FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned .....
Card Indexed ✓

Checked by Chief
Approval Letter 8-3-70
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 1-24-71
Location Inspected .....

OW..... WW..... TA.....
GW..... OS..... PA.....

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log 3-26-71

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....

Sec. 3 SW¼NE¼ 1468' FNL 1503' FEL	2S	4W	1-03-B4		4,686	0	0	31	otherson Lease production estimated at head Fee Land
Sec. 11 N½S½NE¼ 1520' FNL	2S	4W	1-11-B4	-	-	-	-	-	Brotherson Lease Drilling Depth 10,812' Fee Land

2

Form DOGC-1a

SUBMIT IN [illegible]LICATE*
(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

5. Lease Designation and Serial No.: Patented

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name: Brotherson et al (Unit)

b. Type of Well: Oil Well [x] Gas Well [ ] Other — Single Zone [x] Multiple Zone [ ]

8. Farm or Lease Name: W. N. Brotherson, Jr.

2. Name of Operator: Shell Oil Company (Rocky Mountain Division Production)

9. Well No.: 1-3

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

10. Field and Pool, or Wildcat: Altamont

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1468' FNL and 1503' FEL and 266' from center of NE/4 Section 3.
At proposed prod. zone: NESWNE

11. Sec., T., R., M., or Blk. and Survey or Area: NW/4 NE/4 Section 3-T2S-R4W

14. Distance in miles and direction from nearest town or post office*: approx. 2 miles SW of Altamont

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): 1468 (FNL)

16. No. of acres in lease: 90 acres*

17. No. of acres assigned to this well: 630

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: 0

19. Proposed depth: 14,000

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): est. 6305 GL

22. Approx. date work will start*: August 10, 1970

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.**

Note: Location exceeds 220' tolerance as specified in the spacing order for the Altamont Field. Exception required because of irrigation ditch on the east side of the NW/4 NE/4 Section 3. Location layout as shown on attached plat requires that this 220' tolerance limitation be exceeded by 46' in order to secure proper location layout for rig. Request Administrative approval for planned location due to topographical reasons.

* 50.31 acre portion of base lease to be included in 630 acres spacing unit plan for well. Spacing will be all of Section 3-T2S-R4W.

** Official survey plat will follow.

cc: United States Geological Survey w/attachments

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 Jack W Moore for Title Division Petroleum Engineer Date July 31, 1970

(This space for Federal or State office use)

Permit No. 43-013-30048 Approval Date

Approved by Title Date

Conditions of approval, if any:

10

*See Instructions On Reverse Side

M 51 (6-69)

DRILLING WELL PROGNOSIS

SHELL-TENNECO

WELL NAME BROTHERSON et al UNIT 1-3

TYPE WELL DEVELOPMENT

FIELD / ~~AREA~~ ALTAMONT

APPROX. LOCATION (SUBJECT TO SURVEY) 1500' FNL 1450' FEL SEC 3-T2S-R4W DUCHESNE CO UTAH
1468' 1505'

EST. G.L. ELEVATION 6305' PROJECTED TO 14,000' OBJECTIVE GREEN RIVER-WASATCH

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
	26" — CONDUCTOR			40'±	
24"	20" — IF NECESSARY			200'±	
17½"	13⅜"		2°	1100'±	
		IES, INT.-GR-BHC-SONIC, FDC, PROX-ML, DIPMETER, 2 MAN MUD LOGGING UNIT	1°/1000' MAXIMUM RATE OF BUILDUP (BOTTOM HOLE TARGET 220' FROM CENTER OF NE/4)	GREEN RIVER ZONE 1 5617 (706) ZONE 2 8294 (-1971) ZONE 3 9705 (-3382) TRANS. GR-WASATCH 11,280' (-4957) 11,300'±	SAMPLES: 30' FROM SFC. TO 5000' 10' FROM 5000' TO T.D. CORES: 3-60' CORES BETWEEN 8000' AND 14,000' DST'S: 6 DST'S BETWEEN 6000' AND 14,000' DEVIATION CONTROL DOGLEG SEVERITY NOT TO EXCEED 1½°/100' INTERVAL CEMENT SEE "DRILLING PROGNOSIS" FOR DETAILS MUD SEE "DRILLING PROGNOSIS" FOR DETAILS GENERAL SFC - 5500' WATER 5500' - 11,300' LOW SOLIDS 11,300' - TD WEIGHTED MUD
12¼"	9⅝"	BOREHOLE TELEVIEWER 5000'±			
8⅜"	7"			14,000'	

ORIGINATOR DES DATE 7/6/70

ENGINEERING APPROVAL:

EXPLOITATION 7/27/70

OPERATIONS APPROVAL:

