQ, Sec., T., R., M.: SE/NE Section 9, T2S-R5W

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit In Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
☐ Abandon	☐ New Construction	☐ Abandon *	☐ New Construction
☐ Repair Casing	☐ Pull or Alter Casing	☐ Repair Casing	☐ Pull or Alter Casing
☐ Change of Plans	☐ Recompletion	☐ Change of Plans	☐ Perforate
☐ Convert to Injection	☐ Perforate	☒ Convert to Injection	☐ Vent or Flare
☐ Fracture Treat or Acidize	☐ Vent or Flare	☐ Fracture Treat or Acidize	☐ Water Shut-Off
☐ Multiple Completion	☐ Water Shut-Off	☐ Other	
☐ Other			

Approximate date work will start

Date of work completion 10/26/94

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Re-entered the previously P&A'd Tew #1-9B5 well on 7/19/94 for conversion to SWD. Well was cleaned out to 9683' and the Uinta perf'd @ 4206'-5822' and Upper Green River (TGR1) perf'd @ 5948'-5952'. The well was converted to injection on 10/26/94 to allow for disposal of Wasatch/Lower Green River produced water from the Altamont/Bluebell Field. Conversion is under EPA permit #UT2722-03788. See attached chronological history for details. Operations are presently underway to hookup injection facilities.

RECEIVED
JAN 11 1995
DIV OF OIL, GAS & MINING

13.

Name & Signature: Marc D. Ernest

Marc D. Ernest
Title: Production Superintendent

Date: 01/10/95

(This space for State use only)

(5/94)

(See Instructions on Reverse Side)

Coastal
The Energy People

January 10, 1995

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 W. North Temple
Salt Lake City, Utah 84180-1203

Attention: Mr. Don Jarvis

RE: Tew #1-9B5 SWD
EPA Injection Permit #UT2722-03788
Altamont Field
Duchesne County, Utah

Gentlemen:

Please find enclosed a ***Sundry Notice*** for the conversion of the Tew #1-9B5 to saltwater disposal. Operations commenced on July 19, 1994, and were completed on October 26, 1994. Injection facilities are presently being installed and should be in operation within the week. Also attached is a chronological history of the work and other support data submitted to the EPA. Also, there are copies of the data previously faxed to you covering CBL data, water analysis and water flow log.

Please review the data and if you have any questions, let us know (303) 573-4454.

Sincerely,

Marc D. Ernest

MDE:tmr

Marc D. Ernest
Production Superintendent

Enclosure

xc: R. Bartley/T. Young/S. Prutch/V. Guinn/T. Hewett/File
W. G. McGaughey - Altamont, UT
T. F. Sciba/Bob Dale
J. R. Nelsen

ANR Production Company
A SUBSIDIARY OF THE COASTAL CORPORATION
600 17TH ST • STE 800 S • P O BOX 749 • DENVER CO 80201-0749 • 303 572-1121

Coastal
The Energy People

September 22, 1994

Water Quality Division
U.S. Environmental Protection Agency, Region VIII
999 - 18th Street, Suite 500
Mail Code 8WM-DW
Denver, Colorado 80202-2466

Attention: Gustav Stolz

State of Utah
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 W. North Temple
Salt Lake City, Utah 84180-1203

Attention: Frank Matthews

Re: Tew #1-9B5 SWD
Injection Permit UT2722-03788
Altamont Field
Duchesne County, Utah

Gentlemen:

Enclosed is a set of CBL/GR logs ran on July 28th, August 5th, and August 17, 1994, for the subject well.

If there are any questions, please let me know (303) 573-4454.

Sincerely,

Marc D Ernest

Marc D. Ernest
Production Superintendent

MDE:tmr

xc: File

Schlumberger | Wireline & Testing

Schlumberger Well Services
6090 Greenwood Plaza Blvd
Englewood Colorado 80111
(303) 843-9090

26 September 1994

To: Marc Ernest
From: Garry Williams
Subject: CBL Evaluation - Duncan Tew #1-9B5 Duchesne UT

Comments regarding types of cement bond logs are as follows;
Since the well has more than one pipe string, it is important to realize that the lower frequency CBL is the best choice to look for evidence of formation signal on the VDL trace. The CBL however has difficulty evaluating the presence or absence of a low compressive strength cement. The bond log of choice for light weight (low compresive strength) cements is the ultra sonic Cement Evaluation Tool (CET) or the Ultra Sonic Imaging Tool (USIT). However, due to their higher frequency they do not see beyond the cement sheath behind the first pipe string.
A combination of both CBL & the CET or USIT would allow me to better evaluate cement behind the first string but it is also important to know what the hydraulic isolation is behind the second pipe string.
The objective is to provide hydraulic isolation between zones. To attempt to squeeze several zones without knowing whether isolation presently exists or not can be cost prohibitive.
Since a tool does exist (WFL - Water Flow Log) that measures water flow behind pipe, it may be advisable to consider, as an alternate, to convert the well to injection and monitor for fluid movement at specified time intervals at a later date.
If flow is outside the specified zone, then a squeeze to provide hydraulic isolation could be targeted at the correct depth(s).
Many times in older wells the sloughing of the formation against the pipe over long intervals will provide a hydraulic seal.
Evidence of this is the inability to establish circulation as was apparent several times during the attempted squeeze operations.
Eccentralized casing strings are prone to channeling that is hard to squeeze at the azimuth adjacent to where the strings are touching each other or the open hole wellbore.

Specific comments regarding the existing CBL logs are as follows;
<u>CBL of 7-28-94</u>
9630' to 8720' - Little to no formation signal indicating essentially no hydraulic isolation.
8720' to 7340' - Some evidence of cement due to formation arrivals on the VDL signature. This is indicative of part of the casing circumference having cement and part of the circumference having no cement. Typical for non centralized casings.

7340' to 6335' - Little to no formation signal indicating essentially no hydraulic isolation.
6335' to 6054' - Some evidence of cement due to formation arrivals on the VDL signature. This is indicative of part of the casing circumference having cement and part of the circumference having no cement. Typical for non centralized casings.
6054' to 6046' - Good bond, good hydraulic isolation.
6046' to 6016' - Fair bond, fair hydraulic isolation.
6016' to 5978' - Good bond, good hydraulic isolation.
5978' to 5888' - Partial bonding, suspect eccentered casing.
5888' to 5826' - Good bond, good hydraulic isolation.
5826' to 5810' - Partial bonding, suspect eccentered casing.
5810' to 5724' - Good bond, good hydraulic isolation.
5724' to 5090' - Partial bonding, suspect eccentered casing.
5090' to 0030' - Mostly free pipe, some intervals showing formation signal on the VDL signature indicating low compressive strength cement &/or eccentered casings. Formation signal evident throughout most of the interval.
<u>CBL of 8-5-94</u>
4930' to 2930' - Amplitude indicates some filling of the suspected channeling due to eccentered casing.
2930' to 2300' - Minor changes in amplitude would indicate minor changes of the hydraulic isolation. Low compressive strength cement has minor affect on amplitude response.
2300' to 0024' - No significant change in hydraulic isolation.
<u>CBL of 8-17-94</u>
6550' to 6402' - See evidence of squeeze at 6400'.
6402' to 6396' - See stronger evidence of squeeze at 6400'.
6396' to 6173' - Minor evidence of squeeze.
6173' to 6163' - More significant evidence of squeeze. Improved hydraulic isolation.
6163' to 6132' - Minor evidence of squeeze.
6132' to 5996' - Improved bond/hydraulic isolatio from the CBL of 7-28-94.
5996' to 5886' - Minor evidence of squeeze.
5886' to 5798' - Same good bonding/hydraulic isolation as in the CBL of 7-28-94. No apparent change.
5798' to 5724' - Minor loss of bonding from CBL of 7-28-94.
5724' to 5672' - No change from CBL of 7-28-94.
5672' to 5666' - Slight bond improvement at the squeeze perfs @ 5620'.
5666' to 5066' - Minimal to no change from CBL of 7-28-94.
5066' to 4936' - Good bond/hydraulic isolation as a result of the squeeze @ 5060'.
4936' to 0400' - Small intervals showing evidence of minor changes in bonding. Suspect minor channeling due to casing eccentralization. (minor evidence of squeeze @ 2925'. From 2900' to 3400' both 7" & 9 5/8" collars are visible on the VDL trace indicating poor hydraulic isolation across this interval.
0400' to 0026' - 7" appears to be free but VDL trace shows evidence of a formation signal indicating part of the circumference is cemented or is laying against the

formation. At this depth it is my opinion that cement covers a portion of the circumference.

CBL of 8-19-94

0400' to 0390' - Good bond/hydraulic isolation.

0390' to 0022' - Improved bonding/hydraulic isolation between the 7" & 9 5/8" casings.

CBL generated from the SDT waveforms of 8-19-94

Sections of good bond/good hydraulic isolation occurs at the following intervals;

6110' to 5985'

5890' to 5825'

5065' to 5000'

In summary - It is my opinion that it would be more cost effective to convert the well to an injector and approve a plan to monitor for fluid movement behind casing using the Water Flow Log (WFL) which is approved by the EPA for Class II disposal wells.

Any water flow outside of the injection interval could then be isolated via a depth specific squeeze.

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078.

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report #: 940536
Date Sampled: 10-6-94
Date Received: 10-6-94
Date Reported: 10-6-94

Report For:
cc.
cc.
cc.
Service Engineer: ED SCHWARZ

UGR perfs @ 5948-6350'

Chemical Component	1-9B5 1:00 PM	1-9B5 2:00 PM	1-9B5 3:00 PM
Chloride (mg/l)	21000	20000	19000
Sulfate (mg/l)	437	500	437
Carbonate (mg/l)	33120	32520	32640
Bicarbonate (mg/l)	35136	35526	34746
Calcium (mg/l)	200	160	160
Magnesium (mg/l)	73	73	97
Iron (mg/l)	18	17	17
Barium (mg/l)	n/d	n/d	n/d
Strontium (mg/l)	n/d	n/d	n/d
Sodium (mg/l)	52075	51189	50264
pH	9.9	9.8	9.9
Ionic Strength	2.85	2.79	2.76
Specific Gravity	1.055	1.050	1.055
SI@20C (68F)	4.44	4.22	4.30
SI@25C (77F)	4.58	4.36	4.44
SI@30C (86F)	4.65	4.43	4.51
SI@40C (104F)	4.87	4.65	4.73
SI@50C (122F)	5.12	4.90	4.98
SI@60C (140F)	5.48	5.26	5.34
SI@70C (158F)	5.76	5.54	5.62
SI@80C (176F)	6.13	5.90	5.98
SI@90C (194F)	6.55	6.32	6.40
TDS (mg/l)	142059	139985	137361
Temperature (F)			
Dissolved CO2 (ppm)	n/d	n/d	n/d
Dissolved H2S (ppm)	n/d	n/d	n/d
Dissolved O2 (ppm)	n/d	n/d	n/d

Analyst: T. Mayer

ctech\watrfor3.wk1

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

E&P OPERATIONS - DENVER DISTRICT

OCT 17 1994

TCY ____ NOS ____ MOR ____ ____
MDE ____ LPS ____ JDP ____ ____
TFS ____ BLJ ____ JRN ____ RLB ____

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report #: 940550
Date Sampled: 10-12-94
Date Received: 10-13-94
Date Reported: 10-13-94

Report For: MARK EARNEST
cc. JIM FOREMAN
cc.
cc.
Service Engineer: ED SCHWARZ

UINTAH PERFS @ 4206-5822'

Chemical Component	1-9B5 1:00 PM	1-9B5 2:00 PM	1-9B5 3:00 PM
Chloride (mg/l)	13000	14000	14000
Sulfate (mg/l)	188	219	188
Carbonate (mg/l)	4668	4776	4740
Bicarbonate (mg/l)	14103	14201	14445
Calcium (mg/l)	120	120	80
Magnesium (mg/l)	49	49	49
Iron (mg/l)	2	2	2
Barium (mg/l)	n/d	n/d	n/d
Strontium (mg/l)	n/d	n/d	n/d
Sodium (mg/l)	17180	17963	18058
pH	10.0	10.1	10.1
Ionic Strength	0.84	0.88	0.88
Specific Gravity	1.030	1.030	1.030
SI@20C (68F)	3.49	3.59	3.41
SI@25C (77F)	3.58	3.68	3.50
SI@30C (86F)	3.70	3.80	3.63
SI@40C (104F)	3.91	4.01	3.84
SI@50C (122F)	4.12	4.22	4.04
SI@60C (140F)	4.52	4.61	4.44
SI@70C (158F)	4.79	4.89	4.72
SI@80C (176F)	5.17	5.27	5.09
SI@90C (194F)	5.55	5.64	5.47
TDS (mg/l)	49310	51330	51562
Temperature (F)			
Dissolved CO2 (ppm)	0	0	0
Dissolved H2S (ppm)	n/d	n/d	n/d
Dissolved O2 (ppm)	n/d	n/d	n/d

Analyst: T. Mayer

ctech\watrfor3.wk1

Western Unichem

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY ANR PRODUCTIONS ADDRESS DATE 10-14-94

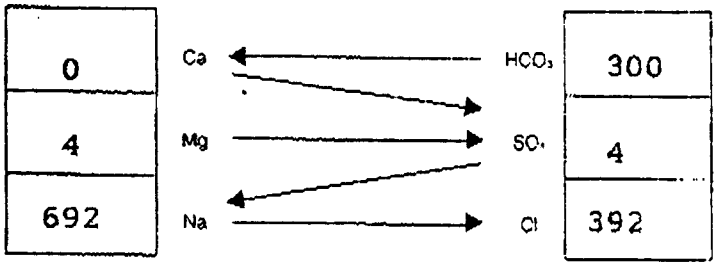
SOURCE 1-9B5 2:00PM DATE SAMPLED 10-14-94 ANALYSIS NO

	Analysis		Mg/l(ppm)		*Meq/l	
1. PH	9.7					
2. H_2S (Qualitative)	14					
3. Specific Gravity	1.022					
4. Dissolved Solids			48,357			
5. Suspended Solids						
6. Anaerobic Bacterial Count		CI C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)						
8. Bicarbonate (HCO_3)	HCO_3		18,300	÷ 61	300	HCO_3
9. Chlorides (Cl)	Cl		13,900	÷ 35.5	392	Cl
10. Sulfates (SO_4)	SO_4		180	÷ 48	4	SO_4
11. Calcium (Ca)	Ca		4	÷ 20	0	Ca
12. Magnesium (Mg)	Mg		46	÷ 12.2	4	Mg
13. Total Hardness ($CaCO_3$)			200			
14. Total Iron (Fe)			15			
15. Barium (Qualitative)						
16. Phosphate Residuals						

UINTAH @ 4206-5822

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION



Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
$Ca(HCO_3)_2$	81.04				
$CaSO_4$	68.07				
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17		4		293
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00		296		24,864
Na_2SO_4	71.03		4		283
NaCl	58.46		392		22,916

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS REsistivity = .30 ohms/meter @ 70 F

Hydrocarbon = trace (approx 25 mg/l)

Ammonia = 38 PPM

Western Unichem

P.O. Box 217
Roosevelt, Utah 84066

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Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY ANR PRODUCTIONS ADDRESS DATE 10-14-94

SOURCE 1-9B5 3:00PM DATE SAMPLED 10-14-94 ANALYSIS NO.