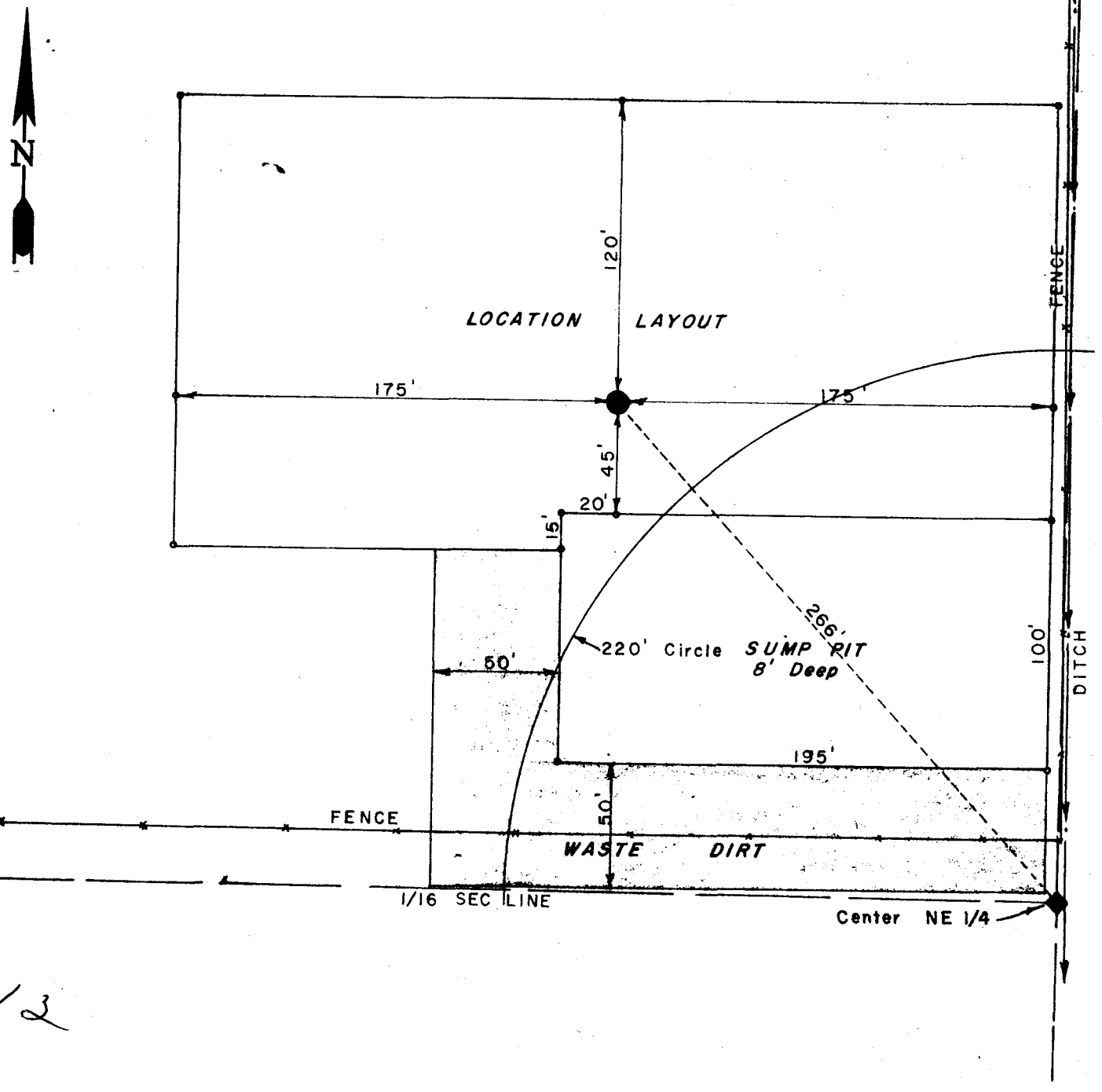
SHELL - TENNECO - BROTHERSON Etal #1-3

LOCATION WILL HAVE TO BE APPROX 1468' FNL & 1503' FEL.
266' FROM CENTER OF NE1/4

CERTIFIED AS CORRECT

N. Montgomery

Division Drilling Superintendent



12

SHELL OIL COMPANY

1700 BROADWAY
DENVER, COLORADO 80202

August 5, 1970

Subject: Official Survey Plat
Altamont Field
Brotherson et al Unit
Brotherson 1-3
NW/4 NE/4 Section 3-T2S-R4W, USB&B
Duchesne County, Utah

Utah Oil and Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Attention Mr. Cleon Feight

Gentlemen:

Pursuant to our request for permit to drill dated July 31, 1970, please find attached copies of official survey plat.

Yours very truly,

J. C. Howell

For: R. A. Flohr
Division Production Manager
Rocky Mountain Division

Attachments

cc: United States Geological Survey (w/attachments)

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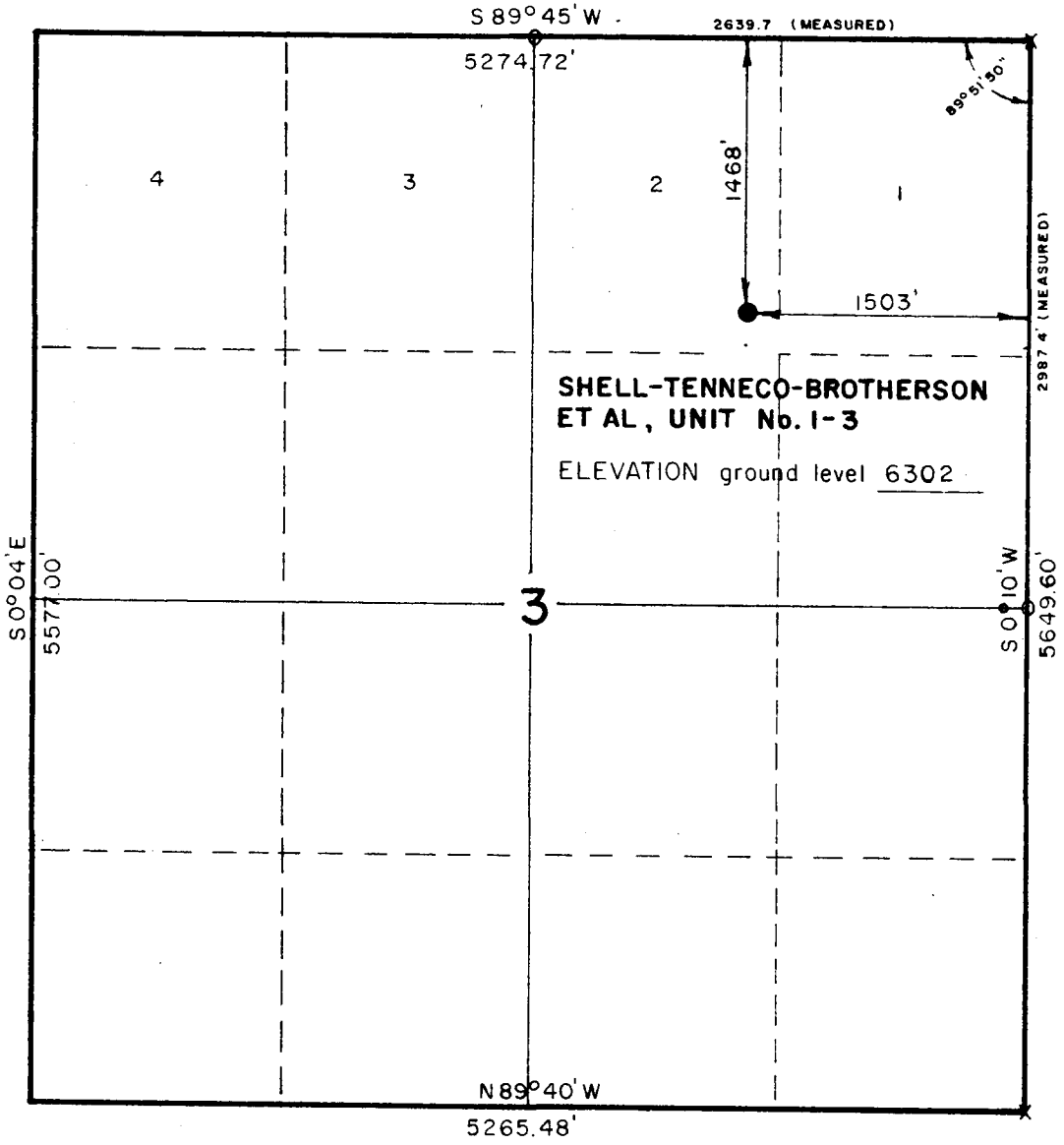
T 2 S, R 4 W, USB & M



X = Corners Located (Stone)

O = Corners Re-established

PROJECT

SHELL OIL COMPANY

WELL LOCATION AS SHOWN IN THE NE 1/4, SECTION 3, T 2 S, R 4 W, USB & 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.

Gene Stewart

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 20 July, 1970
PARTY GS - MS - RK	REFERENCES GLO Township Plat
WEATHER Overcast & Hot	FILE SHELL OIL CO.

Sec. 3 SW¼NE¼ 1468' FNL 1503' FEL	2S	4W	1-03-B4	-	-	-	-	-	Brotherson Lease Drilling - Depth 11,753' Fee Land
Sec. 11 N½S½NE¼ 1520' FNL 1320' FEL	2S	4W	1-11-B4	-	-	-	-	-	Brotherson Lease Drilling - Depth 6,510' Fee Land
Sec. 14 SW¼SE¼NE¼ 2100' FNL 750' FEL	2S	4W	1-14-B4	-	-	-	-	-	Brotherson Lease Drilling - Depth 9,270' Fee Land

Note: There were 31,190 runs or sales of oil; 0 M cu. ft. of gas sold; 0 runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

6

*STATUS: F-Flowing P-Pumping GL-Gas Lift SI-Shut In D-Dead GI-Gas Injection TA-Temp. Aban. WI-Water Injection

Sec. 3 SW¼NE¼ 1468' FNL 1503' FEL	2S	4W	1-03-B4 [redacted]	-	-	-	-	[redacted]	cotherson Lease Drilling - Depth 6,794' Fee Land

Note: There were 20,765 runs or sales of oil; 0 M cu. ft. of gas sold; _____ runs or sales of gasoline during the month.

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
W/ Water Injection

August 4, 1970

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Shell-Tenneco-Brotherson Etal
Unit #1-3
Sec. 3, T. 2 S, R. 4 W, USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with the Order issued in Cause No. 139-1.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL-Chief Petroleum Engineer
HOME: 277-2890

Or

CLEON B. FEIGHT, Director
HOME: 466-4455
OFFICE: 328-5771

This approval terminates within 90 days if the above mentioned well has not been spudded-in within the said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-013-30048.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

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*

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 Mtn Div. Production)
Tenneco 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*)*
At surface: 1468' FNL and 1503' FEL Sec 3
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: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NW/4 NE/4 Section 3-T 2S-R 4W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
139-1	8-4-70	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
9-6-70	1-15-71	1-24-71	6302 GL, 6321 KB	19.32'

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
12,850	OH		→	Total	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Wasatch OH 12,400-12,850'

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SP, Int BHCS/GR/Cal, PL/ML/Cal, SNP/GR/Cal, FDC/GR/Cal, Variable Density, and Shear Amplitude

27. WAS WELL CORED: Yes

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"	54.5#	1,108'	17½"	950 sx	0
9 5/8"	40 & 47#	10,600'	12¼"	500 sx	0
5 1/2"	14#	3,995.87'	(Heat String)	Not cmt'd but hanging	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7 5/8"	10,086	12,398.23	300	

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*)
1-24-71	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-15-71	24	1"		1414	1210	0	855

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
400	1400		1414	1210	0	43.7°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Well Log and History and Csg & Cmtg Detail

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

SIGNED [signature] For: J. C. Howell TITLE Division Petroleum Engr. DATE Feb. 24, 1971

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

SHELL OIL COMPANY

FROM: 8-27-70 - 2-17-71

LEASE SHELL-TENNECO-BROTHERSON WELL NO. 1-3B4
DIVISION ROCKY MOUNTAIN ELEV. 6321 KB
COUNTY DUCHESNE STATE UTAH

UTAH

ALTAMONT
Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

"FR" Rigging up.
Located 1468' FNL & 1503' FEL, Section 3-T2S-R4W, Duchesne County, Utah
Elev: 6302 GL
14,000' Green River - Wasatch Test
Shell Working Interest - 64.329%
Drilling Contractor - Brinkerhoff Drilling Company
Brotherson et al No. 1-3 initiates development of the Green River reservoirs in Altamont Field. The Brotherson et al No. 1-3 is approximately one mile southwest of the Shell, Miles No. 1 discovery well of Altamont Field. AUG 27 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

RURT. AUG 28 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000 Breen River-
Wasatch Test

Rigging up. AUG 31 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

RURT. SEP 1 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

RURT. Will test gas line today. SEP 2 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

RURT. SEP 3 1970

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Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

RURT. SEP 4 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

502/116/2/502. Drilling.
Dev 1° @ 76', 1½° @ 148', 1° @ 178', ½° @ 247' & 336'.
Spudded 2 a.m. 9/6/70. SEP 8 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

1108/116/3/606. Making up 17½" hole opener. Dev ½° @ 645', 864', & 1108'. SEP 9 1970
Mud: 9.3 x 43 (gel and wtr).