	Analysis		Mg/l(ppm)		*Meq/l	
1. PH	9.7					
2. H_2S (Qualitative)	.5					
3. Specific Gravity	1.023					
4. Dissolved Solids			48,910			
5. Suspended Solids						
6. Anaerobic Bacterial Count	CI	C/Ml				
7. Methyl Orange Alkalinity ($CaCO_3$)						
8. Bicarbonate (HCO_3)		HCO_3	18,500	61	303	HCO_3
9. Chlorides (Cl)		Cl	14,160	35.5	399	Cl
10. Sulfates (SO_4)		SO_4	180	48	4	SO_4
11. Calcium (Ca)		Ca	4	20	0	Ca
12. Magnesium (Mg)		Mg	168	12.2	14	Mg
13. Total Hardness ($CaCO_3$)			700			
14. Total Iron (Fe)			13			
15. Barium (Qualitative)						
16. Phosphate Residuals						

UINTAH @ 4266-5822'

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

0	Ca	←	HCO₃	303		
14	Mg	→	SO_4	4		
692	Na	→	Cl	399		

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
$Ca(HCO_3)_2$	81.04				
$CaSO_4$	68.07				
$CaCl_2$	55.50				
$Mg(HCO_3)_2$	73.17		14		1,024
$MgSO_4$	60.19				
$MgCl_2$	47.62				
$NaHCO_3$	84.00		289		24,276
Na_2SO_4	71.03		4		284
NaCl	58.46		399		23,326

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

REMARKS REsistivity = .30 ohms/meter @ 70 F

Hydrocarbon = trace (approx. 25 mg/l)

Ammonia = 50 PPM

Western Unichem
P.O. Box 217
Roosevelt, Utah 84066
Office (801) 722-5066
Fax (801) 722-5727

WATER ANALYSIS REPORT

COMPANY ANR PRODUCTIONS ADDRESS _____ DATE 10-14-94

SOURCE 1-9B5 4:00PM DATE SAMPLED 10-14-94 ANALYSIS NO. _____

	Analysis		Mg/l(ppm)	*Meq/l	
1.	PH		9.7		
2.	H_2S (Qualitative)		.5		
3.	Specific Gravity		1.025		
4.	Dissolved Solids		50,316		
5.	Suspended Solids				
6.	Anaerobic Bacterial Count		CI C/Ml		
7.	Methyl Orange Alkalinity ($CaCO_3$)				
8.	Bicarbonate (HCO_3)	HCO_3	18,300	÷61 300	HCO_3
9.	Chlorides (Cl)	Cl	15,150	÷35.5 427	Cl
10.	Sulfates (SO_4)	SO_4	180	÷48 4	SO_4
11.	Calcium (Ca)	Ca	4	÷20 0	Ca
12.	Magnesium (Mg)	Mg	143	÷12.2 12	Mg
13.	Total Hardness ($CaCO_3$)		600		
14.	Total Iron (Fe)		14		
15.	Barium (Qualitative)				
16.	Phosphate Residuals				

UINTAH @ 4206 - 5822'

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

0	Ca ←	→ HCO_3	300
12	Mg →	→ SO_4	4
719	Na →	← Cl	427

Saturation Values	Distilled Water 20°C
$CaCO_3$	13 Mg/l
$CaSO_4 \cdot 2H_2O$	2,090 Mg/l
$MgCO_3$	103 Mg/l

Compound	Equiv. Wt.	X Meq/l	= Mg/l
$Ca(HCO_3)_2$	81.04		
$CaSO_4$	68.07		
$CaCl_2$	55.50		
$Mg(HCO_3)_2$	73.17	12	878
$MgSO_4$	60.19		
$MgCl_2$	47.62		
$NaHCO_3$	84.00	288	24,192
Na_2SO_4	71.03	4	284
NaCl	58.46	427	24,962

REMARKS Resistivity = .36 ohms/meter @ 70 F

Hydrocarbon= trace approx 25 mg/ l

AMMONIA = 55 ppm

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report For: MARK EARNEST
cc. JIM FOREMAN
cc.
cc.
Service Engineer: ED SCHWARZ

Project #: 940555
Date Sampled: 10-14-94
Date Received: 10-14-94
Date Reported: 10-14-94

UINTAH @ 4200-5822'

Chemical Component	TEW 1-9B5
Chloride (mg/l)	18000
Sulfate (mg/l)	250
Carbonate (mg/l)	5796
Bicarbonate (mg/l)	18251
Calcium (mg/l)	120
Magnesium (mg/l)	49
Iron (mg/l)	2
Barium (mg/l)	n/d
Strontium (mg/l)	n/d
Sodium (mg/l)	22879
pH	9.8
Ionic Strength	1.11
Specific Gravity	1.025
SI@20C (68F)	3.36
SI@25C (77F)	3.45
SI@30C (86F)	3.58
SI@40C (104F)	3.77
SI@50C (122F)	3.99
SI@60C (140F)	4.37
SI@70C (158F)	4.67
SI@80C (176F)	5.03
SI@90C (194F)	5.42
TDS (mg/l)	65347
Temperature (F)	n/d
Dissolved CO2 (ppm)	0
Dissolved H2S (ppm)	2
Dissolved O2 (ppm)	n/d

Analyst: T Mayer

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report For: MARK EARNEST
cc. MARVIN BOZART
cc.
cc.
Service Engineer: ED SCHWARZ

Report #: 940558
Date Sampled: 10-14-94
Date Received: 10-16-94
Date Reported: 10-16-94

UINTAH CO 4206-5822'

Chemical Component	1:00 PM	2:00 PM	3:00 PM
Chloride (mg/l)	18000	18000	19000
Sulfate (mg/l)	219	250	219
Carbonate (mg/l)	5172	5112	5256
Bicarbonate (mg/l)	18886	18495	19130
Calcium (mg/l)	120	80	120
Magnesium (mg/l)	49	49	49
Iron (mg/l)	4	5	4
Barium (mg/l)	n/d	n/d	n/d
Strontium (mg/l)	n/d	n/d	n/d
Sodium (mg/l)	22626	22493	23430
pH	10.0	9.9	9.9
Ionic Strength	1.09	1.08	1.12
Specific Gravity	1.030	1.030	1.030
SI@20C (68F)	3.56	3.28	3.47
SI@25C (77F)	3.65	3.37	3.55
SI@30C (86F)	3.78	3.50	3.69
SI@40C (104F)	3.97	3.68	3.87
SI@50C (122F)	4.19	3.91	4.10
SI@60C (140F)	4.57	4.29	4.47
SI@70C (158F)	4.87	4.58	4.77
SI@80C (176F)	5.23	4.95	5.13
SI@90C (194F)	5.62	5.34	5.53
TDS (mg/l)	65076	64484	67208
Temperature (F)	n/d	n/d	n/d
Dissolved CO2 (ppm)	0	0	0
Dissolved H2S (ppm)	2	3	2
Dissolved O2 (ppm)	n/d	n/d	n/d

Analyst: T. Mayer

ctech\watrfor3.wk1

Schlumberger | Wireline & Testing

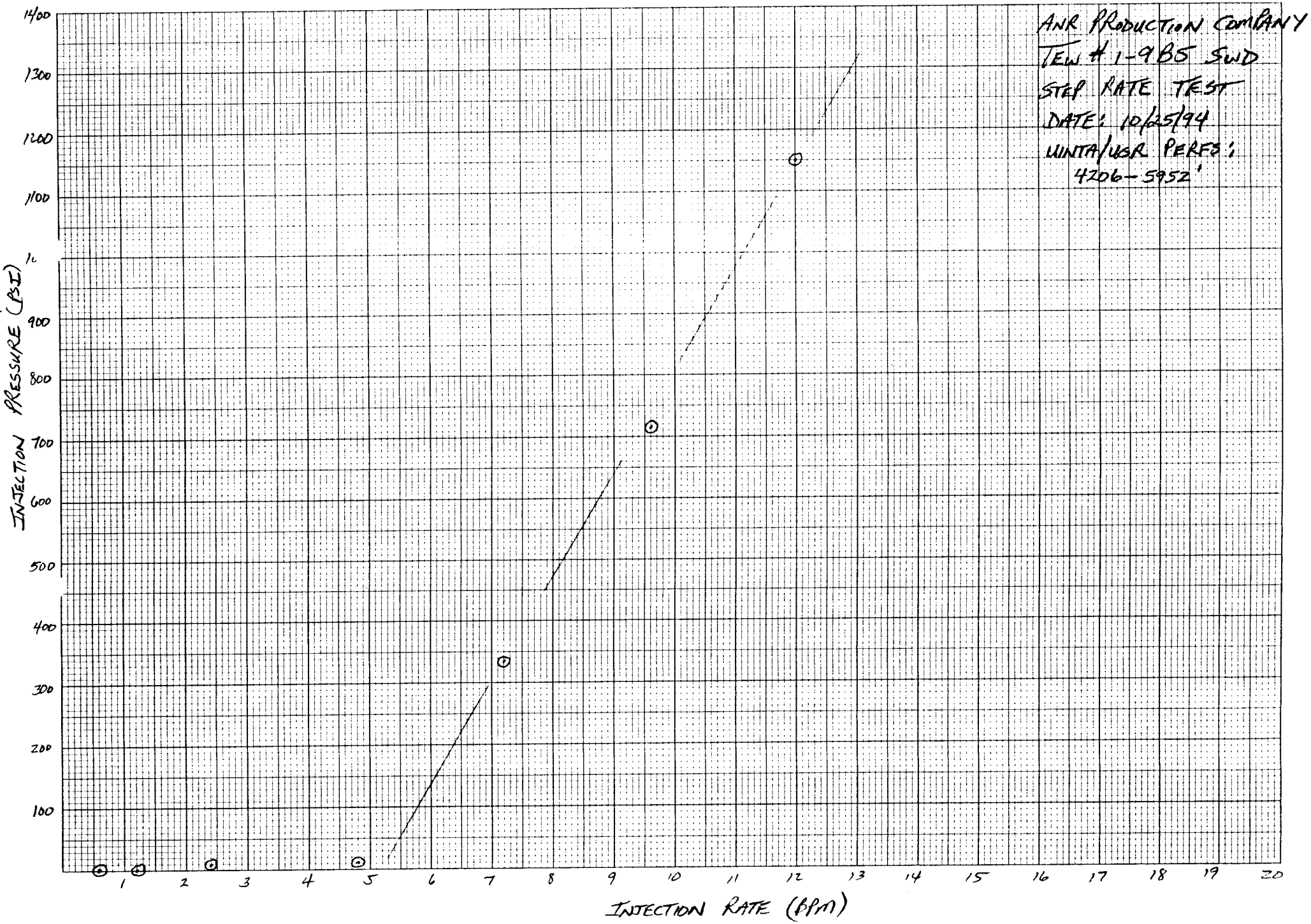
Schlumberger Well Services
6090 Greenwood Plaza Blvd
Englewood Colorado 80111
(303) 843-9090

20 October1994

To: Marc Ernest
From: Garry Williams
Subject: Water Flow Log Evaluation - Duncan Tew #1-9B5 Duchesne UT

Comments regarding the Water Flow Log (WFL) run on the above well on 19 Oct 1994:
Station readings were taken at several levels to evaluate the zone('s) of fluid injection.
WFL stations in the *'down flow'* mode were taken at the following minitron depths;
1. 4191.8' which was above all perfs showing a down flow velocity of 138.5 feet per minute.
2. 5875.8' which shows a down velocity of 5.1 feet per minute. This indicates that approximately 3.7% of the fluid is available to exit the perfs at 5948' to 5952', 6052' to 6058', 6162' to 6169', 6332' to 6340' & 6346' to 6350'.
3. 6375.8', 6395.8' & 6413.8' which show varying down velocities of 2.5 to 5.4 feet per minute. These varying velocities are interpreted as down flow behind pipe and their velocities vary due to the variable cross sectional area of the flow channel behind the pipe.
Three stations in the *'up flow'* mode were made at 4153.3', 4199.3' & 4206.3'. These all confirm that there is no up flow behind either string of pipe above the top perforation at 4206'.

To reduce or possibly eliminate the 3.7% of flow exiting below 5875.8', I would recommend that a bridge plug be set at 6025' to take advantage of the best bonded section from 5990' to 6100' as indicated on the Cement Bond Log of 17 August 1994. This would leave the perforations from 5948' to 5952' open to the injection column but would isolate the following perfs from the injection column (6052' to 6058', 6162' to 6169', 6332' to 6340' & 6346' to 6350').



10-25-94

1985

STEP-RATE TEST DATA

STEP #1 Test Rate (5% max rate) .16 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	0	0	0	on vacuum	Rate @ 1.9 B.P.M.		

STEP #2 Test Rate (10% max rate) 1.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	0	on vacuum @ 1.9 B.P.M.					

STEP #3 Test Rate (20% max rate) 2.4 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	8	8	8	8	8	8	8

STEP #4 Test Rate (40% max rate) 4.8 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	8	12	12	12	12	12	12

STEP #5 Test Rate (60% max rate) 7.2 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	322	335	335	335	335	335	335

STEP #6 Test Rate (80% max. rate) 9.6 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	680	700	700	715	715	715	715

STEP #7 Test Rate (100% max rate) 12 (bbl/min)

Time (min) :	0	5	10	15	20	25	30
Pressure (psi):	1130	1130	1130	1130	1135	1140	1150

ISIP : - 0 - (psi)

DELSCO NORTHWEST

1-4BS

MGR/UINTA @ 4206-5952' 0-5000 PSI 12 hr. clock

Depth Feet	Pressure lbs. sq. in	Time Interval From Test Start at (in hours)
	1082	On Bottom 10-25-94
3700'	1082	3 hrs
	1346	10 mins
Start Step Rate Test	1398	20 mins
	1440	30 mins
	1126	40 mins
	1102	50 mins
	1486	60 mins 4 hrs.
	1220	10 mins
	1264	20 mins
	1269	30 mins
	1277	40 mins
	1371	50 mins
	1379	60 mins 5 hrs.
	1385	10 mins
	1423	20 mins
	1431	30 mins
	1437	40 mins
	1473	50 mins
	1503	60 mins 6 hrs.
	1511	10 mins
	1627	20 mins
	1555	30 mins
	1569	40 mins
	1352	50 mins
	1420	60 mins 7 hrs.
	1495	10 mins
	1541	20 mins

UGR/UINTAH @ 4206 - 5952'

COASTAL OIL & GAS
TEW 1-9B5
10-25-94

1-9B5

START STEP RATE TEST

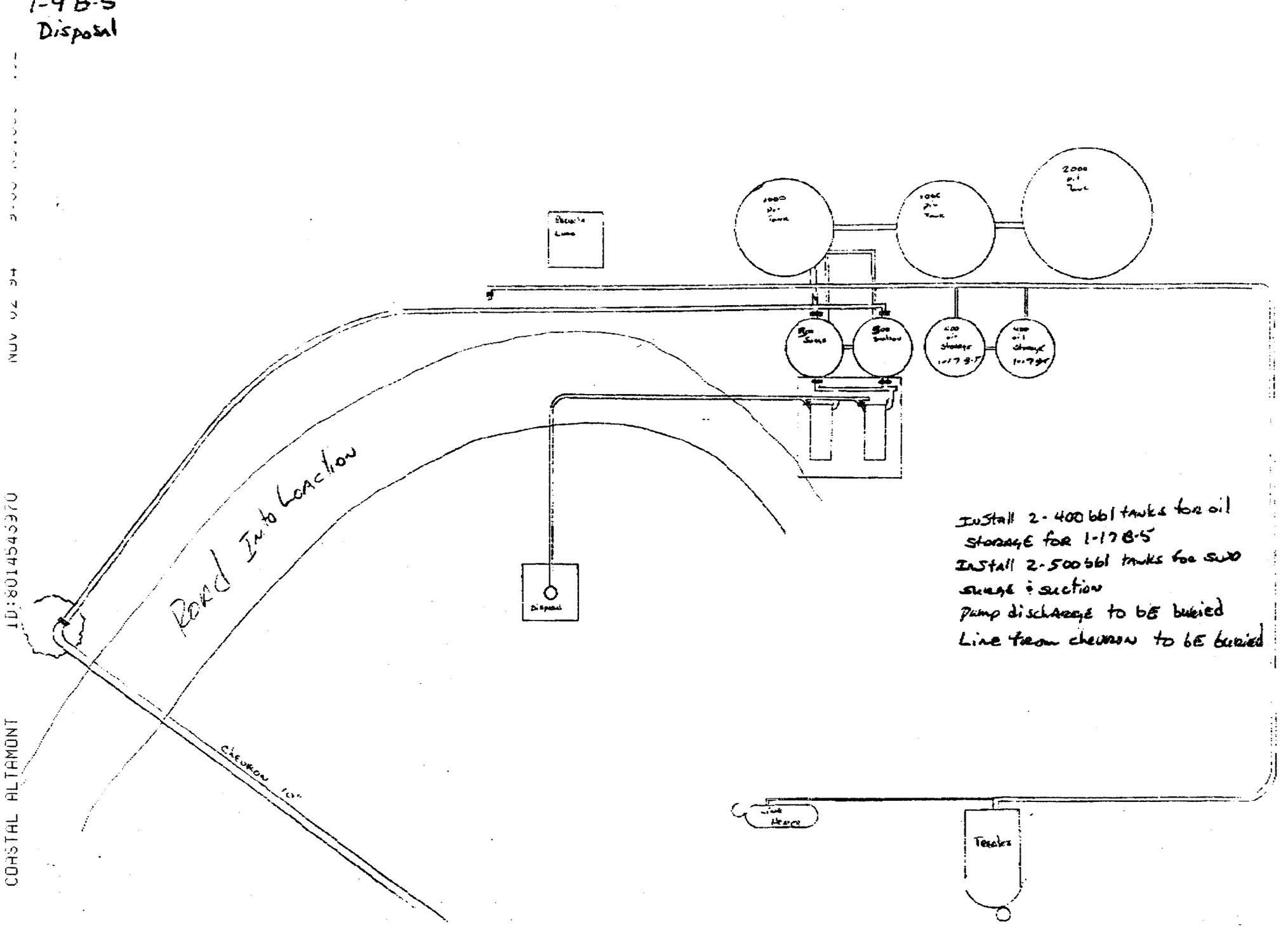
1500

1000

PSI

1 2 3 4 5 6 7 HRS.

1-9 B-5
Disposal



Install 2-400 bbl tanks for oil storage for 1-17 B-5
Install 2-500 bbl tanks for SWD sweage & suction
Pump discharge to be buried
Line from chevron to be buried

ANR PRODUCTION COMPANY
600 17TH STREET, SUITE 800-S
DENVER, COLORADO 80201

DATE: October 20, 1994

FACSIMILE TRANSMITTAL PAGE

THIS TRANSMISSION CONSISTS OF 4 PAGES (INCLUDING COVER)

TO: Gil Hunt

COMPANY/FIRM State of Utah

CITY/STATE: Salt Lake City, UT

FAX #: (801) 359-3940 CONFIRMATION #: (801) 538-5340

FROM: Marc D. Ernest

TELEPHONE #: (303) 573-4454 FROM FAX #: (303) 573-4417

INSTRUCTIONS:

If you have any trouble receiving the above specified pages, please call sender.

Schlumberger | Wireline & Testing
Schlumberger Well Services
6090 Greenwood Plaza Blvd
Englewood Colorado 80111
(303) 843-9090

20 October1994

To: Marc Ernest
From: Garry Williams
Subject: Water Flow Log Evaluation - Duncan Tew #1-9B5 Duchesne UT

Comments regarding the Water Flow Log (WFL) run on the above well on 19 Oct 1994:
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To reduce or possibly eliminate the 3.7% of flow exiting below 5875.8', I would recommend that a bridge plug be set at 6025' to take advantage of the best bonded section from 5990' to 6100' as indicated on the Cement Bond Log of 17 August 1994. This would leave the perforations from 5948' to 5952' open to the injection column but would isolate the following perfs from the injection column (6052' to 6058', 6162' to 6169', 6332' to 6340' & 6346' to 6350').

10/15-16/94 SD for weekend.

10/17/94 Prep to run water flow log.
RU to swab perfs 4206'-5822'. Made 2 swab runs, FL 1000', 18 bbls rec. Total swabbed 742 bbls. Received approval from the State of Utah on swab test of Uinta. Rls pkr. RIH to 5889' & rls BP. RIH to 6445'. Set BP. POOH to 4087', set pkr w/25,000# tension. RU Halliburton to get injection test. CC: $223,590

BPM	Avg psi	bbls pumped
2	0	30
4	183	60
6	560	90
8	1120	120
9	1470	135

10/18/94 Running water flow log.
RU Halliburton & Schlumberger to log perfs at 4206'-6350'. Schlumberger ran water flow log across Uinta/UGR perfs @ 4206'-6350'. Establish injection @ 7 BPM while running log. CC: $227,084

10/19/94 Evaluating water flow log & reviewing w/State of Utah & EPA.
RU Halliburton and Schlumberger to log perfs @ 4206'-6350'. Ran water flow log at various settings while injecting @ 7 BPM. Did not see any flow moving upward behind csg. RD Halliburton and Schlumberger. CC: $243,150

10/5/94 Swab testing UGR perfs.
Continue to perf Uinta @ 4206'-5104' (1656 holes):

Run #	Interval	Feet	Holes	FL
8	5104'-5060'	25	100	1020'
9	5057'-4995'	27	108	1050'
10	4948'-4817'	31	124	1070'
11	4783'-4732'	24	96	1100'
12	4730'-4648'	28	112	1125'
13	4630'-4570'	25	100	1140'
14	4515'-4392'	25	100	1140'
15	4362'-4288'	25	100	1140'
16	4278'-4238'	20	80	1140'
17	4227'-4206'	21	84	1140'
	Total	414	1656	

RD OWP. RIH w/Mtn States 7" B-2 BP, retrieving head, 7" 32-A pkr, SN, 200 jts 2⅞" tbg, set BP @ 6445'. PU, set pkr @ 5886' w/25,000# tension. RU to swab perfs 6350'-5948', 124 holes. Made 3 swab runs. Recover 24 bbls prod wtr, FFL @ 4700'. CC: $202,676

10/6/94 Check FL for static BHP.
Made 29 swab runs, IFL @ 1000', FFL @ 2300'. Rec 256 BW/9½ hrs, feed-in 27 BPH, chloride 24-26,000 ppm. Caught 3 samples for EPA & sent in for analysis. SD swabbing @ 4:40 p.m., 10/6/94. CC: $205,597

10/7/94 WO EPA & State approvals.
Check FL - found FL @ 2000' after 14-hr SI. Est BHP @ 6149' (COP) = 1877 psi. Sent in 3 wtr samples for approval of injection zone, UGR @ 5948'-6350'. CC: $208,114

10/8-9/94 WO EPA & State approvals, SD for weekend.

10/10/94 WO EPA & State approvals on swab test. Offices were closed for holiday. CC: $210,398

10/11/94 Prep to release pkr & swab test Uinta.
Received approval of swab test on UGR perfs @ 5948'-6350' from EPA & State of Utah.

10/12/94 Swab testing Uinta @ 4206'-5822'.
Release pkr. RIH to 6445' & release plug. POOH to 5889' & set BP. POOH to 4087', set pkr w/25,000# tension. Swab Uinta perfs @ 4206'-5822' for 21½ hrs. Rec 345 BW, FFL 1000' (stable), feed-in rate 36 BPH, chloride 18,000 ppm, pH 10.0. CC: $213,973

10/13/94 Checking FL for static BHP.
RU to swab Uinta perfs @ 4206'-5822'. Made 14 swab runs, FL stable @ 1000', pH 10, chloride 18,000 ppm, feed-in rate 36 BPH, rec 127 bbls, 3½ hrs (2-day total, 472 bbls). Caught 3 wtr samples and sent results to EPA & State for approval. SI swbg @ 10:30 a.m. for buildup. CC: $216,137

10/14/94 WO State approval of swab test on Uinta.
Check FL - FL @ 1000' after 23½-hr SI. Est BHP @ 5014' (COP) = 1790 psi. Swab Uinta perfs @ 4206'-5822'. IFL 1000', made 28 swab runs/7 hrs, FFL stable @ 1000', pH 10.0, chloride 18,000 ppm, feed-in rate 36 BPH. Caught 3 more samples for State & sent to Uni-Chem & Champion for analysis. Recovered 252 bbls (3-day total - 724 bbls). CC: $218,677

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0% ANR AFE: 64801
TD: 15,337'
7" @ 11,999'
INJECTION INTERVALS: 4206'-6350' (UGR/UINTAH)
CWC(M$): 192.0

7/19/94 RU rig.
Too windy to RU rig. CC: $2,260

7/20/94 DO cmt.
RU. Welder cut off plate and dressed 7" csg stub. Install 5000 x 7-1/16" tbg spool. PT to 2500#. Install BOP's. MU 3⅛" DC's w/6" drag bit. DO cmt from sfc to 60'. CC: $7,675

7/21/94 Mill on cmt @ 190'.
Drill cmt from 60'-160'. Stand pipe plugged up. Mill from 160'-190'. Keeps plugging up - acts like bit partially plugged. POOH w/tbg, DC's, bit. Bit plugged w/cmt. RIH w/6" drag bit, 6 - 3⅛" DC's. CC: $10,559

7/22/94 Mill on cmt @ 5568'.
Drill cmt from 190'-265', fell thru. PU 165 jts 2⅞", tag @ 5568'. CC: $13,669

7/23-24/95 SD for weekend.

7/25/94 Drill on cmt.
PT csg to 2200#/15 min - OK. RU swivel. Tag @ 5568'. Mill cmt to 5641'. Drive line broke. Circ clean. CC: $16,121

7/26/94 Drill on cmt.
PU swivel. DO cmt from 5641' to 5933' (292', avg 29'/hr). Circ btms up. PU. CC: $19,596

7/27/94 Prep to run Bond Log.
Drill cmt @ 5933'-6018', fell thru. RIH to 6058'. Circ btms up. PT csg to 2200#/15 min - good. RD swivel. PU 2⅞" tbg. RIH, tag @ 9683'. Circ well. PT to 2200#, hold. POOH w/2⅞" tbg, 8rd collars, drag bit. CC: $22,979

7/28/94 RIH w/pkr.
RU OWP to log well. Run GR/CBL from 9635' to sfc w/2000# - poor bond. Prep to perf. RIH w/4" guns. Shoot 4 sqz holes @ 6400' & 6060'. RD OWP. RIH w/Mtn States 7" HD pkr, 140 jts 2⅞" tbg. CC: $33,376

7/29/94 RIH w/bit.
Continue to RIH w/2⅞" tbg, set pkr @ 6108'. Pump down tbg, 3 BPM @ 700# - not getting full returns. Rls pkr, POOH w/2⅞" tbg. RIH w/Mtn States 7" SV retainer, 2⅞" tbg, set retainer @ 6330'. RU Halliburton to cmt perfs @ 6400', w/returns thru perfs @ 6060'. Pump 10 BFW, 10 bbls $CaCl_2$, 5 BFW, 10 bbls Flocheck, 5 BFW, 190 sx 50/50 poz w/additives, 1.53 yield, 13.5 ppg, 10 BFW, 26 bbls prod wtr (very little returns). Pull out of retainer. POOH w/rest of 2⅞", stinger, WOC. CC: $49,112

7/30-31/94 SD for weekend.

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-985 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/1/94 RIH w/pkr, prep to sqz perfs @ 6060'.
Pump 20 bbls prod wtr down csg, pressure tbg to 800#, broke back to 500# @ 3 BPM. RIH w/6" drag bit, 8 - 3⅛" DC's, 2⅞" tbg. Tag TOC @ 6325'. POOH w/2⅞" tbg, DC's, drag bit. RU OWP. Run Temp Svy from 6325' to 6060' - temp changed @ 6060'. See abnormal heat change from 6060' to cmt top (indication of cmt throughout interval). POOH. RD OWP. RIH w/7" Mtn States HD pkr, SN, 110 jts 2⅞". CC: $54,015

8/2/94 POOH w/tbg.
Continue to RIH w/2⅞". Set 7" pkr @ 5815'. RU Halliburton to cmt sqz hole @ 6060'. PT to 2000#, hold. Est inj rate down tbg, 4 BPM @ 1100#. Pump 10 BFW, 20 bbls $CaCl_2$, 5 BFW, 20 bbls Flocheck, 5 BFW, 300 sx Thixotropic cmt w/additives, 1.77 yield, 13.5#, 94.5 bbls slurry, 10 BFW, 30 bbls prod wtr. Sqz to 2000#, hold. Rls pkr, rev w/50 bbls prod wtr. Pull to 5190', set pkr. Pressure to 1000#. RD Halliburton. CC: $67,014

8/3/94 WOC.
Rls pkr. POOH w/2⅞" tbg, 7" pkr. Fill 7" csg, PT to 2000#. RU OWP. Perf 4 holes @ 5670' with 1-11/16" circ guns. Try to circ. Pressure to 2000#, hold. Pump down 9⅝", took 20 bbls to fill w/900#, injecting 2 BPM with no circ. Perf 4 holes @ 5060' with 1-11/16" circ guns. Circ down 7" out 9⅝", 4 BPM @ 700#. RIH w/Mtn States 7" SV retainer, set @ 5000'. RD OWP. RIH w/retainer stinger, 2⅞" tbg. Sting into retainer. RU Halliburton, pump 10 BFW, 220 sx HiFill (11.0 ppg, 3.82 CF/sx, 149.6 bbls slurry, 50 sx Premium Plus w/2% $CaCl_2$ (15.6 ppg, 1.18 CF/sx), 10.5 bbls slurry, 10 BFW, 27 bbls prod wtr. Did not circ out any cmt, had good returns thru job. Sting out of retainer. POOH w/2⅞" tbg. CC: $81,638

8/4/94 Prep to check cmt top.
WOC. CC: $81,638

8/5/94 DO cmt.
RU OWP to log - run CBL from 4939' to sfc, TOC looks like 2930'. Perf 4 holes @ 2925' with 1-11/16" circ guns. Attempt to circ down 7". Pressure to 2000# - no circ. Perf 4 holes @ 2200'. Attempt to circ down 7" csg. Pressure to 2000# - no circ. Decide to CO hole while cmt is curing. RD OWP. RIH w/6" rock bit, DC, 2⅞" tbg, tag @ 4939'. Drill cmt to 4960'. Circ tbg clean. CC: $91,101

8/6-7/94 SD for weekend.

8/8/94 Continue drlg retainer.
Continue to drill cmt from 4960' to top of CICR @ 5000'. Made total of 11" to 5001'. Circ btms up. CC: $94,398

8/9/94 Drlg cmt @ 5960'.
Finish drlg up CICR @ 5001' and cmt. Fell out of cmt @ 5068'. Circ clean. PT csg & perf @ 5060' to 2025#, 15 min 1800#. RIH, tag TOC @ 5929'. Drill to 5960' - made 31', cmt soft. Circ btms up. CC: $97,610

8/10/94 Drill CICR @ 6330'.
Continue to drill cmt. Breaks thru @ 6092'. Circ btms up. PT 2000# - lost pressure, 15 min - 1800#. RIH, tag cmt @ 6322'. Drill cmt to top or retainer @ 6330'. CC: $100,881

8/11/94 POH w/bit.
Tag retainer @ 6330'. Drill to 6331'. Circ btms up. CC: $104,247

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/12/94 Mill on retainer.
POOH w/worn bit. RIH w/6⅛" bladed mill, XO's, 8 - 3⅛" DC's, 188 jts 2⅞" tbg, tag @ 6331'. RU swivel. Break circ. Drld 2". Pull mill off btm, circ btms up. CC: $107,782

8/13-14/94 SD for weekend.

8/15/94 Drill on cmt & retainer.
RIH, tag @ 6331'. Est circ. Mill plugging up. RD swivel. POOH w/2⅞" tbg, DC's, 6" mill. RIH w/6" rock bit, collars, 2⅞" tbg. PU swivel, est circ. Drill on retainer to 6333' (acts like btm of retainer spinning). Circ btms up. CC: $111,942

8/16/94 POOH w/2⅞" tbg.
Dill on retainer & cmt from 6333' to 6415', fell thru. RIH to 6435'. Circ btms up. PT to 2025# ISIP, 5 min - 1950#, 10 min 1925#, 15 min 1900#. RIH to 7050', no tag. Remove strip head. POOH w/2⅞" tbg, EOT @ 4800'. CC: $115,314

8/17/94 WOC, rls pkr.
Finish POOH w/2⅞", DC's, 6" bit. RU OWP, log GR/CBL from 0-6500' w/2000# on well. TOC @ 400'. Perf 4 shots @ 395'. POOH, RD OWP. Est circ, good. RIH w/Mtn States 7" 32-A pkr, 6 jts 2⅞", set @ 214' w/20,000# tension. RU Halliburton to cmt sqz holes @ 395'. Est circ down 2⅞" tbg, 3.5 BPM @ 400#. Pump 10 BFW, 70 sx Type 5 neat cmt, 1.18 yield (14.7 bbls), 7.5 BFW. Circ cmt to sfc up 9⅝" csg. RD Halliburton. CC: $124,442

8/18/94 Prep to log well.
Rls pkr. POOH w/6 jts 2⅞", 7" pkr. RIH w/6" drag bit, 8 jts DC's, 2 jts 2⅞", tag @ 355'. RU drlg rubber, power swivel. Drill cmt to 400', fell thru. RIH to 465', circ btms up. PT csg to 2025# ISIP, 5 min - 1975#, 10 min 1950#, 15 min 1925#. RD swivel, drlg rubber. POOH w/tbg, DC's, drag bit. CC:$127,033

8/19/94 Logging well.
RU Schlumberger. Run Schlumberger Digital Sonic & Neutron Log from 8000' to sfc. Run CBL from 600' to sfc. RD WL. CC: $145,187

8/20-21/94 SD for weekend.