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

1108/116/4/0. Opening 12¼" hole to 17½".
Mud: 9.0 x 41 (gel and water). SEP 10 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

1108/116/5/0. Circ and cond mud. Waiting on 13 3/8" tong.
SEP 11 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

1490/116/8/382. Drilling. Dev ½° @ 1402'.
Ran and cmt 36 jts (1100') 13 3/8" 54.5# K-55 csg w/Bkr shoe to 1108' w/750 sx 1:1 poz, 4% gel, 2% $CaCl_2$, followed by 200 sx Class "G" Neat cmt, 2% $CaCl_2$. Bkr float collar at 1074'. Bumped top rubber plug w/166 bbls wtr to 1500 psi. Had good cmt returns to sfc. Cmt in place 8:20 p.m. 9/11/70. After 2 hrs, cmt dropped in annulus 9 ft. Recemented by hand. Cmt in place 2 a.m. 9/12/70. WOC and nippled up. Tested all chk lines and kill lines and BOP's with 1500 psi ok.
Mud: Water. SEP 14 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

2050/116/9/560. Drilling. Dev: 0° at 1686. Bit No. 7 out at 1686. 578' in 16¼ hrs. Bit condition - T5-B6-I
Mud: Water. SEP 15 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

2700/116/10/650. Drilling. Dev 0° @ 2134.
Bit #8 12¼" Smith out @ 2134'. 448' in 16 hrs.
Bit condition - T_4-B_5-I. SEP 1 6 1970
Mud: Water.

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

2335/116/11/635. Drlg. Dev: 1/2° @ 2833. Bit No. 9 12 1/4"
Hughes out @ 2833' - 701' in 18 1/2 hrs. Bit condition -
T_6-B_8. SEP 1 7 1970
Mud: Native

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

3925/116/12/1590. Pulling Bit #11. Dev ½° @ 3470'.
Bit #10 12¼", shoe out @ 3470. 637' in 17 hrs. T_4-B_6.
Mud: Native. SEP 1 8 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

5075/116/15/1150. Drilling. Dev: 0° @ 4685.
Bit #13 12¼" out at 4685. Bit condition - T-8, B-5, I.
Mud: 9.2 x 37 x 10.1 (sal 495) (gel 0.6) (plastic vis 11)
(yield point 3).
(Changed from wtr to low solid mud at 4790'.) SEP 2 1 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

5260/116/16/185. Drilling.
Dev: ½° at 5115. Bit #14 Hughes 12¼" X1G out at 5115.
430' in 22½ hrs. T-6, B-1 SEP 2 2 1970
Mud: 9.3 x 33 x 10.4 (sal 495) (gel 0 and 4) (yield point 4)

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

5417/116/17/157. Drilling.
Bit #15 measured out of hole.
Mud: 8.9 x 36 x 11.2 (sal 500) SEP 2 3 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

5567/116/18/150. Drilling.
Mud: 9.0 x 36 x 11.4 (sal 425) (LCM 0) (Oil 0) (gel 0&4).
SEP 2 4 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

5785/116/19/218. Drilling.
Mud: 9.0 x 34 x 10.8 (sal 400) (LCM 0) (Oil 0) SEP 2 5 1970
(gel 0 & 4) (plastic vis 11) (yield point 3).

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

6309/116/22/524. Drilling.
Bit #17 12¼" Smith 4-JS out @ 6200'. 370' in 40½ hrs. Out of gauge ¼". Reamed 80' w/bit #18. Lost approx 250 bbls mud in past 24 hrs.
Mud: 8.9 x 35 x 9.6 (sal 165) (LCM 0) (Oil 0) (gel 0&5) (plastic vis 9) (yield point 2). SEP 2 8 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

6464/116/23/155. Drilling. Dev: 1¼° @ 6200'.
Spent 5½ hrs jacking up rig.
Mud: 8.8 x 39 x 9.5 (sal 198) (LCM 0) (Oil 0) (gel 0 & 7) (plastic vis 11) (yield point 3). SEP 2 9 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

6664/116/24/200. Pulling Bit #18.
1 3/4 hrs circ samples at 6664.
Mud: 8.9 x 36 x 9.9 (sal 199) (LCM 0) (Oil 0) (gel 0 & 5) (plastic vis 10) (yield point 3). SEP 3 0 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

6794/116/25/130. Drilling. Dev: 1¼° @ 6664'.
Bit #18 12¼" Hughes X-55R out at 6664'. 464' in 51¼ hrs. Condition of bit - 2 seals out. Gauge out ¼. Reamed 84' w/Bit #19.
Mud: 8.9 x 35 x 9.5 (sal 165) (LCM 0) (Oil 0) (gel 0&4) (plastic vis 8) (yield point 2). OCT 1 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

7000/116/26/206. Drilling.
Mud: 8.9 x 37 x 8.6 (sal 960) (plastic vis 11) (yield point 3).
OCT 2 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

7296/116/29/296. Drilling.
Stuck pipe at 6070 while on trip for new bit.
Spotted 75 bbls diesel mixed with three drums Milchem Petrokote - soaked 2½ hrs and jarred fish loose w/sfc jars.
Magna-fluxed all DC's and found three defective pins and two defective boxes.
Mud: 8.9 x 37 x 7.6 (sal 165) (LCM 0) (Oil 0) (gel 0&3) (plastic vis 8). OCT 5 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

7468/116/30/172. Drilling.
Bit No. 20 12¼" Smith 4-JS out at 7345. 335' in 38¼ hrs.
One seal failure and locked. Out of gauge 1/8".
Reamed w/Bit No. 21 from 6238-6310, & 7270-7345.
Mud: 9.0 x 36 x 7.8 (sal 165). OCT 6 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