8/22/94 Evaluating logs for perf schedule.

8/23/94 RDMO.
Move to the Ute #2-22B6. Evaluating logs for perf schedule. Drop from report until further activity. CC: $145,187

10/4/94 Perf Uintah @ 4206'-5104'.
Received approval from State of Utah & EPA on CBL. RU OWP, perf UGR/Uintah @ 5118'-6350' @ 4 SPF w/4" csg gun (652 holes):

Run #	Interval	Feet	Holes	FL
1	6350'-6052'	25	100	0
2	5952'-5754'	23	92	0
3	5692'-5532'	23	92	0
4	5456'-5402'	21	84	100'
5	5374'-5296'	26	104	450'
6	5290'-5174'	24	96	550'
7	5168'-5118'	21	84	630'

CC: $166,062

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

10/5/94 Swab testing UGR perfs.
Continue to perf Uintah @ 4206'-5104' (1656 holes):

Run #	Interval	Feet	Holes	FL
8	5104'-5060'	25	100	1020'
9	5057'-4995'	27	108	1050'
10	4948'-4817'	31	124	1070'
11	4783'-4732'	24	96	1100'
12	4730'-4648'	28	112	1125'
13	4630'-4570'	25	100	1140'
14	4515'-4392'	25	100	1140'
15	4362'-4288'	25	100	1140'
16	4278'-4238'	20	80	1140'
17	4227'-4206'	21	84	1140'
	Total	414	1656	

RD OWP. RIH w/Mtn States 7" B-2 BP, retrieving head, 7" 32-A pkr, SN, 200 jts 2⅞" tbg, set BP @ 6445'. PU, set pkr @ 5886' w/25,000# tension. RU to swab perfs 6350'-5948', 124 holes. Made 3 swab runs. Recover 24 bbls prod wtr, FFL @ 4700'. CC: $202,676

10/6/94 Check FL for static BHP.
RU to swab, IFL 1000'. Swab 256 BW/9½ hrs, FFL 2300', feed-in 27 BPH, chloride 24-26,000 ppm. Caught 3 samples for EPA & sent in for analysis. SD swabbing @ 4:40 p.m. CC: $205,597

10/7/94 CK FL - 2000' AFTER 14 HR SI.
EST BHP @ C.O.P. (6149') = 1877 psi

Champion Technologies, Inc.
2060 SOUTH 1500 EAST
VERNAL, UTAH 84078

Telephone (801) 789-4327

WATER ANALYSIS REPORT

Company: ANR PRODUCTION
Address:
Field/Lease: 1-9B5

Report For: MARK EARNEST
cc. JIM FOREMAN
cc.
cc.
Service Engineer: ED SCHWARZ

Report #: 940550

Date Sampled: 10-12-94

Date Received: 10-13-94

Date Reported: 10-13-94

Chemical Component	1-9B5 1:00 PM	1-9B5 2:00 PM	1-9B5 3:00 PM
Chloride (mg/l)	13000	14000	14000
Sulfate (mg/l)	188	219	188
Carbonate (mg/l)	4666	4776	4740
Bicarbonate (mg/l)	14103	14201	14445
Calcium (mg/l)	120	120	80
Magnesium (mg/l)	49	49	49
Iron (mg/l)	2	2	2
Barium (mg/l)	n/d	n/d	n/d
Strontium (mg/l)	n/d	n/d	n/d
Sodium (mg/l)	17180	17963	18058
pH	10.0	10.1	10.1
Ionic Strength	0.84	0.89	0.88
Specific Gravity	1.030	1.030	1.030
SI@20C (68F)	3.49	3.59	3.41
SI@25C (77F)	3.68	3.68	3.50
SI@30C (86F)	3.70	3.80	3.63
SI@40C (104F)	3.91	4.01	3.84
SI@50C (122F)	4.12	4.22	4.04
SI@60C (140F)	4.52	4.61	4.44
SI@70C (158F)	4.79	4.89	4.72
SI@80C (176F)	5.17	5.27	5.09
SI@90C (194F)	5.55	5.64	5.47
TDS (mg/l)	49310	51330	51562
Temperature (F)			
Dissolved CO2 (ppm)	0	0	0
Dissolved H2S (ppm)	n/d	n/d	n/d
Dissolved O2 (ppm)	n/d	n/d	n/d

Analyst: T. Mayer

clech\watrfor3.wk1

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION) PAGE 4
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

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COASTAL OIL & GAS CORPORATION
600 17TH STREET, SUITE 800S
DENVER, COLORADO 80201

DATE: September 27, 1994

FACSIMILE TRANSMITTAL PAGE

THIS TRANSMISSION CONSISTS OF 4 PAGES (INCLUDING COVER)

TO: Dan Jarvis

COMPANY/FIRM: State of Utah

CITY/STATE:

FAX #: (801) 359-3940 **CONFIRMATION #:** (801) 538-5340

FROM: Marc Ernst

TELEPHONE #: (303) 573-4454

INSTRUCTIONS:

IF YOU HAVE ANY TROUBLE RECEIVING THE ABOVE SPECIFIED PAGES, PLEASE NOTIFY SENDER.

Schlumberger Wireline & Testing

Schlumberger Well Services
6090 Greenwood Plaza Blvd
Englewood Colorado 80111
(303) 843-9090

26 September 1994

To: Marc Ernest
From: Garry Williams
Subject: CBL Evaluation - Duncan Tew #1-9B5 Duchesne UT

Comments regarding types of cement bond logs are as follows;
Since the well has more than one pipe string, it is important to realize that the lower frequency CBL is the best choice to look for evidence of formation signal on the VDL trace. The CBL however has difficulty evaluating the presence or absence of a low compressive strength cement. The bond log of choice for light weight (low compresive strength) cements is the ultra sonic Cement Evaluation Tool (CET) or the Ultra Sonic Imaging Tool (USIT). However, due to their higher frequency they do not see beyond the cement sheath behind the first pipe string.
A combination of both CBL & the CET or USIT would allow me to better evaluate cement behind the first string but it is also important to know what the hydraulic isolation is behind the second pipe string.
The objective is to provide hydraulic isolation between zones. To attempt to squeeze several zones without knowing whether isolation presently exists or not can be cost prohibitive.
Since a tool does exist (WFL - Water Flow Log) that measures water flow behind pipe, it may be advisable to consider, as an alternate, to convert the well to injection and monitor for fluid movement at specified time intervals at a later date.
If flow is outside the specified zone, then a squeeze to provide hydraulic isolation could be targeted at the correct depth(s).
Many times in older wells the sloughing of the formation against the pipe over long intervals will provide a hydraulic seal.
Evidence of this is the inability to establish circulation as was apparent several times during the attempted squeeze operations.
Eccentralized casing strings are prone to channeling that is hard to squeeze at the azimuth adjacent to where the strings are touching each other or the open hole wellbore.

Specific comments regarding the existing CBL logs are as follows;
<u>CBL of 7-28-94</u>
9630' to 8720' - Little to no formation signal indicating essentially no hydraulic isolation.
8720' to 7340' - Some evidence of cement due to formation arrivals on the VDL signature. This is indicative of part of the casing circumference having cement and part of the circumference having no cement. Typical for non centralized casings.

7340' to 6335' - Little to no formation signal indicating essentially no hydraulic isolation.
6335' to 6054' - Some evidence of cement due to formation arrivals on the VDL signature. This is indicative of part of the casing circumference having cement and part of the circumference having no cement. Typical for non centralized casings.
6054' to 6046' - Good bond, good hydraulic isolation.
6046' to 6016' - Fair bond, fair hydraulic isolation.
6016' to 5978' - Good bond, good hydraulic isolation.
5978' to 5888' - Partial bonding, suspect eccentered casing.
5888' to 5826' - Good bond, good hydraulic isolation.
5826' to 5810' - Partial bonding, suspect eccentered casing.
5810' to 5724' - Good bond, good hydraulic isolation.
5724' to 5090' - Partial bonding, suspect eccentered casing.
5090' to 0030' - Mostly free pipe, some intervals showing formation signal on the VDL signature indicating low compressive strength cement &/or eccentered casings. Formation signal evident throughout most of the interval.

CBL of 8-5-94

4930' to 2930' - Amplitude indicates some filling of the suspected channeling due to eccentered casing.
2930' to 2300' - Minor changes in amplitude would indicate minor changes of the hydraulic isolation. Low compressive strength cement has minor affect on amplitude response.
2300' to 0024' - No significant change in hydraulic isolation.

CBL of 8-17-94

6550' to 6402' - See evidence of squeeze at 6400'.
6402' to 6396' - See stronger evidence of squeeze at 6400'.
6396' to 6173' - Minor evidence of squeeze.
6173' to 6163' - More significant evidence of squeeze. Improved hydraulic isolation.
6163' to 6132' - Minor evidence of squeeze.
6132' to 5996' - Improved bond/hydraulic isolatio from the CBL of 7-28-94.
5996' to 5886' - Minor evidence of squeeze.
5886' to 5798' - Same good bonding/hydraulic isolation as in the CBL of 7-28-94. No apparent change.
5798' to 5724' - Minor loss of bonding from CBL of 7-28-94.
5724' to 5672' - No change from CBL of 7-28-94.
5672' to 5666' - Slight bond improvement at the squeeze perfs @ 5620'.
5666' to 5066' - Minimal to no change from CBL of 7-28-94.
5066' to 4936' - Good bond/hydraulic isolation as a result of the squeeze @ 5060'.
4936' to 0400' - Small intervals showing evidence of minor changes in bonding. Suspect minor channeling due to casing eccentrallization. (minor evidence of squeeze @ 2925'. From 2900' to 3400' both 7" & 9 5/8" collars are visible on the VDL trace indicating poor hydraulic isolation across this interval.
0400' to 0026' - 7" appears to be free but VDL trace shows evidence of a formation signal indicating part of the circumference is cemented or is laying against the

formation. At this depth it is my opinion that cement covers a portion of the circumference.

CBL of 8-19-94

0400' to 0390' - Good bond/hydraulic isolation.

0390' to 0022' - Improved bonding/hydraulic isolation between the 7" & 9 5/8" casings.

CBL generated from the SDT waveforms of 8-19-94

Sections of good bond/good hydraulic isolation occurs at the following intervals;

6110' to 5985'

5890' to 5825'

5065' to 5000'

In summary - It is my opinion that it would be more cost effective to convert the well to an injector and approve a plan to monitor for fluid movement behind casing using the Water Flow Log (WFL) which is approved by the EPA for Class II disposal wells.

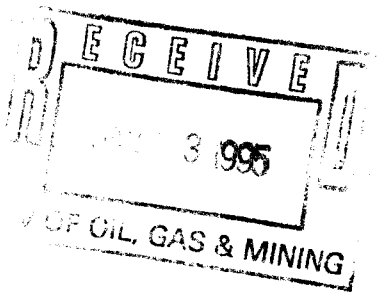
Any water flow outside of the injection interval could then be isolated via a depth specific squeeze.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

JAN 18 1995

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED



Mr. Mark D. Ernest
Production Superintendent
ANR Production Company
P.O. Box 749
Denver, Colorado 80201-0749

RE: Authorization to Inject,
UIC Permit UT2722-03788
TEW #1-9B5 SWD, Altamont Field
Duchesne County, Utah

Dear Mr. Ernest:

Thank you for your January 10, 1995, Well Completion Report (Form 7520-10), the witnessed/passed Mechanical Integrity Test (MIT) and pressure recording chart, completed Well Rework Record (Form 7520-12), injection water analyses (1.030 Sg), and the injection formation static bottom hole pressure of 2,525 psig at 5,952' for the above-cited, recently permitted injection facility.

You are hereby authorized to commence injection into only the 4,206-5,822' Uinta and the 5,948-5,952' Upper Green River perforated intervals now that these documents have been reviewed and approved, and that all "prior to injection" permit conditions have been satisfied.

Please direct any written questions you have on this action to **the attention of Gustav Stolz at Mail Code 8WM-DW**; you may telephone him at **(303) 293-1416**.

Sincerely,

Thomas J. Pike
Chief
UIC Implementation Section

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 75.0% ANR AFE: 64801
TD: 15,337'
7" @ 11,999'
INJECTION INTERVALS: 4206'-5952' (UGR/UINTA)
CWC(M$): 192.0

7/19/94 RU rig.
Too windy to RU rig. CC: $2,260

7/20/94 DO cmt.
RU. Welder cut off plate and dressed 7" csg stub. Install 5000 x 7-1/16" tbg spool. PT to 2500#. Install BOP's. MU 3⅛" DC's w/6" drag bit. DO cmt from sfc to 60'. CC: $7,675

7/21/94 Mill on cmt @ 190'.
Drill cmt from 60'-160'. Stand pipe plugged up. Mill from 160'-190'. Keeps plugging up - acts like bit partially plugged. POOH w/tbg, DC's, bit. Bit plugged w/cmt. RIH w/6" drag bit, 6 - 3⅛" DC's. CC: $10,559

7/22/94 Mill on cmt @ 5568'.
Drill cmt from 190'-265', fell thru. PU 165 jts 2⅞", tag @ 5568'. CC: $13,669

7/23-24/95 SD for weekend.

7/25/94 Drill on cmt.
PT csg to 2200#/15 min - OK. RU swivel. Tag @ 5568'. Mill cmt to 5641'. Drive line broke. Circ clean. CC: $16,121

7/26/94 Drill on cmt.
PU swivel. DO cmt from 5641' to 5933' (292', avg 29'/hr). Circ btms up. PU. CC: $19,596

7/27/94 Prep to run Bond Log.
Drill cmt @ 5933'-6018', fell thru. RIH to 6058'. Circ btms up. PT csg to 2200#/15 min - good. RD swivel. PU 2⅞" tbg. RIH, tag @ 9683'. Circ well. PT to 2200#, hold. POOH w/2⅞" tbg, 8rd collars, drag bit. CC: $22,979

7/28/94 RIH w/pkr.
RU OWP to log well. Run GR/CBL from 9635' to sfc w/2000# - poor bond. Prep to perf. RIH w/4" guns. Shoot 4 sqz holes @ 6400' & 6060'. RD OWP. RIH w/Mtn States 7" HD pkr, 140 jts 2⅞" tbg. CC: $33,376

7/29/94 RIH w/bit.
Continue to RIH w/2⅞" tbg, set pkr @ 6108'. Pump down tbg, 3 BPM @ 700# - not getting full returns. Rls pkr, POOH w/2⅞" tbg. RIH w/Mtn States 7" SV retainer, 2⅞" tbg, set retainer @ 6330'. RU Halliburton to cmt perfs @ 6400', w/returns thru perfs @ 6060'. Pump 10 BFW, 10 bbls $CaCl_2$, 5 BFW, 10 bbls Flocheck, 5 BFW, 190 sx 50/50 poz w/additives, 1.53 yield, 13.5 ppg, 10 BFW, 26 bbls prod wtr (very little returns). Pull out of retainer. POOH w/rest of 2⅞", stinger, WOC. CC: $49,112

7/30-31/94 SD for weekend.