7684/116/31/216. Drilling.
Mud: 9.1 x 35 x 7.5 (sal 198) (gel 0&5) (plastic vis 9)
(yield point 2). OCT 7 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test

7900/116/32/216. Drilling.
Mud: 9.1 x 38 x 8.2 (sal 248) (LCM 0) (Oil 0) OCT 8 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

7985/116/33/85. Drilling. Dev: 1 3/4° @ 7926.
Bit #21 12¼" Smith 4JS out at 7926'. 581' in 63½ hrs, 1 seal failure.
Washed and reamed w/Bit #22 from 7853-7926'.
Mud: 9.0 x 37 x 8.7 (sal 248). OCT 9 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

8405/116/36/420. Drilling. Dev: 2½° @ 8352.
Bit #22 12¼" Smith out at 8352. Made 426' in 64¼ hrs. Bit condition - 3 seals out and out of gauge 1". Reamed 93' to btm w/Bit #22.
Mud: 9.0 x 36 x 8.3 (sal 198) (LCM 0) (Oil 1%) (gel 0 & 3)
(plastic vis 12) (yield point 2). OCT 12 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

8501/116/37/96. Drilling.
Bit #23 12¼" Hughes X55R out at 8430'. 78' in 16¼ hrs.
Condition of bit good.
Mud: 9 x 46 x 8.5 (sal 198) (LCM 0) (Oil 1%) (gel 0 & 4)
(plastic vis 12) (yield point 3). OCT 13 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

8714/116/38/213. Drilling.
Mud: 9.0 x 39 x 8.2 (sal 182) (LCM 0) (Oil 1½%) (gel 0 & 4)
(plastic vis 11) (yield point 3). OCT 14 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

8846/116/39/132. Making trip. Dev: 4° @ 8846.
Bit #24 12¼" Smith 4JS out at 8846. Made 416' in 53½ hrs.
Out of gauge 1/8".
Mud: 9.0 x 39 x 8.2 (sal 198) (LCM 0) (Oil 1.4%) OCT 15 1970
(gel 0 & 4) (plastic vis 11) (yield point 3).

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

9000/116/40/154. Drilling. Dev: 4o @ 8846. OCT 16 1970
Mud: 9 x 36 x 7 (sal 198) (plastic vis 11) (yield point 3).

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

9428/116/43/428. Making up Hal test tools.
Mud: 9.0 x 35 x 8.2 (sal 182) (gel 0 & 3) (plastic vis 11) (yield point 3). OCT 1 9 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

9488/116/44/60. Drilling. Dev: 3 3/4° @ 9428.
Hal DST tools stuck at 9392'; jarred loose and pulled. Went back in hole w/Bit #27 and washed and reamed from 9210-9428.
Mud: 9.1 x 47 x 7.2 (sal 198) (gel 0&5) (plastic vis 16) (yield point 5). OCT 2 0 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test

9675/116/45/187. Drilling.
Mud: 9.1 x 44 x 7.8 (sal 198) (LCM 0) (Oil 0) (gel 0&4) (plastic vis 15) (yield point 5). OCT 2 1 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

9860/116/46/185. Drilling.
Mud: 9.1 x 42 x 8.2 (sal 198) (gel 0&3) (plastic vis 14) (yield point 4). OCT 2 2 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,024/116/47/164. Drilling.
Mud: 9.1 x 40 x 8.8 (sal 198) (gel 0&3) (plastic vis 14) (yield point 4). OCT 2 3 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,552/116/50/528. Drilling. Dev: 3 3/4° @ 10,024.
Bit #27 12¼" Smith 4JS out at 10,024'. 596' in 77 hrs. Cond of bit - 3 seals out.
Mud: 9.2 x 68 x 8.6 (sal 198) (gel 1&9) (plastic vis 24) (yield point 7). OCT 2 6 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,600/116/51/48. Drilling. Dev: 4° @ 10,580.
Bit #28 12¼" Smith 4JS out at 10,580. 556' in 68 3/4 hrs. 3 seals out. Magna-fluxed all DC's - no defective DC's.
Mud: 9.3 x 43 x 7.9 (sal 198) (gel 0&4) (plastic vis 15) (yield point 4). OCT 2 7 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/52/45. Building mud weight.
Well started to flow. Put well on choke 4 p.m. Building mud weight to 9.6#. Lost approximately 50 bbls of mud to formation.
Mud: 9.6 x 75 x 3 (sal 160) (Oil 18%). OCT 2 8 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/53/0. Well SI; mixing mud. Mixed and pumped through choke 1,050 bbls 9.7# mud, and 1,050 bbls 9.8# mud. Returns are approx 60% oil. OCT 2 9 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/54/0. Well SI; mixing mud.
Mixed 1,000 bbls 9.8# mud. Pumped in hole w/well on choke. Returns approx 75% oil. Mixed 1,000 bbls 9.9# mud. Pumped in hole w/well on chk. Returns approx 10% oil, 6% LCM in mud. OCT 3 0 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/57/0. Running logs (Schl)
Killed well, circ, and build mud weight. Cond mud for logs; lost 350 bbls mud while cond. NOV 2 1970
Mud: 10 x 47 x 7.8 (sal 165) (LCM 10%) (gel 1&5).

Shell-Tenneco -
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test

10,645/116/58/0 Running logs.
Mud: 10 x 52 x 7.6 (sal 148) (LCM 10%) (Oil 3%)
(gel 0 & 4) NOV 3 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/59/0. Making clean out run w/bit.
NOV 4 1970

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/60/0. Logging. Made a bit run between logs - pulled and logging. Schl lost some iron in hole.
Mud: 10+ x 52 x 8.4 (sal 165) (LCM 10%) (Oil 2½%)
(gel 1&6) (plastic vis 16) (yield point 6). NOV 5 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/61/0. Drlg on Schl iron. Ran logs as follows: DIL/SP, Int BHCS/GR/Cal, PL/ML/Cal, SNP/GR/Cal, FDC/GR/Cal and Variable Density.
Ran bit #30 12¼" Hughes WD7. Pushed Schl fish from 10,610-10,645. Drlg on same. NOV 6 1970
Mud: 10+ x 44 x 9.4.

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/64/0. WOC; nippling up.
Ran and cmt 258 jts (10,610') 9 5/8" csg consisting of (129 jts S-95 47# ST&C, 111 jts S-95 40# ST&C, and 18 jts S-95 40# LT&C) at 10,600' KB w/300 sx 1:1 poz, 2% gel, 15% salt, and .2% D-13, followed by 200 sx Class "G" neat cmt, 15% salt, and .5% D-13 (Dow). Bkr float collar Model "G" at 10,515' and Bkr guide shoe at 10,609'. CHF-KB - 19.32'. Plug down 8:53 a.m. 11/8/70 w/1950 psi. Float held. Full circ throughout.
Mud: 10.1 x 49 x 9.4 (LCM 10%) (gel 0&4) (plastic vis 15) (yield point 5). NOV 9 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,645/116/65/0. Drilling on rubber plugs.
Nippled up BOP's. Tested BOP's and csg to 2,000 psi, ok. 12' of cmt above plugs.
Mud: 10.1 x 42 x 7.5 (gel 0&4) (plastic vis 13) (yield point 4) (ph 8.5) (solids 7%). NOV 10 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,650/116/66/5. Circulating w/core bbl on bottom; prep to cut Core No. 1.
Mud: 10.2 x 44 x 6.5 (gel 0&4) (plastic vis 15) (yield point 5). NOV 11 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,710/116/67/60. Tripping.
Core No. 1 10,650-10,710. Cut and rec'd 60'.
Details later.
Spent 13 3/4 hrs coring.
Mud: 10.3 x 43 x 6.2 (1238 ppm) (gel 0&1) (plastic vis 15) (yield point 4). NOV 12 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

10,770/116/68/60. Pulling Core No. 2 10,710-10,770.
Core No. 1 10,650-10,710. Cut and rec 60'.

10,650-10,663	Ls to dolo, very shaley, hd, blk, spty natural yellow fluor, bright yellow nat fluor on fracture faces, spotty cut fluor.
10,663-10,665	A.a, gry to blk
10,665-10,676	A.a, blk
10,676-10,683	A.a, w/blk laminations
10,683-10,686	A.a, gry to blk
10,686-10,692	A.a, blk
10,692-10,696	A.a, gry to blk
10,696-10,699	A.a, blk
10,699-10,704	A.a, gry to blk
10,704-10,710	Ls to dolo, very shaley, hd, gry. No shows (may have been flushed during 1.5 hr circ following coring and prior to tripping out with core.

NOV 13 1970

(Cont'd)

(Cont'd)

Fractures: (Abundant throughout. Oil bleeding from all fractures except 10,704-10,710.)

10,650-10,670	Horizontal to 35° from horizontal
10,670-10,678	Vert to 40° from vertical
10,678-10,683	Mostly horizontal
10,683-10,685	Vertical
10,685-10,704	Horizontal to 30° from horizontal
10,704-10,710	Vert fractures less frequent but greater in length.

Mud: 10.3 x 50 x 5.6 (sal 1205) (Oil 3.4%) (gel 0&1) (plastic vis 17) (yield point 6) (ph 10) NOV 13 1970.

Shell-Tenneco
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-Wasatch Test

10,895/116/71/125. Drilling.

Core No. 2 10,710-10,770. Cut and rec 60'.

10,710-10,738	Ls to dolo, very shaley, hd, gry, minor intermittent fractures.
10,738-10,740	A. a., blk
10,740-10,770	A. a., gry (67-70 possible nat vert fracs)

Oil on sfc of core but no evidence indicating it was coming from core.

Reamed from 10,650-10,770. Circ and cond mud for DST #2.

DST #2 10,600 (bottom of csg)-10,770

Bottom of pkr in csg @ 10,562
37' of anchor below pkr ¼" cnk in test tool on bottom.
Water cushion: 1,565' (24 bbls) Rw=12 @ 70°F
Hook load before setting pkr: 174,000#
Pit mud: Rm=2.29 @ 83°F (1287 ppm Cl-)
Op 10 min. Op w/weak blow (1" H_2O), inc. to strong blow in 3 min, cont'd to increase for remaining 7 min. No GTS.
SI 90 min.
Op 68 min. Op w/strong blow immed. GTS, immed. rate in 65 min = 35 MCFPD, WCTS in 68 min.
SI 212 min.

Recovery: Reversed out following flow period:
24 bbls WC (Rw-12 @ 69°F)
154 bbls HGCO (32.5° API)

Sample Chamber: 55.6 cu. ft. gas @ 4900 psig
1900 cc total fluid
1805 cc oil (32.5° API @ 60°F)
95 cc mud
No water.

Pressures: Bottom Inside Recorder @ 10,543 (Field Readings)

IHP	5686
IFP	4142
ISIP	5580
FFP	4866
FSIP	5472
FHP	5996 (Inc mud wt prior to tripping out)

Max Temp: 199°F.
Mud: 10.4 x 47 x 5 (1215 ppm) (Oil 7%) (gels 0&1) (plastic vis 17) (yield point 5). NOV 16 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,034/116/72/139. Drilling.
Mud: 10.5 x 47 x 6 (chlorides 11,055 ppm) (Oil 5.8%)
(gels 0&1) (plastic vis 18) (yield point 5) (ph 9.5). NOV 1 7 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,136/116/73/102 Tripping.
Mud: 10.5 x 48 x 6 (1155 ppm chlorides)
(Oil 5.8%) (gels 0 & 1) (plastic visc 18)
(yield point 5) (ph 4.5) NOV 1 8 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test

11,169/116/74/33. Drilling. Dev: 6° @ 11,136.
Mud: 10.6 x 44 x 6.2 (chlorides 1106) (Oil 5.5%)
(gels 0&1) (plastic vis 16) (yield point 7). NOV 1 9 1970

Shell-Tenneco-
Brotherson et al
No. 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test

11,224/116/75/55. Drilling.
Pmpd 54 strokes - 6" liners, 18" stroke, 2,000# press.
Jets (1) 13, and (2) 14's. Bit weight 45,000#, 44 RPM.
Bit #34 8 5/8" S-88 in hole at 11,136.
Mud: 10.6 x 46 x 6.2 (chlorides 1056) (Oil 5%) NOV 2 0 1970
(gels 0&2) (plastic vis 17) (yield point 6) (ph 9.5).