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/1/94 RIH w/pkr, prep to sqz perfs @ 6060'.
Pump 20 bbls prod wtr down csg, pressure tbg to 800#, broke back to 500# @ 3 BPM. RIH w/6" drag bit, 8 - 3⅛" DC's, 2⅞" tbg. Tag TOC @ 6325'. POOH w/2⅞" tbg, DC's, drag bit. RU OWP. Run Temp Svy from 6325' to 6060' - temp changed @ 6060'. See abnormal heat change from 6060' to cmt top (indication of cmt throughout interval). POOH. RD OWP. RIH w/7" Mtn States HD pkr, SN, 110 jts 2⅞". CC: $54,015

8/2/94 POOH w/tbg.
Continue to RIH w/2⅞". Set 7" pkr @ 5815'. RU Halliburton to cmt sqz hole @ 6060'. PT to 2000#, hold. Est inj rate down tbg, 4 BPM @ 1100#. Pump 10 BFW, 20 bbls $CaCl_2$, 5 BFW, 20 bbls Flocheck, 5 BFW, 300 sx Thixotropic cmt w/additives, 1.77 yield, 13.5#, 94.5 bbls slurry, 10 BFW, 30 bbls prod wtr. Sqz to 2000#, hold. Rls pkr, rev w/50 bbls prod wtr. Pull to 5190', set pkr. Pressure to 1000#. RD Halliburton. CC: $67,014

8/3/94 WOC.
Rls pkr. POOH w/2⅞" tbg, 7" pkr. Fill 7" csg, PT to 2000#. RU OWP. Perf 4 holes @ 5670' with 1-11/16" circ guns. Try to circ. Pressure to 2000#, hold. Pump down 9⅝", took 20 bbls to fill w/900#, injecting 2 BPM with no circ. Perf 4 holes @ 5060' with 1-11/16" circ guns. Circ down 7" out 9⅝", 4 BPM @ 700#. RIH w/Mtn States 7" SV retainer, set @ 5000'. RD OWP. RIH w/retainer stinger, 2⅞" tbg. Sting into retainer. RU Halliburton, pump 10 BFW, 220 sx HiFill (11.0 ppg, 3.82 CF/sx, 149.6 bbls slurry, 50 sx Premium Plus w/2% $CaCl_2$ (15.6 ppg, 1.18 CF/sx), 10.5 bbls slurry, 10 BFW, 27 bbls prod wtr. Did not circ out any cmt, had good returns thru job. Sting out of retainer. POOH w/2⅞" tbg. CC: $81,638

8/4/94 Prep to check cmt top.
WOC. CC: $81,638

8/5/94 DO cmt.
RU OWP to log - run CBL from 4939' to sfc, TOC looks like 2930'. Perf 4 holes @ 2925' with 1-11/16" circ guns. Attempt to circ down 7". Pressure to 2000# - no circ. Perf 4 holes @ 2200'. Attempt to circ down 7" csg. Pressure to 2000# - no circ. Decide to CO hole while cmt is curing. RD OWP. RIH w/6" rock bit, DC, 2⅞" tbg, tag @ 4939'. Drill cmt to 4960'. Circ tbg clean. CC: $91,101

8/6-7/94 SD for weekend.

8/8/94 Continue drlg retainer.
Continue to drill cmt from 4960' to top of CICR @ 5000'. Made total of 11" to 5001'. Circ btms up. CC: $94,398

8/9/94 Drlg cmt @ 5960'.
Finish drlg up CICR @ 5001' and cmt. Fell out of cmt @ 5068'. Circ clean. PT csg & perf @ 5060' to 2025#, 15 min 1800#. RIH, tag TOC @ 5929'. Drill to 5960' - made 31', cmt soft. Circ btms up. CC: $97,610

8/10/94 Drill CICR @ 6330'.
Continue to drill cmt. Breaks thru @ 6092'. Circ btms up. PT 2000# - lost pressure, 15 min - 1800#. RIH, tag cmt @ 6322'. Drill cmt to top or retainer @ 6330'. CC: $100,881

8/11/94 POH w/bit.
Tag retainer @ 6330'. Drill to 6331'. Circ btms up. CC: $104,247

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

8/12/94 Mill on retainer.
POOH w/worn bit. RIH w/6⅛" bladed mill, XO's, 8 - 3⅛" DC's, 188 jts 2⅞" tbg, tag @ 6331'. RU swivel. Break circ. Drld 2". Pull mill off btm, circ btms up. CC: $107,782

8/13-14/94 SD for weekend.

8/15/94 Drill on cmt & retainer.
RIH, tag @ 6331'. Est circ. Mill plugging up. RD swivel. POOH w/2⅞" tbg, DC's, 6" mill. RIH w/6" rock bit, collars, 2⅞" tbg. PU swivel, est circ. Drill on retainer to 6333' (acts like btm of retainer spinning). Circ btms up. CC: $111,942

8/16/94 POOH w/2⅞" tbg.
Dill on retainer & cmt from 6333' to 6415', fell thru. RIH to 6435'. Circ btms up. PT to 2025# ISIP, 5 min - 1950#, 10 min 1925#, 15 min 1900#. RIH to 7050', no tag. Remove strip head. POOH w/2⅞" tbg, EOT @ 4800'. CC: $115,314

8/17/94 WOC, rls pkr.
Finish POOH w/2⅞", DC's, 6" bit. RU OWP, log GR/CBL from 0-6500' w/2000# on well. TOC @ 400'. Perf 4 shots @ 395'. POOH, RD OWP. Est circ, good. RIH w/Mtn States 7" 32-A pkr, 6 jts 2⅞", set @ 214' w/20,000# tension. RU Halliburton to cmt sqz holes @ 395'. Est circ down 2⅞" tbg, 3.5 BPM @ 400#. Pump 10 BFW, 70 sx Type 5 neat cmt, 1.18 yield (14.7 bbls), 7.5 BFW. Circ cmt to sfc up 9⅝" csg. RD Halliburton. CC: $124,442

8/18/94 Prep to log well.
Rls pkr. POOH w/6 jts 2⅞", 7" pkr. RIH w/6" drag bit, 8 jts DC's, 2 jts 2⅞", tag @ 355'. RU drlg rubber, power swivel. Drill cmt to 400', fell thru. RIH to 465', circ btms up. PT csg to 2025# ISIP, 5 min - 1975#, 10 min 1950#, 15 min 1925#. RD swivel, drlg rubber. POOH w/tbg, DC's, drag bit. CC:$127,033

8/19/94 Logging well.
RU Schlumberger. Run Schlumberger Digital Sonic & Neutron Log from 8000' to sfc. Run CBL from 600' to sfc. RD WL. CC: $145,187

8/20-21/94 SD for weekend.

8/22/94 Evaluating logs for perf schedule.

8/23/94 RDMO.
Move to the Ute #2-22B6. Evaluating logs for perf schedule. Drop from report until further activity. CC: $145,187

10/4/94 Perf Uinta @ 4206'-5104'.
Received approval from State of Utah & EPA on CBL. RU OWP, perf UGR/Uinta @ 5118'-6350' @ 4 SPF w/4" csg gun (652 holes):

Run #	Interval	Feet	Holes	FL
1	6350'-6052'	25	100	0
2	5952'-5754'	23	92	0
3	5692'-5532'	23	92	0
4	5456'-5402'	21	84	100'
5	5374'-5296'	26	104	450'
6	5290'-5174'	24	96	550'
7	5168'-5118'	21	84	630'

CC: $166,062

ANR PRODUCTION COMPANY
CHRONOLOGICAL HISTORY

TEW #1-9B5 (SWD CONVERSION)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

10/5/94 Swab testing UGR perfs.
Continue to perf Uinta @ 4206'-5104' (1656 holes):

Run #	Interval	Feet	Holes	FL
8	5104'-5060'	25	100	1020'
9	5057'-4995'	27	108	1050'
10	4948'-4817'	31	124	1070'
11	4783'-4732'	24	96	1100'
12	4730'-4648'	28	112	1125'
13	4630'-4570'	25	100	1140'
14	4515'-4392'	25	100	1140'
15	4362'-4288'	25	100	1140'
16	4278'-4238'	20	80	1140'
17	4227'-4206'	21	84	1140'
	Total	414	1656	

RD OWP. RIH w/Mtn States 7" B-2 BP, retrieving head, 7" 32-A pkr, SN, 200 jts 2⅞" tbg, set BP @ 6445'. PU, set pkr @ 5886' w/25,000# tension. RU to swab perfs 6350'-5948', 124 holes. Made 3 swab runs. Recover 24 bbls prod wtr, FFL @ 4700'. CC: $202,676

10/6/94 Check FL for static BHP.
Made 29 swab runs, IFL @ 1000', FFL @ 2300'. Rec 256 BW/9½ hrs, feed-in 27 BPH, chloride 24-26,000 ppm. Caught 3 samples for EPA & sent in for analysis. SD swabbing @ 4:40 p.m., 10/6/94. CC: $205,597

10/7/94 WO EPA & State approvals.
Check FL - found FL @ 2000' after 14-hr SI. Est BHP @ 6149' (COP) = 1877 psi. Sent in 3 wtr samples for approval of injection zone, UGR @ 5948'-6350'. CC: $208,114

10/8-9/94 WO EPA & State approvals, SD for weekend.

10/10/94 WO EPA & State approvals on swab test. Offices were closed for holiday. CC: $210,398

10/11/94 Prep to release pkr & swab test Uinta.
Received approval of swab test on UGR perfs @ 5948'-6350' from EPA & State of Utah.

10/12/94 Swab testing Uinta @ 4206'-5822'.
Release pkr. RIH to 6445' & release plug. POOH to 5889' & set BP. POOH to 4087', set pkr w/25,000# tension. Swab Uinta perfs @ 4206'-5822' for 21½ hrs. Rec 345 BW, FFL 1000' (stable), feed-in rate 36 BPH, chloride 18,000 ppm, pH 10.0. CC: $213,973

10/13/94 Checking FL for static BHP.
RU to swab Uinta perfs @ 4206'-5822'. Made 14 swab runs, FL stable @ 1000', pH 10, chloride 18,000 ppm, feed-in rate 36 BPH, rec 127 bbls, 3½ hrs (2-day total, 472 bbls). Caught 3 wtr samples and sent results to EPA & State for approval. SI swbg @ 10:30 a.m. for buildup. CC: $216,137

10/14/94 WO State approval of swab test on Uinta.
Check FL - FL @ 1000' after 23½-hr SI. Est BHP @ 5014' (COP) = 1790 psi. Swab Uinta perfs @ 4206'-5822'. IFL 1000', made 28 swab runs/7 hrs, FFL stable @ 1000', pH 10.0, chloride 18,000 ppm, feed-in rate 36 BPH. Caught 3 more samples for State & sent to Uni-Chem & Champion for analysis. Recovered 252 bbls (3-day total - 724 bbls). CC: $218,677

10/15-16/94 SD for weekend.

10/17/94 Prep to run water flow log.
RU to swab perfs 4206'-5822'. Made 2 swab runs, FL 1000', 18 bbls rec. Total swabbed 742 bbls. Received approval from the State of Utah on swab test of Uinta. Rls pkr. RIH to 5889' & rls BP. RIH to 6445'. Set BP. POOH to 4087', set pkr w/25,000# tension. RU Halliburton to get injection test. CC: $223,590

BPM	Avg psi	bbls pumped
2	0	30
4	183	60
6	560	90
8	1120	120
9	1470	135

10/18/94 Running water flow log.
RU Halliburton & Schlumberger to log perfs at 4206'-6350'. Schlumberger ran water flow log across Uinta/UGR perfs @ 4206'-6350'. Establish injection @ 7 BPM while running log. CC: $227,084

10/19/94 Evaluating water flow log & reviewing w/State of Utah & EPA.
RU Halliburton & Schlumberger to log perfs @ 4206'-6350'. Ran water flow log @ various settings while injecting @ 7 BPM. Did not see any flow moving upward behind csg. RD Halliburton & Schlumberger. CC: $243,150

10/20/94 Prep to pull RBP & pkr.
Evaluated & reviewed water flow log w/State & EPA. Received approval from both agencies to proceed w/operations. Will set CIBP @ 6025' to isolate poor bond across UGR perfs @ 6052'-6350'.

10/21/94 RIH w/pkr & 3½" injection tbg.
Rls pkr, RIH to 6445'. Rls BP. POOH & LD 190 jts 2⅞". RIH w/100 jts 2⅞". LD 100 jts 2⅞". RU OWP, set 7" CIBP @ 6025'. Bail 2 sx cmt on top of BP (PBTD 6017'). CC: $249,400

10/22-23/94 SD for weekend.

10/24/94 Prep to run csg integrity test.
RIH w/re-entry guide, 2.25" F-profile, SN, 2 - 2⅞" pup jts, Mtn States 7" Arrowset I w/2.31" F-profile on-off tool, XO, 115 jts 3½" J-55 tbg (Duoline coated), drifting each jt. Pump 120 bbls treated prod wtr down csg. Remove BOP's. Set pkr @ 3628' w/4000# tension, land tbg. Install tree. Fill csg. PT to 1000#, hold 15 min. CC: $270,185

10/25/94 RD rig, prep to install injection facilities.
Ran csg integrity test on 7" csg & pkr for 45 min. Start w/950#, end test @ 925#. RU Delsco WL. RIH to 3700' w/pressure bomb (Amerada 5000# 12-hr clock). RU Halliburton. Perform step-rate test. Pump 1.2 BPM @ 0#, 2.4 BPM @ 8# (30 min), 4.8 BPM @ 12# (30 min), 7.2 BPM @ 335# (30 min), 9.6 BPM @ 715# (30 min), 12 BPM @ 1150# (30 min). ISIP 48#. Pull bomb out of hole. RD Delsco & Halliburton. CC: $289,142

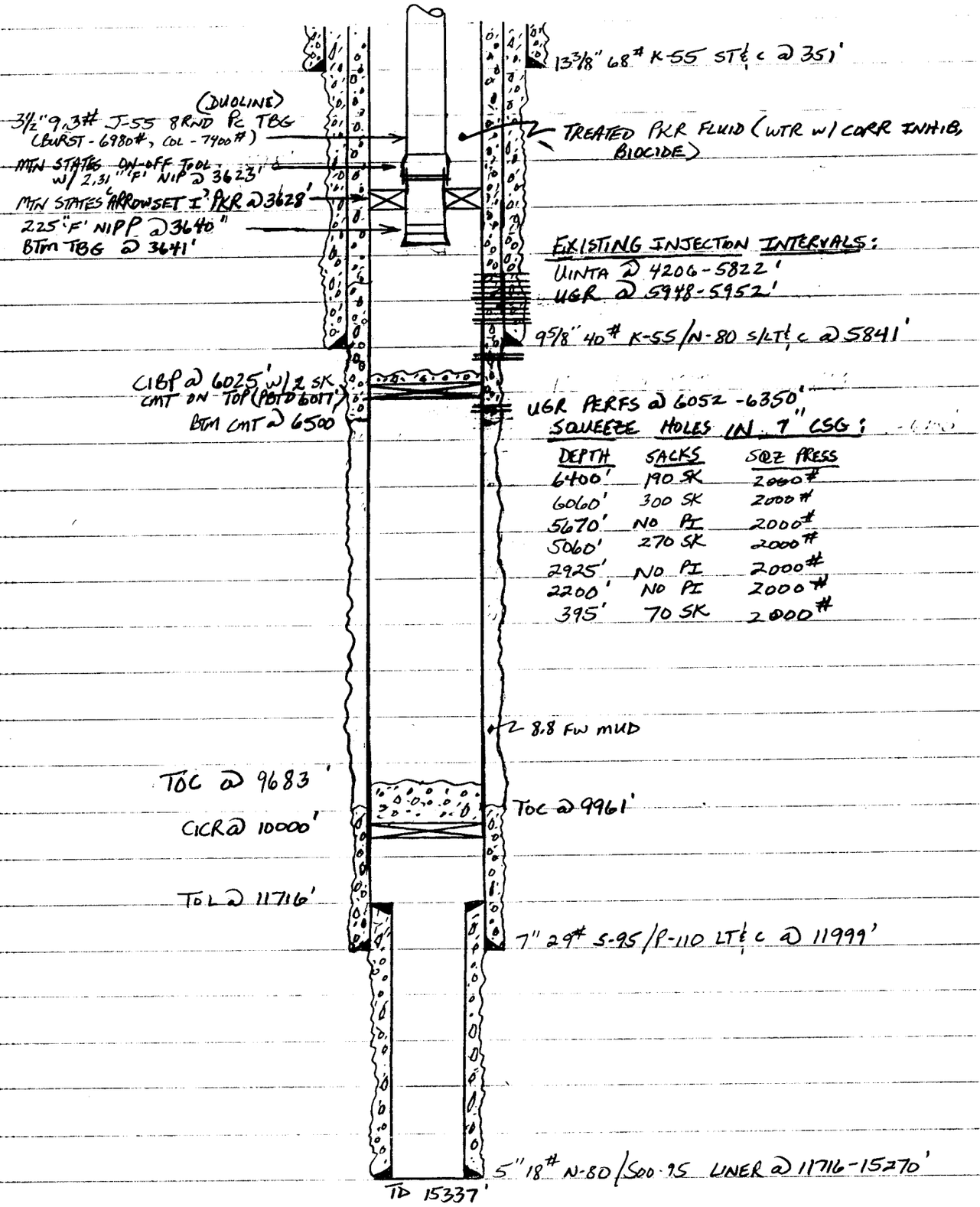
10/26/94 Installing injection facilities. RD rig. Drop from report until further activity. CC: $291,823

PRESENT WELLBORE SCHEMATIC

TEW #1-9B5 SWD

ALTAMONT FIELD

10/26/94



Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-140

Operator: ANR Production Company

Well: Tew 1-9B5

Location: Section 9, Township 2 South, Range 5 West, Duchesne County

API No.: 43-013-30121

Well Type: Disposal

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on January 31, 1994.
2. Maximum Allowable Injection Pressure: 1100 psig
3. Maximum Allowable Injection Rate: (limited by maximum pressure)
4. Injection Interval: 4206 feet to 5952 feet (Green River Formation)

Approved by: _____ 1/31/95

R.J. Firth
Associate Director, Oil and Gas

Date

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

3 1995

5. Lease Designation and Serial Number: Patented

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL ☐ GAS ☐ OTHER: **SWD**

8. Well Name and Number: Tew #1-9B5

2. Name of Operator: ANR Production Company

9. API Well Number: 43-013-30121

3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

10. Field and Pool, or Wildcat: Altamont

4. Location of Well
Footages: 2334' FNL & 1201' FEL
QQ, Sec., T., R., M.: (SE/NE) Section 9, T2S-R5W
County: Duchesne
State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT
(Submit In Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recompletion
- ☐ Perforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☒ Other Correct Operator Name
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Perforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This sundry notice is being submitted to correct the Operator name on an EPA-approved Injection Permit #UT2722-03788 for the subject SWD well. The injection permit was inadvertently filed under Coastal Oil & Gas Corporation. It should have been filed under ANR Production Company, as Operator. Both companies are sister companies under the same parent company, The Coastal Corporation. Since our SWD system for the field is operated under ANR Production Company, we wish to operate this well under the same operator name. Please make the appropriate changes to denote this change.