Shell-Brotherson
No. 1-3B4
(D) Brinkerhoff
14,000'Green River-
Wasatch Test

11,340/116/78/116. Drilling. Dev: 6¼° @ 11,228, and
6° @ 11,340.
SLM 11,228 = 11,229.69 (no correction).
On 11/21/70. Pump 54 strokes 6", 18" stroke 2,000#.
Bit nozzles 1-13 and 2-14's. Bit weight 40,000#, 42 RPM.
Bit #34 8 5/8" S-88 in at 11,136, and out @ 11,228.
92' in 39½ hrs. T-8, B-8. Cut noses from three cones.
Bit #35 8 5/8" 4JS in at 11,228.
On 11/22/70. Pump 54 strokes 6", 18" stroke 2,000#.
Jets 1-13, 2-14's. Bit weight 45,000#, 42 RPM.
Bit #35 8 5/8" 4JS in at 11,228, out at 11,325.
95' in 28 3/4 hrs. T-7, B-8, I.
Bit #36 YHGJ in at 11,325. Lost slip handle on trip.
Ran basket and tooth type bit.
Pump 54 strokes, 6" 18" stroke 2,000# press.
2-14's and 1-15. 40,000# bit weight. 42 RPM.
Bit #36 8 5/8" YHGJ in at 11,325, out at 11,340. Made 15'
in 5 hrs. T-4, B-3, I. Bit #37 8 5/8" 3JS in @ 11,340.
Rec'd some iron in junk basket.
Mud: 10.9 x 47 x 5.8 (sal 870 ppm) (ph 9) (gels 0&1)
(plastic vis 19) (yield point 4). NOV 2 3 1970

Shell-Brotherson
No. 1-3B4
(D) Brinkerhoff
14,000' Cretaceous Test

11,448/116/79/108. Drilling.
Pump 54 strokes, 6" liners, 18" stroke 2,000#.
Jets 2 - 14's, 1 - 15. 40,000# on bit. 42 RPM. NOV 24 1970
Bit #37 8 5/8" 3JS - drlg.
Mud: 11 x 46 x 5.8 (chl 8074) (Oil 4%) (gels 0&1)
(plastic vis 19) (yield point 4) (cake 2/32") (ph 9).

Shell-Brotherson
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,493/116/80/45. Drilling. NOV 25 1970
Mud: 10.9 x 45 x 5.4 (sal 858) (Oil 3½%).

Shell-Brotherson
No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,753/116/85/260. Drilling. Dev: 4° @ 11,446.
Mud: 12.6 x 48 x 5.4 (sal 825). NOV 30 1970

Shell-Tenneco-
Brotherson No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,828/116/86/75. Drilling. DEC 1 1970
Mud: 13.3 x 50 x 5.0 (sal 900) (LCM 6%) (Oil 3%)

Shell-Tenneco-
Brotherson No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,885/116/87/57. Drilling.
2½ hrs circ at 11,852, 1 hr circ at 11,884. DEC 2 1970
Lost approx 70 bbls mud.
Mud: 14.3 x 57 x 4.8 (sal 950) (LCM 7%) (Oil 3%)

Shell-Tenneco-
Brotherson No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,888/116/88/3. Circ; prep to drill.
Ran logs as follows: DIL/SP, Int BHCS/GR/Cal.
Pulled Bit #40 8 5/8" Smith 4JS out 11,888.
Made 136' in 46 hrs. T-4, B-3, I. DEC 3 1970
Mud: 14.4 x 60 x 5.8 (sal 594) (LCM 8%) (Oil 2½%)

Shell-Tenneco-
Brotherson No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,898/116/89/10. Pulling DST No. 3.
Set pkrs for DST No. 3; would not hold.
Mud: 14.2+ x 57 x 5.6 (sal 610) DEC 4 1970

Shell-Tenneco-
Brotherson No. 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,975/116/92/77. Prep to pull Bit #41.
DST #4 Johnston Hookwall. Test failed. Pkrs @ 11,638 &
11,635. DEC 7 1970
Mud: 13.5 x 47 x 5.9 (sal 726) (LCM 5%) (Oil 2%)

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

11,997/116/93/22. Drilling. Dev: 4° at 11,975.
Bit #41 rerun Smith 4JS out at 11,975. Made 77'
in 25 3/4 hrs. Condition of bit - one seal out.
Reamed tight hole w/Bit #42 from 11,287-11,400.
Mud: 13.4 x 42 x 6 (sal 676) (Oil 2%) DEC 8 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,020/116/94/23. Going in hole w/core bbl to cut Core #3.
Mud: 13.6 x 53 x 6 (sal 676) (LCM 5%) (Oil 2%) DEC 9 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,050/116/95/30. Coring on Core No. 4.
Core No. 3 12,020-12,039. Cut and rec'd 19'. Bbl jammed.