13.
Name & Signature: M. D. Ernest
Title: Production Superintendent
Date: 01/31/95

(This space for State use only)

(5/94)

(See Instructions on Reverse Side)

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: See Attached

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: See Attached

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: See Attached

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: See Attached

2. Name of Operator: Coastal Oil & Gas Corporation

9. API Well Number: See Attached

3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455

10. Field and Pool, or Wildcat: See Attached

4. Location of Well

Footages: See Attached County: See Attached

QQ, Sec., T., R., M.: See Attached State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit In Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandon	[ ] New Construction	[ ] Abandon *	[ ] New Construction
[ ] Repair Casing	[ ] Pull or Alter Casing	[ ] Repair Casing	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Perforate
[ ] Convert to Injection	[ ] Perforate	[ ] Convert to Injection	[ ] Vent or Flare
[ ] Fracture Treat or Acidize	[ ] Vent or Flare	[ ] Fracture Treat or Acidize	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[X] Other Change of Operator	
[ ] Other			

Approximate date work will start

Date of work completion

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that effective December 27, 1995, ANR Production Company relinquished and Coastal Oil & Gas Corporation assumed operations for the subject wells (see attached). Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Coastal Oil & Gas Corporation under the following bonds: State of Utah #102103, BLM Nationwide Bond #U605382-9, and BIA Nationwide Bond #11-40-66A. Coastal Oil & Gas Corporation, as operator, agrees to be responsible under the terms and conditions of the leases for the operations conducted upon leased lands.

Bonnie Carson
Bonnie Carson, Sr. Environmental & Safety Analyst
ANR Production Company

RECEIVED
MAR - 8 1996
DIV OF OIL, GAS & MINING

13.

Name & Signature: Sheila Bremer

Sheila Bremer
Environmental & Safety Analyst
Title: Coastal Oil & Gas Corporation Date: 03/07/96

(This space for State use only)

(5/94)

(See Instructions on Reverse Side)

Well Name & No.	API No.	Lease Designation & Serial Number	If Indian, Allottee or Tribe Name	CA No.	LOCATION OF WELL Footages	Section, Township & Range	Field	County	
Ute 1-31A2	43-013-30401	14-20-H62-1801 1925	Ute	N/A	2246' FSL & 2270' FWL	NESW, 31-1S-2W	Bluebell	Duchesne	
Ute 1-32Z2	43-013-30379	14-20-H62-1702 1915	Ute	N/A	1484' FNL & 2554' FWL	SENW, 32-1N-2W	Bluebell	Duchesne	
Ute 1-36B6	43-013-30502	14-20-H62-2532 1940	Ute	N/A	1212' FSL & 487' FEL	SESE, 36-2S-6W	Altamont	Duchesne	
Ute 1-6B2	43-013-30349	14-20-H62-1807 1895	Ute	N/A	2052' FSL & 1865' FEL	NWSE, 6-2S-2W	Bluebell	Duchesne	
Ute 2-22B5	43-013-31122	14-20-H62-2509 10453	Ute	N/A	737' FSL & 1275' FWL	SWSW, 22-2S-5W	Altamont	Duchesne	
Ute 2-25A3	43-013-31343	14-20-H62-1802 11361	Ute	N/A	2183' FSL & 1342' FWL	NESW, 25-1S-3W	Bluebell	Duchesne	
Ute 2-26A3	43-013-31340	14-20-H62-1803 11349	Ute	N/A	700' FSL & 700' FWL	SWSW, 26-1S-3W	Bluebell	Duchesne	
Ute 2-27B6	43-013-31449	14-20-H62-4631 11620	Ute	N/A	1727' FNL & 1904' FEL	SWNE, 27-2S-6W	Altamont	Duchesne	
Ute 2-28B6	43-013-31434	14-20-H62-4622 11624	Ute	N/A	1945' FSL & 1533' FEL	NWSE, 28-2S-6W	Altamont	Duchesne	
Ute 2-31A2	43-013-31139	14-20-H62-1801 10458	Ute	N/A	1012' FNL & 1107' FEL	NENE, 31-1S-2W	Bluebell	Duchesne	
Ute 2-33B6	43-013-31445	14-20-H62-2493 11691	Ute	N/A	1796' FNL & 2541' FEL	SWNE, 33-2S-6W	Altamont	Duchesne	
Ute 2-35A3	43-013-31292	14-20-H62-1804 11222	Ute	N/A	660' FNL & 660' FEL	NENE, 35-1S-3W	Bluebell	Duchesne	
Ute 2-6B2	43-013-31140	14-20-H62-1807 11190	Ute	N/A	949' FNL & 1001' FWL	NWNW, 6-2S-2W	Bluebell	Duchesne	
Ute 3-35A3	43-013-31365	14-20-H62-1804 11454	Ute	N/A	1632' FNL & 660' FWL	SWNW, 35-1S-3W	Bluebell	Duchesne	
Ute Tribal 1-27B6	43-013-30517	14-20-H62-4631 11166	Ute	N/A	2312' FNL & 1058 FWL	SWNW, 27-2S-6W	Altamont	Duchesne	
Ute Tribal 1-28B6	43-013-30510	14-20-H62-4622 11165	Ute	N/A	860 FNL & 2381' FEL	NWNE, 28-2S-6W	Altamont	Duchesne	
Ute Tribal 1-33B6	43-013-30441	14-20-H62-2493 1230	Ute	N/A	350' FSL & 2400' FEL	SWSE, 33-2S-6W	Altamont	Duchesne	
Ute Tribal 1-35B6	43-013-30507	14-20-H62-4632 2335	Ute	N/A	1248' FEL & 1350' FSL	NESE, 35-2S-6W	Altamont	Duchesne	
OIL/GAS WELLS PERMITTED - NOT DRILLED									
Ute 1-16B6	43-013-31524	14-20-H62-4647 99999	Ute	N/A	2424' FNL & 1590' FEL	SWNE, 16-2S-6W	Altamont	Duchesne	
Ute 1-23B6	43-013-31446	14-20-H62-4614 99999	Ute	N/A	1894' FSL & 735' FWL	NWSW, 23-2S-6W	Altamont	Duchesne	
Ute 1-26B6	43-013-31447	14-20-H62-4614 99999	Ute	N/A	205' FNL & 2485' FWL	NENW, 26-2S-6W	Altamont	Duchesne	
Ute 2-26B6	43-013-31448	14-20-H62-4614 99999	Ute	N/A	663' FSL & 697' FWL	SWSW, 26-2S-6W	Altamont	Duchesne	
SALT WATER DISPOSAL WELLS									
Lake Fork 2-23B4 SWD	43-013-30038	Patented 1970	N/A	N/A	1985' FNL & 2131' FEL	SWNE, 23-2S-4W	Altamont	Duchesne	
LDS Church 2-27B5 SWD	43-013-30340	Fee 99990	N/A	N/A	551' FSL & 2556' FEL	SWSE, 27-2S-4W	Altamont	Duchesne	
Ehrich 2-11B5 SWD	43-013-30391	Fee 99990	N/A	N/A	1983' FSL & 1443' FWL	NESW, 11-2S-5W	Altamont	Duchesne	
Hanson 2-4B3 SWD	43-013-30337	Fee 99990	N/A	N/A	641' FSL & 1988' FWL	SESW, 4-2S-3W	Altamont	Duchesne	
Shell 2-27A4 SWD	43-013-30266	Fee 99990	N/A	96108 N/A	58' FSL & 1186' FWL	SWSW, 27-1S-4W	Altamont	Duchesne	COASTAL
Tew 1-9B5 SWD	43-013-30121	Patented 1675	N/A	N/A	2334' FNL & 1201' FEL	SENE, 9-2S-5W	Altamont	Duchesne	

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT - UIC FORM 5

Well name and number: Tew #1-9B5 SWD

Field or Unit name: Altamont API no. 43-013-30121

Well location: QQ SENE section 9 township 2S range 5W county Duchesne

Effective Date of Transfer: 12/27/95

CURRENT OPERATOR

Transfer approved by:

Name Bonnie Carson Company ANR Production Company

Signature Bonnie Carson Address P.O. Box 749

Title Sr. Environmental & Safety Analyst Denver, CO 80201-0749

Date 3/7/96 Phone (303) 573-4476

Comments:

NEW OPERATOR

Transfer approved by:

Name Sheila Bremer Company Coastal Oil & Gas Corporation

Signature Sheila Bremer Address P.O. Box 749

Title Environmental & Safety Analyst Denver, CO 80201-0749

Date 3/7/96 Phone (303) 573-4455

Comments:

(State use only)
Transfer approved by [signature] Title Environmental Manager

Approval Date 3-11-96

RECEIVED
MAR - 8 1996
OF OIL, GAS & MINING

(3/89)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing: GH

1-LEC 7-SJ	
2-DTS 8-FILE	
3-VLD	
4-RJF	
5-LEC	
6-FILM	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

[X] Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: **12-27-95**)

TO (new operator) **COASTAL OIL & GAS CORP**	FROM (former operator) **ANR PRODUCTION CO INC**
(address) **PO BOX 749**	(address) **PO BOX 749**
DENVER CO 80201-0749	**DENVER CO 80201-0749**
phone **(303)572-1121**	phone **(303)572-1121**
account no. **N 0230 (B)**	account no. **N0675**

Well(s) (attach additional page if needed):

Name: ****SEE ATTACHED****	API: 043-30171	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:
Name:	API:	Entity:	Sec	Twp	Rng	Lease Type:

OPERATOR CHANGE DOCUMENTATION

Lec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 3-8-96)

Lec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Rec'd 3-8-96)

N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.

N/A 4. **(For Indian and Federal Wells ONLY)** The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.

Lec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (3-11-96)(4-3-96/Indian)(4-15-96/Fee C.A.'s)(8-20-96/Indian C.A.'s)

Lec 6. Cardex file has been updated for each well listed above.

Lec 7. Well file labels have been updated for each well listed above.

C 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (3-11-96)

C 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

– OVER –

OPERATOR CHANGE WORKSHEET (CONTINUED) Initial each item when completed. Write N/A if item is not applicable.

ENTITY REVIEW

Lec 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ___ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).

N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) Surety No. U605382-1 ($80,000) United Pacific Ins. Co.

Lec 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.

___ 2. A copy of this form has been placed in the new and former operators' bond files. * Upon Compl. of routing.

Lec 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date March 11, 1996. If yes, division response was made by letter dated _____ 19___. (Same Bond as Coastal)

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

N/A 1. (Rule R615-2-10) The former operator/lessee of any **fee lease** well listed above has been notified by letter dated _____ 19___, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.

___ 2. Copies of documents have been sent to State Lands for changes involving **State leases.**

FILMING

VS 1. All attachments to this form have been microfilmed. Date: 1-7 1997.

FILING

___ 1. Copies of all attachments to this form have been filed in each well file.

___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

960311 This change involves Fee lease /non C.A. wells ~~only~~ & State lease wells.
~~C.A.'s & Indian lease wells will be handled on separate change.~~
960412 Blm/SL Aprv. C.A.'s 4-11-96.
960820 BIA Aprv. CA's 8-16-96.
960329 BIA Aprv. Indian Lease wells 3-26-96.
* 961107 Lemicq 2-5B2 / 43-013-30784 under review at this time; no chg. yet!

WE71/34-35

FORM 9

TE OF UTAH
DIVISION C. OIL, GAS AND MINING

5. Lease Designation and Serial Number: Patented

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name: N/A

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name: N/A

1. Type of Well: OIL ☐ GAS ☐ OTHER: SWD

8. Well Name and Number: Tew #1-9B5

2. Name of Operator: Coastal Oil & Gas Corporation

9. API Well Number: 43-013-30121

3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

10. Field and Pool, or Wildcat: Altamont/Bluebell

4. Location of Well

Footages: 2334' FNL & 1201' FEL County: Duchesne County

QQ, Sec., T., R., M.: SE/NE Section 9, T2S-R5W State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT
(Submit In Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recompletion
- ☐ Perforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☒ Other Conversion to SWD
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Perforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion '10/26/9

Report results of bMultiple CompletionsÇ and bRecompletionsÇ to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for operations performed on the subject well.

13.

Name & Signature: Bonnie Carson Title Bonnie Carson
Senior Environmental Analyst Date 03/20/97

(This space for State use only)

(5/94)

(See Instructions on Reverse Side)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

Tew #1-9B5
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

5/24 - 7/13/89 POOH w/GL equip. RIH w/7" csg scraper to 11,716'. Mill w/5" milling tool. Mill out pkr @ 12,100'. CO 5" liner to 15,072', set CIBP @ 13,480'. Spot 50 sxs Cl "G" on cmt plug. Found cmt top @ 13,473'. Spot add'l 75 sxs cmt. Found cmt top @ 13,462'. Pmp 75 add'l sxs cmt. Drill hard cmt to 13,260' (new PBTD). Set pkr @ 13,246'. Press tst to 2000 psi, held. Set RBP @ 11,519', inj rate in sqz perfs 10,121' - 11,483', 2.8 BPM. Set RBP @ 10,068'. Set CICR @ 5710'. Pmp 300 sxs Cl "G" Hyfill & 200 sxs neat between 9-5/8 X 7" annulus. Spot 200 sxs cmt across csg leak. Press tst sqz unsuccessful. Pmp 150 sxs Cl "G" cmt sqz to 3000 psi. Bradenhead 3000 sxs Cl "G" w/add into perfs 10,121' - 11,483'. Tag cmt top @ 9089'. DO cmt to 11,496'. Press tst sqz perfs to 2000 psi. Bled off 300 psi/5 min. then held. Rls RBP & POOH. Perf Wasatch from 11,757' - 13,240' (231 holes). Acdz Wasatch w/10,000 gals 15% HCl. ATP 7900 psi, AIR 13.5 BPM. Good diversion. RIH w/9 GL mandrels. Set pkr @ 10,456'.

TC: $193,000

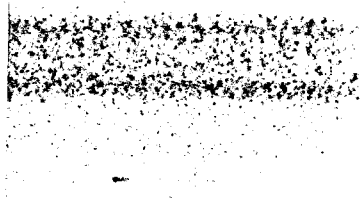
1/13 - 1/18/90 P&A. Set retainer @ 10,000'. Spot 75 sxs Cl "G" cmt on CICR from 10,000' - 9560'. Spot 70 sxs Cl "G" cmt plug from 5940' - 5500'.

TC: $23,421

7/19- 8/ /94 AFE to convert to SWD well. DO cement to 265'. Tag cmt @ 5568. do to 6058' & fell through. Press test to 2200 psi. Held. Tag at 9683'. Press test to 2200 psi held. POOH. RIH with ret and set @ 6330'. Shot sqz holes @ 6400' & 6060'. Sqz perfs @ 6060' & 6400' w/ 190 sxs 50/50 pozmix. Sqz did not hold. Sqz again with 300 sacks cmt. Press test to 2000 psi, held. Perf sqz holes @ 5640' & 5060'.Set retainer @ 5000'. Pump 220 sxs high fill & 50 sxs premium. Run CBL. Top of cmt @ 2930'. Perf @ 2925' & 2200'. DO cmt. to 5068'. Press test to 2025 psi: lost 300 psi/15 min. DO cmt to 5960. DO retainer @ 6330'. Fell through @ 6415'. RIH to 6435'. Press test to 2025 psi. ISIP: 1950, 15 min--1900 psi. Run CBL from 6500' to surf. Cmt top @ 400'. Shoot 4 sqz holes @ 395'. Circ 70 sks cmt to surf. DO cmt from 355' to 400'. Press tst to 2025 psi.5 min: 1975, 10 min: 1950, 15 min 1925. Run SCHLUMBERGER digital sonic & neutron from 8000' to surf. Run CBL from 600' to surf.

10/4- 10/26/94 Continue work from above. Perf 4206' to 6350'. RIH with 7" B-2 plug. Set plug at 6445' & set pkr @ 5886'. Swab perfs 5946 to 6350'. Recover 24 bbl prod wtr. ENTRY RATE 27BW/HR. shut well in.Set RBP @ 5889' & pkr @ 4087'. SWab perfs 4206' to 5822'. avg inflow 36 bbl/hr. Run injection test with bp @ 6445' & pkr @ 4087'. POOH with BP & Pkr. Set CIBP @ 6025 ' and spot 2 sxs cmt on top. Set Pkr @ 3629'. Press tst csg to 1000 psi. Held 15 min.. RIH with Amerada bomb. Run injection test.

TC: $309,332



COASTAL OIL & GAS CORPORATION
600 17TH STREET, SUITE 800S
DENVER, COLORADO 80201

DATE: 3/24/97

FACSIMILE TRANSMITTAL PAGE

THIS TRANSMISSION CONSISTS OF 3 PAGES (INCLUDING COVER)

TO: Don Staley

COMPANY/FIRM:

CITY/STATE:

FAX #: **CONFIRMATION #:**

FROM: Les Street

TELEPHONE #: 303/573-4486

INSTRUCTIONS:

IF YOU HAVE ANY TROUBLE RECEIVING THE ABOVE SPECIFIED PAGES, PLEASE NOTIFY SENDER.

TEW 1-9B5 43-013-30141

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

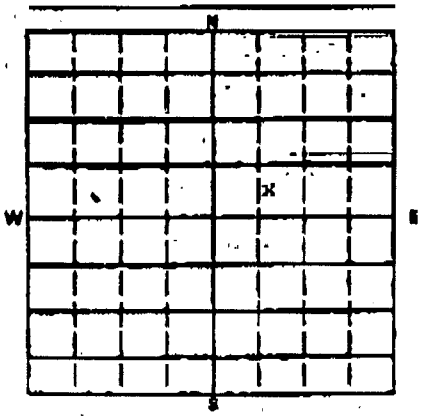
Form Approved
OMB No. 2040-0042
Approval expires 8-30-96

EPA COMPLETION REPORT FOR BRINE DISPOSAL, HYDROCARBON STORAGE, OR ENHANCED RECOVERY WELL

NAME AND ADDRESS OF EXISTING PERMITTEE
ANR Production Company
P. O. Box 749
Denver, Colorado 80201

NAME AND ADDRESS OF SURFACE OWNER
William Frederick Tew Family Ltd Partnership
Star Route 120
Talmage, Utah 84073

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
Utah	Duchesne	UT2722-03788

SURFACE LOCATION DESCRIPTION
¼ OF SE ¼ OF NE ¼ SECTION 9 TOWNSHIP 2S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 2334 ft. from (N/S) N Line of quarter section
and 1201 ft. from (E/W) E Line of quarter section

WELL ACTIVITY
- ☒ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

TYPE OF PERMIT
- ☒ Individual
- ☐ Area
  Number of Wells ____

Estimated Fracture Pressure of Injection Zone

Anticipated Daily Injection Volume (Bbls)		Injection Interval	
Average	Maximum	Feet	to Feet
10,000	15,000	4206	5952
Anticipated Daily Injection Pressure (PSI)		**Depth to Bottom of Lowermost Freshwater Formation (Feet)**	
Average	Maximum		
500	1,100	None	

Type of Injection Fluid (Check the appropriate block(s))
- ☐ Salt Water
- ☒ Brackish Water
- ☐ Fresh Water
- ☐ Liquid Hydrocarbon
- ☐ Other

Lease Name: Tew **Well Number:** 1-9B5 SWD

Name of Injection Zone: Uinta /UGR (TGR1)

Permeability of Injection Zone:

Porosity of Injection Zone:

Date Drilling Began	Date Well Completed	Date Drilling Completed
7/19/94 (Re-entry)	10/26/94	10/7/72 (orig), 1/18/90 (P&A)

CASING AND TUBING / CEMENT / HOLE

OD Size	Wt/Ft — Grade — New or Used	Depth	Sacks	Class	Depth	Bit Diameter
13-3/8"	68# - K-55 - New	351'	700	G	surface	17-1/2"
9-5/8"	40# - K-55/N-80 - New	5841'	1300	G & Lite	surface	12-1/4"
7"	29# - S-95/P-110 - New	11999'	400	G & Lite	9961'	8-3/4"
			830*	G & Lite	6500' - sfc	8-3/4"
			*Squeeze of 7" casing for isolation of injection interval.			

INJECTION ZONE STIMULATION / WIRE LINE LOGS, LIST EACH TYPE

Interval Treated	Materials and Amount Used	Log Types	Logged Intervals
4206 - 5952'	None	GR/CBL	surface - 6560'
		SDT/CNL/GR	surface - 8000'

Complete Attachments A — G listed on the reverse.

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32).

NAME AND OFFICIAL TITLE (Please type or print)		DATE SIGNED
Marc D. Ernest Production Superintendent	Marc D. Ernest	1/10/95

Tew 1-9B5

43-013-30121

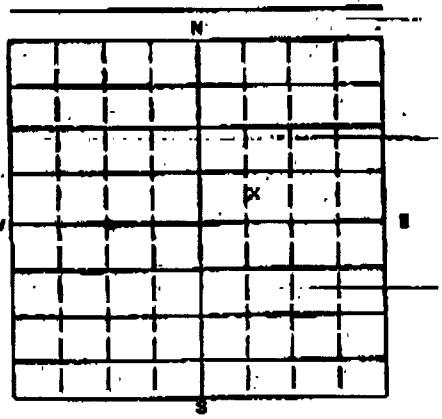
WASHINGTON, DC 20460

EPA WELL REWORK RECORD

NAME AND ADDRESS OF PERMITTEE
ANR Production Company
P. O. Box 749
Denver, Colorado 80201

NAME AND ADDRESS OF CONTRACTOR
Western Oil Well Service
P. O. Box 1515
Roosevelt, Utah 84066

LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES



STATE	COUNTY	PERMIT NUMBER
Utah	Duchesne	UT2722-03788

SURFACE LOCATION DESCRIPTION
¼ OF SE ¼ OF NE ¼ SECTION 9 TOWNSHIP 2S RANGE 5W

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
Surface Location 2334' ft. from (N/S) N Line of quarter section
1201' ft. from (E/W) E Line of quarter section

WELL ACTIVITY
- ☒ Brine Disposal
- ☐ Enhanced Recovery
- ☐ Hydrocarbon Storage

Lease Name
Tew

Total Depth Before Rework
15337'(orig-10/7/72)

Total Depth After Rework
6017'(Re-entry)

Date Rework Commenced
7/19/94

Date Rework Completed
10/26/94

TYPE OF PERMIT
- ☒ Individual
- ☐ Area

Number of Wells ____

Well Number
1-9B5 SWD

WELL CASING RECORD — BEFORE REWORK

Casing Size	Casing Depth	Cement Sacks	Cement Type	Perforations From	Perforations To	Acid or Fracture Treatment Record
13-3/8"	351'	700	G	---	---	---
9-5/8"	5841'	1300	G & Lite	---	---	---
7"	11999'	400	G & Lite	10121'	11483'	See State history.
5"	11716-15270'	701	G & Lite	10757'	15128'	See State history.

WELL CASING RECORD — AFTER REWORK *(Indicate Additions and Changes Only)*

Casing Size	Casing Depth	Cement Sacks	Cement Type	Perforations From	Perforations To	Acid or Fracture Treatment Record
7"	11999'	830	G & Lite	4206'	5952'	None.
				6052'	6350'	Isolated w/CIBP.

DESCRIBE REWORK OPERATIONS IN DETAIL. USE ADDITIONAL SHEETS IF NECESSARY
Re-entered P&A'd well (1/18/90) and converted to SWD in the Uinta/UGR @ 4206-5952' on 10/26/94.

WIRE LINE LOGS, LIST EACH TYPE

Log Types	Logged Intervals
GR-CBL	surface - 6560'
SDT/CNL/GR	surface - 8000'

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
Marc D. Ernest Production Superintendent	Marc D. Ernest	1/10/95

EPA Form 7520-12 (2-84) UIC Permit No. UT2722-03788

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: Tew 1-9B5 SWD API Number: 43-013-30121

Qtr/Qtr: _____ Section: 9 Township: 2S Range: 5W

Company Name: COASTAL O.C & GAS

Lease: State _____ Fee _____ Federal _____ Indian _____

Inspector: Dennis Ingram Date: 02/03/2000

Initial Conditions:

Tubing - Rate: _____ Pressure: 825 psi

Casing/Tubing Annulus - Pressure: 0 psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
0	1000 PSI	825
5	995	
10	990	
15	985	
20	980	
25	975	
30	960 PSI	825

Results: Pass/Fail

Conditions After Test:

Tubing Pressure: 825 psi

Casing/Tubing Annulus Pressure: _____ psi

COMMENTS: Injecting During Test. TEST WAS @ 10:30 AM W/ Hot O.C Truck.

Operator Representative

Mechanical Integrity Test
Casing or Annulus Pressure Test

U.S. Enviromental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: Not Present **Date** 2 / 3 / 00 **Time** 10:00 am **am/pm**

Test conducted by: Dennis Ingrim UTDOGM

Others present: Bill McGaughey/Rocky Meacham

Well: TEW #1-9B5	**Well ID:** UT2722-03788
Field: Altamont	**Company:** Coastal Oil & Gas Corporation
Well Location: SENE Sec.9,T2S,R5W	**Address:** P.O. Box 1148 Vernal, Utah 84078

Time	Test #1	Test #2	Test #3
0 min	1000 psig	_____ psig	_____ psig
5	995	_____	_____
10	990	_____	_____
15	785	_____	_____
20	980	_____	_____
25	975	_____	_____
30 min	960	_____	_____
35	_____	_____	_____
40	_____	_____	_____
45	_____	_____	_____
50	_____	_____	_____
55	_____	_____	_____
60 min	_____	_____	_____
Tubing press	825 psig	_____ psig	_____ psig
Result	(Pass) Fail	Pass Fail	Pass Fail

Signature of EPA Witness: Contacted Jafari Bahramon on 2/2/00

See back of page for any additional comments & compliance followup.

This is the front side of two sides

Coastal
The Energy People

February 14, 2000

VIA FAX & MAIL

Mr. Dan Jackson
US Environmental Protection Agency
UIC Implementation Section 8ENF-T
999 18th Street Suite #500
Denver, Colorado 80202-2405

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas & Mining
1594 West North Temple, Suite #1210
Salt Lake City, Utah 84114

TEW #1-9B5
SENE Sec.9,T9S,R5W
EPA No. UT2722-03788
Altamont Field
Duchesne County, Utah

Ute #1
NWNW Sec.18,T3S,R6W
EPA No. On File
Altamont Field
Duchesne County, Utah

Allred #2-16A3
NENE Sec.16,T1S,R3W
EPA No. UT2651
Altamont Field
Duchesne County, Utah

Lindsay Russell #2-32B4
NENE Sec.32,T2S,R4W
EPA No.UT2658-02558
Altamont Field
Duchesne County, Utah

Attention Dan Jackson & Dan Jarvis:

Please find attached the MIT Annulus Pressure Monitoring results for the above referenced well.

Coastal Oil & Gas Corporation believes that the wells are performing normally and require no further work to remain functionally sound and Coastal intends to continue current injection activity.

Please review the attached monitoring results and provide us with your comments ASAP. If you have any questions, please do not hesitate to call me @ (435)-781-7023.

Sincerely,

Cheryl Cameron
Environmental Analyst

Attachments
CC: Bill McGaughey

Coastal Oil & Gas Corporation
A SUBSIDIARY OF THE COASTAL CORPORATION
1368 S 1200 E • PO BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

Coastal
The Energy People

April 25, 2000

Mr. Bahram Jafari
8ENF-T
U. S. EPA
Region VIII
999 18th Street, Suite 500
Denver, CO 80202-2466

43-013-30121
Sec. 9, 2S, 5W

Re: Well: TEW # 1-9-B5
Well ID: UT 2722-03788
Field: Altamont

Dear Mr. Jafari:

Per conditions described in the permit identified above, please find results for the mechanical integrity test (MIT) recently performed on the above referenced well. As data enclosed indicates, this well attained a "pass" performance for the MIT.

If you have questions, you may contact me at (435)781-7048.

Sincerely,

Deborah A. Harris

Deborah A. Harris, PG
Environmental Geologist

Cc: Dan Jarvis, UDOGM
Bill McGaughey
BLM-Vernal
WF-Vernal

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Coastal Oil & Gas Corporation
A SUBSIDIARY OF THE COASTAL CORPORATION
1368 S 1200 E • PO BOX 1148 • VERNAL UT 84078 • 435/789-4433 • FAX 435/789-4436

Mechanical Integrity Test
Casing or Annulus Pressure Test

U.S. Enviromental Protection Agency
Underground Injection Control Program, UIC Implementation Section, 8WM-DW
999 18th Street, Suite 500, Denver, CO 80202-2466

EPA Witness: Cecil Bayram Jafari / Corn Peacock Nathan Wiser Date 04/18/00 Time 11:40 (am) pm

Test conducted by: Duwayne Davies,

Others present: Dale Christsen, Duwayne Davies, D. II McGaughey

Well: Tew 1-9-B5	Well ID: UT2722-03788
Field: Altamont	Company: Coastal Oil & Gas Corporation
Well Location: SE/NE Sec. 9, T2S, R5W	Address: P.O. Box 1148 Vernal, UTAH 84078

Time	Test #1	Test #2	Test #3
0 min	800 psig	____ psig	____ psig
5	780-790		
10	780		
15	760-780		
20	760		
25	740-760		
30 min	740-760/745		
35			
40			
45			
50			
55			
60 min			
Tubing press	0 Start / 0 end psig	____ psig	____ psig
Result	(Pass) Fail	Pass Fail	Pass Fail

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APR 24 2000
DIVISION OF OIL, GAS AND MINING

Signature of EPA Witness: Nathan M. Wiser

See back of page for any additional comments & compliance followup.

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OCT

MISSING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
EXHIBIT "A"	
Location of Well	**Field or Unit Name**
Footage : [redacted] County : [redacted]	
QQ, Section, Township, Range: [redacted] State : UTAH	**Lease Designation and Number**

EFFECTIVE DATE OF TRANSFER: 03-09-01

CURRENT OPERATOR

Company: Coastal Oil & Gas Corporation
Address: 1368 South 1200 East
city Vernal state UT zip 84078
Phone: 435-789-4433

Name: John T. Elzner
Signature: [signature]
Title: Vice President
Date: 06-15-01

Comments: As a result of the merger between The Coastal Corporation and a wholly owned subsidary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.
See EXHIBIT "A"

NEW OPERATOR

Company: El Paso Production Oil & Gas Company
Address: 1368 South 1200 East
city Vernal state UT zip 84078
Phone: 435-789-4433

Name: John T. Elzner
Signature: [signature]
Title: Vice President
Date: 06-15-01

Comments: NAME CHANGE

Bond Number 400JU0708

(This space for State use only)

Transfer approved by: [signature]
Title: Tech. Services Manager

Approval Date: 6-21-01

Comments: Exhibit A as revised.

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JUN 19 2001
DIVISION OF
OIL, GAS AND MINING

(5/2000)

EXHIBIT "A"

NAME CHANGE FROM COASTAL OIL & GAS CORPORATION TO EL PASO PRODUCTION OIL & GAS COMPANY

API Well No.	Well Name	Well Status	Well Type	Location(T-R)	Section
43-013-30361-00-00	ALLRED 2-16A3	Active Well	Water Disposal	1S-3W	16
43-013-30370-00-00	UTE TRIBAL 1-25A3	Producing Well	Oil Well	1S-3W	25
43-013-30362-00-00	BIRCH 2-35A5	Active Well	Water Disposal	1S-5W	35
43-013-30337-00-00	G HANSON 2-4B3 SWD	Active Well	Water Disposal	2S-3W	4
43-013-30038-00-00	LAKE FORK 2-23B4	Active Well	Water Disposal	2S-4W	23
43-013-30371-00-00	LINDSAY RUSSELL 2-32B4	Active Well	Water Disposal	2S-4W	32
43-013-30121-00-00	TEW 1-9B5	Active Well	Water Disposal	2S-5W	9
43-013-30391-00-00	EHRICH 2-11B5	Active Well	Water Disposal	2S-5W	11
43-013-30340-00-00	LDS CHURCH 2-27B5	Active Well	Water Disposal	2S-5W	27
43-013-30289-00-00	RHOADES MOON 1-36B5	Shut_In	Oil Well	2S-5W	36
43-013-30056-00-00	UTE 1-14C6	Active Well	Water Disposal	3S-6W	14
43-047-33597-00-00	NBU SWD 2-16	Spudded (Drilling commenced: Not yet completed)	Water Disposal	10S-21E	16
43-047-32344-00-00	NBU 205	Shut_In	Gas Well	10S-22E	9
43-047-15880-00-00	SOUTHMAN CANYON U 3	Active Well	Water Disposal	10S-23E	15
43-047-31822-00-00	UTE 26-1		Water Disposal	4S-1E	26
43-047-32784-00-00	STIRRUP STATE 32-6	Active Well	Water Injection	6S-21E	32
43-047-30359-00-00	NBU 21-20B	Active Well	Water Disposal	9S-20E	20
43-047-33449-00-00	OURAY SWD 1	Approved permit (APD); not yet spudded	Water Disposal	9S-21E	1
43-047-31996-00-00	NBU 159	Active Well	Water Disposal	9S-21E	35

State of Delaware

Office of the Secretary of State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

0610204 8100

010162788

AUTHENTICATION: 1061007

DATE: 04-03-01

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION

David L. Siddall
Vice President

Attest:

Margaret E. Roark, Assistant Secretary

RECEIVED

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 11:00 AM 03/09/2001
010118394 – 0610204

JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

State of Delaware

Office of the Secretary of State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "COASTAL OIL & GAS CORPORATION", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "EL PASO PRODUCTION OIL & GAS COMPANY", THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

Harriet Smith Windsor, Secretary of State

0610204 8320

010202983

AUTHENTICATION: 1103213

DATE: 04-27-01

EL PASO PRODUCTION OIL & GAS COMPANY

CERTIFICATE OF INCUMBENCY

I, Margaret E. Roark, do hereby certify that I am a duly elected, qualified and acting Assistant Secretary of EL PASO PRODUCTION OIL & GAS COMPANY, a Delaware corporation (the "Company"), and that, as such, have the custody of the corporate records and seal of said Company; and

I do hereby further certify that the persons listed on the attached Exhibit A have been elected, qualified and are now acting in the capacities indicated, as of the date of this Certificate.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of El Paso Production Oil & Gas Company this 18th day of April 2001.

Margaret E. Roark

Margaret E. Roark, Assistant Secretary

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: Exhibit "A"

2. NAME OF OPERATOR: El Paso Production Oil & Gas Company

9. API NUMBER:

3. ADDRESS OF OPERATOR: 368 South 1200 East CITY Vernal STATE Utah ZIP 84078

PHONE NUMBER: 435-789-4433

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☒ OTHER: Name Change
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation

NAME (PLEASE PRINT) John T. Elzner TITLE Vice President

SIGNATURE _____ DATE 06-15-01

El Paso Production Oil & Gas Company

NAME (PLEASE PRINT) John T. Elzner TITLE Vice President

SIGNATURE _____ DATE 06-15-01

(This space for State use only)

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JUN 19 2001

DIVISION OF
OIL, GAS AND MINING

(5/2000)

(See Instructions on Reverse Side)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING		
1. GLH		4-KAS ✓
2. CDW		5-LP ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold) — Designation of Agent

Operator Name Change (Only) — **X** **Merger**

The operator of the well(s) listed below has changed, effective: **3-09-2001**

FROM: (Old Operator):
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

TO: (New Operator):
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

CA No. **Unit:**

WELL(S)

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
ALLRED 2-16A3	43-013-30361	99996	16-01S-03W	FEE	WD	A
BIRCH 2-35A5	43-013-30362	99996	35-01S-05W	FEE	WD	A
G HANSON 2-4B3 SWD	43-013-30337	99990	04-02S-03W	FEE	WD	A
LAKE FORK 2-23B4	43-013-30038	1970	23-02S-04W	FEE	WD	A
LINDSAY RUSSELL 2-32B4	43-013-30371	99996	32-02S-04W	FEE	WD	A
TEW 1-9B5	43-013-30121	1675	09-02S-05W	FEE	WD	A
EHRICH 2-11B5	43-013-30391	99990	11-02S-05W	FEE	WD	A
LDS CHURCH 2-27B5	43-013-30340	99990	27-02S-05W	FEE	WD	A
UTE 1-14C6	43-013-30056	12354	14-03S-06W	INDIAN	WD	A
SOUTHMAN CANYON U 3	43-047-15880	99990	15-10S-23E	FEDERAL	WD	A
STIRRUP STATE 32-6 (HORSESHOE BEND UNIT)	43-047-32784	12323	32-06S-21E	STATE	WIW	A
NBU 21-20B (NATURAL BUTTES UNIT)	43-047-30359	2900	20-09S-20E	FEDERAL	WD	A
NBU 159 (NATURAL BUTTES UNIT)	43-047-31996	2900	35-09S-21E	FEDERAL	WD	A

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database on:** 06/21/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A

6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A

7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A

8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A

9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 06/21/2001

2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 06/21/2001

3. Bond information entered in RBDMS on: 06/20/2001

4. Fee wells attached to bond in RBDMS on: 06/21/2001

STATE BOND VERIFICATION:

1. State well(s) covered by Bond No.: 400JU0705

FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 400JU0708

2. The **FORMER** operator has requested a release of liability from their bond on: COMPLETION OF OPERATOR CHANGE
   The Division sent response by letter on: N/A

3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: COMPLETION OF OPERATOR CHANGE

FILMING:

1. All attachments to this form have been **MICROFILMED** on: 7.26.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS: Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

INSPECTION FORM 6

STATE OF UTAH
DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: TEW 1-9B5 SWD API Number: 43 013 30121
Qtr/Qtr: _____ Section: 9 Township: 2S Range: 5W
Company Name: El Paso production

Lease: State _____ Fee _____ Federal _____ Indian _____
Inspector: Richard Powell Date: 9/15/05

Initial Conditions:

Tubing - Rate: 12864 (BPD) Pressure: 460 psi

Casing/Tubing Annulus - Pressure: Ø psi

Conditions During Test:

Time (Minutes)	Annulus Pressure	Tubing Pressure
12:00 pm 0	1000	460
5	1000	460
10	1000	460
15	1000	460
20	1000	40
25	1000	40
30	1000	40

Results: (Pass)/Fail

Conditions After Test:

Tubing Pressure: 40 psi

Casing/Tubing Annulus Pressure: 0 psi

COMMENTS: _____

R Lane Wall
Operator Representative

SEP 20 2005

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold) **X Operator Name Change**

The operator of the well(s) listed below has changed, effective: **7/1/2006**

FROM: (Old Operator):	**TO:** (New Operator):
N1845-El Paso Production O&G Company	N3065-El Paso E&P Company, LP
1001 Louisiana Street	1001 Louisiana Street
Houston, TX 77002	Houston, TX 77002
Phone: 1 (713) 420-2300	Phone: 1 (713) 420-2131
CA No.	**Unit:**

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/5/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/5/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 3/30/2006
4. Is the new operator registered in the State of Utah: YES Business Number: 2114377-0181
5. If **NO**, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: requested 7/18/06

6b. Inspections of LA PA state/fee well sites complete on: ok

6c. Reports current for Production/Disposition & Sundries on:

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
8. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
9. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/14/2006

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 7/19/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 7/19/2006
3. Bond information entered in RBDMS on: 7/19/2006
4. Fee/State wells attached to bond in RBDMS on: 7/19/2006
5. Injection Projects to new operator in RBDMS on: 7/19/2006
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 7/5/2006

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 400JU0708

a. The **FORMER** operator has requested a release of liability from their bond on: n/a applicable wells moved

The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/20/2006

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: MULTIPLE LEASES

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: SEE ATTACHED

2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY N1845

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113

PHONE NUMBER: (505) 344-9380

10. FIELD AND POOL, OR WILDCAT: SEE ATTACHED

4. LOCATION OF WELL

FOOTAGES AT SURFACE: SEE ATTACHED

COUNTY: UINTAH & DUCHESNE

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: CHANGE OF OPERATOR
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PLEASE BE ADVISED THAT EL PASO PRODUCTION OIL AND GAS COMPANY (CURRENT OPERATOR) HAS TRANSFERRED ITS OPERATORSHIP TO EL PASO E&P COMPANY, L.P. (NEW OPERATOR) EFFECTIVE ~~JUNE 30~~, July 1, 2006 AND THAT EL PASO E&P COMPANY, L.P. IS CONSIDERED TO BE THE NEW OPERATOR OF THE ATTACHED WELL LOCATIONS.

EL PASO E&P COMPANY, L.P. IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASED LANDS. BOND COVERAGE IS PROVIDED BY THE STATE OF UTAH STATEWIDE BLANKET BOND NO. 400JU0705, BUREAU OF LAND MANAGEMENT NATIONWIDE BOND NO. 103601420, AND BUREAU OF INDIAN AFFAIRS NATIONWIDE BOND NO. 103601473.

El Paso E & P Company, L. P. N3065
1001 Louisiana
Houston, TX 77002

William M. Griffin
William M. Griffin, Sr. Vice President

NAME (PLEASE PRINT) CHERYL CAMERON TITLE AUTHORIZED REGULATORY AGENT

SIGNATURE Cheryl Cameron DATE 6/20/2006

(This space for State use only)

APPROVED 7/19/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUL 05 2006
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
TEW 1-9B5	4301330121
Location of Well	Field or Unit Name
Footage : 2334' FNL, 1201' FEL County : DUCHESNE	ALTAMONT/BLUEBELL
QQ, Section, Township, Range: SENE 9 2S 5W State : UTAH	Lease Designation and Number FEE

EFFECTIVE DATE OF TRANSFER: 6/30/2006

CURRENT OPERATOR

Company: EL PASO PRODUCTION OIL & GAS COMPANY
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9280
Comments:

Name: CHERYL CAMERON
Signature: Cheryl Cameron
Title: REGULATORY ANALYST
Date: 6/6/2006

NEW OPERATOR

Company: EL PASO E&P COMPANY, L.P.
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

Name: CHERYL CAMERON
Signature: Cheryl Cameron
Title: REGULATORY ANALYST
Date: 6/6/2006

(This space for State use only)

Transfer approved by: Dan Jarvis
Title: Geologist

Approval Date: 7/14/06

Comments:

(5/2000)

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **6/1/2012**

FROM: (Old Operator):	**TO:** (New Operator):
N3065- El Paso E&P Company, L.P.	N3850- EP Energy E&P Company, L.P.
1001 Louisiana Street	1001 Louisiana Street
Houston, TX. 77002	Houston, TX. 77002
Phone: 1 (713) 997-5038	Phone: 1 (713) 997-5038

CA No. **Unit:** N/A

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 6/27/2012
4a. Is the new operator registered in the State of Utah: _____ Business Number: 2114377-0181
5a. (R649-9-2)Waste Management Plan has been received on: Yes
5b. Inspections of LA PA state/fee well sites complete on: N/A
5c. Reports current for Production/Disposition & Sundries on: 6/25/2012
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/12/2012

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 9/24/2102
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 9/24/2012
3. Bond information entered in RBDMS on: 9/24/2012
4. Fee/State wells attached to bond in RBDMS on: 9/24/2012
5. Injection Projects to new operator in RBDMS on: 9/24/2012
6. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 103601420
2. Indian well(s) covered by Bond Number: 103601473
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 9/24/2012

COMMENTS:

Well Name	Sec	TWP	RNG	API Number	Enity Number	Lease	Well Tyoe	Well Status
UTE 1-14C6	14	030S	060W	4301330056	12354	Indian	WD	A
UTE TRIBAL 1-A	18	030S	060W	4301315122	99990	Fee	WD	A
LAKE FORK 2-23B4	23	020S	040W	4301330038	1970	Fee	WD	A
TEW 1-9B5	09	020S	050W	4301330121	1675	Fee	WD	A
RHOADES MOON 1-36B5	36	020S	050W	4301330289	4765	Fee	WD	A
G HANSON 2-4B3 SWD	04	020S	030W	4301330337	99990	Fee	WD	A
LDS CHURCH 2-27B5	27	020S	050W	4301330340	99990	Fee	WD	A
LINDSAY RUSSELL 2-32B4	32	020S	040W	4301330371	99996	Fee	WD	A
EHRICH 2-11B5	11	020S	050W	4301330391	99990	Fee	WD	A
LAWSON 1-21A1	21	010S	010W	4301330738	935	Fee	WI	A
DAVIS 1-33A1E	33	010S	010E	4304730384	805	Fee	WD	A
ALLRED 2-16A3	16	010S	030W	4301330361	99996	Fee	WD	I
BIRCH 2-35A5	35	010S	050W	4301330362	99996	Fee	WD	I

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☑ GAS WELL ☐ OTHER

8. WELL NAME and NUMBER: See Attached

2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez

9. API NUMBER:

3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER: (713) 997-5038

10. FIELD AND POOL, OR WILDCAT: See Attached

4. LOCATION OF WELL

FOOTAGES AT SURFACE: See Attached

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Change of Name/Operator
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

Frank W. Falleri
Vice President
El Paso E&P Company, L.P.

Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez DATE 6/22/2012

(This space for State use only)

APPROVED

SEP 24 2012

DIV. OIL GAS & MINING

Rachel Medina

(See Instructions on Reverse Side)

RECEIVED

JUN 25 2012

DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number	API Number
Tew 1-9B5	4301330121
Location of Well	Field or Unit Name
Footage : 2334' FNL & 1201' FEL County : Duchesne	Altamont/Bluebell
QQ, Section, Township, Range: SENE 9 2S 5W State : UTAH	Lease Designation and Number: Fee

EFFECTIVE DATE OF TRANSFER: 6/1/2012

CURRENT OPERATOR

Company: El Paso E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: Maria S. Gomez
Title: Principal Regulatory Analyst
Date: 9/11/2012

NEW OPERATOR

Company: EP Energy E&P Company, L.P.
Address: 1001 Louisiana
city Houston state TX zip 77002
Phone: (713) 997-5038
Comments:

Name: Maria S. Gomez
Signature: Maria S. Gomez
Title: Principal Regulatory Analyst
Date: 9/11/2012

(This space for State use only)

Transfer approved by: [signature]
Title: UIC Geologist

Approval Date: 9/19/2012

Comments:

RECEIVED
SEP 12 2012
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
Water Disposal Well

8. WELL NAME and NUMBER:
TEW 1-9B5

2. NAME OF OPERATOR:
EP ENERGY E&P COMPANY, L.P.

9. API NUMBER:
43013301210000

3. ADDRESS OF OPERATOR:
1001 Louisiana , Houston, TX, 77002

PHONE NUMBER:
713 997-5038 Ext

9. FIELD and POOL or WILDCAT:
ALTAMONT

4. LOCATION OF WELL
FOOTAGES AT SURFACE:
2334 FNL 1201 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SENE Section: 09 Township: 02.0S Range: 05.0W Meridian: U

COUNTY:
DUCHESNE

STATE:
UTAH

11.
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/6/2014	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: MIT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Pressure test to 1000 psi.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: November 06, 2014

By: Dark K Quist

Please Review Attached Conditions of Approval

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Maria S. Gomez	713 997-5038	Principal Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/6/2014

RECEIVED: Nov. 06, 2014

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013301210000

Coordinate with Dennis Ingram on timing and witnessing of test.

Chart test and send in with subsequent report. Indicate packer setting depth on report.

RECEIVED: Nov. 06, 2014