12,020-12,021	Silt, red-brn, shaley, sli calc, N.S.
12,021-12,022	A.a., w/gry-grn limey inclusions
12,022-12,023	Sh, silty, red-brn, very calc
12,023-12,029	Silt, red-brn, shaley, calc, N.S.
12,029-12,031	Ls, Lt gry, very shaley, N.S.
12,031-12,032	Silt, red-brn, shaley, sli calc, N.S.
12,032-12,039	Sh, red-brn, very silty

Note: Core completely intact. No evidence of natural fractures. No increase in gas while coring.
Magnafluxed DC's and BHA; no rejects.
Mud: 13.7 x 56 x 6 (676 ppm chl) (oil 2%) (gels 0 & 2) (plastic vis 32) (yield point 4) DEC 10 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,097/116/96/47. Drilling.
Core No. 4 12,039-12,064. Cut & rec'd 25'. (Core intact)

12,039-12,040	Sh, red brn, v silty, calc
12,040-12,041	Ls, gry, v shaley
12,041-12,042	Sh, red brn, v silty, calc
12,042-12,043	Dolo, gry, sh
12,043-12,044	Silt, gry, calc
12,044-12,047	Ss, wh-lt gry, v calc, tight, vf gr, N.S.
12,047-12,050	Ss, a.a., wh
12,050-12,051	Ss, a.a., gry, sli calc
12,051-12,052	Ss, a.a., dk gry, sli calc
12,052-12,053	Silt, dk gry, sh, sli calc
12,053-12,056	Sh, red brn, sli calc, silty
12,056-12,064	Sh, a.a., v calc

Bit #45 8 5/8" Smith 3JS 2 - 15's and 1 - 16 nozzle.
8½ hrs - 34'.
Mud: 13.7 x 47 x 5.9 (cake 2/32") (ph 9) (Sd Trc) (plastic vis 25) (yield point 3) (solids 21) (oil 1 3/4%) (salt 660) (gels 1 & 1) DEC 11 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,297/116/103/5. Going in hole w/DST No. 6.
Core No. 6 12,236-12,292. Cut and rec'd 56'.

12,236-12,243	Sh, sdy and silty to ss, shaley, red and grn-gry interbedded, v poor sorting, calc, grain size ranges from silt to coarse
12,243-12,246	Ss, med gry-grn, lvf-lf, occ siltstone, v calc, mod sort spty yellow-grn fluor, numerous 20° partially healed fractures
12,246-12,247	Siltstone, red and grn-gry mottled, v shaley, bored and churned
12,247-12,255.5	Ss, lt tan-gry, v calc, dull grn fluor throughout, bleeding gas, x-bedded, numerous vert part open fractures w/yellow-grn oil, small calcite crystals, grain size sorting, and est por as follows: 12,247-12,248 lf, well, tite 12,248-12,249 lf, well, 2-4% 12,249-12,250 uf, mod, 5-7% 12,250-12,251 lf, mod 4-5% 12,251-12,252 uf, mod-poor, 2-3% 12,252-12,253 uf-cs, v poor, 2% 12,253-12,254 lm, mod, 1-2% 12,254-12,255.5 lm-lf, mod-poor, tite
12,255.5-12,258	Sh, (claystone), sdy, grn-gry, v poor sorting, sli calc, tite
12,258-12,259	Interbedded red and grn-gry sdy sh, a.a., grain size, vf-coarse
12,259-12,261	Ss, lt gry, lvf, and silt, dk gry-grn, shaley, interbedded, ss has qtz appearance crossbedded, tite, numerous 70° tite fractures, N.S.
12,261-12,270	Sh, (claystone) red and grn-gry interbedded, frequent silt and sd stringers, calc, bored and churned
12,270-12,280	Ss, lt gry, frequent dk gry shaley stringers, top 6' bored and churned, lower 4' cross-bedded up to 30°, tite, N.S. (Sh stringers micaceous)
12,280-12,287	Sh, gry-grn to blk, occ ss stringers, uvf, bored and churned, occ 70° fractures in sd.
12,287-12,292	Dolo, claystone, med gry, chalky on fresh breaks, bleeding gas slightly, open calcite crystal lined fracture last 3". yellow brn oil on fractures

(Cont'd)

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,215/116/99/119. Drilling.
DST No. 5 12,031-12,114.
½" choke in test tool on bottom 5100 feet water cushion Rw = 3.82 @ 64°F
Pit Mud = 0.52 @ 53°F
Op 10 min Open w/very weak blow. Incr to strong blow in 2 min. Con't strong throughout. No GTS.
SI 90 min
Op 90 min Open w/weak blow. Incr to strong blow in 1 min. No GTS.
SI 270 min (GTS 5 min into shut in)
Recovery: Based on final flow pressure:
36 Bbls G&OC Mud
Est max 10% of dark brown gas cut oil
Sample chamber contents will be reported later.
Pressures: IHP 8822, IFP 3487, ISIP 6010 (Inc.), FFP 3433, FSIP 5162 (Inc.), FHP 8822.
Max temp - 210°F.
DEC 1 4 1970
Mud: 13.8 x 52 x 5.8 (sal 627) (LCM 5%) (oil 1 3/4%)

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,235/116/100/20. Tripping in for Core No. 6
SLM 12,220 = 12,225 (5' correction)
Core No. 5 12,225-12,236. Cut and rec'd 11'

12,225-12,227.5	Ss, f-m gr, gry, mod sorting, v calc, tite, 1% dk minerals, partially healed fractures, 20° from vertical, N.S.
12,227.5-12,234.5	Interbedded red and gry-grn sh, sli calc, bored and churned in grn sh
12,234.5-12,236	Ss, gry-grn, f-m gr, mod sorting, calc, est 2-3% por, partially healed fractures, 20° from vertical, blue-grn spty nat fluor, slow strmg cut.

Addition to DST No. 5
Sample chamber contained: 70.56 CF gas at 2075 psi.
No fluid.
Mud: 13.8 x 55 x 5.8 (sal 627) (LCM 5%) (oil 1 3/4%)

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,281/116/101/46. Coring.
Mud: 13.9 x 58 x 5.7 (sal 627) (oil 1 3/4%)
DEC 1 6 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,292/116/102/11. Pulling Core #6.
Made short trip 1 hr off bottom. Mud weight cut from 14 to 13.8#.
DEC 1 7 1970
Mud: 14.3 x 58 x 5.7 (sal 627) (oil 1 3/4%)

(Cont'd)

Core No. 7 12,292-12,297. Cut and rec'd 5'.
Details later.
Sidewall core slices obtained on first logging run are described as follows:

7828-7831 Full recovery.
Oil shale, lt brn, finely laminated, indurated, dolomitic, kerogen finely distributed in laminae, some pure kerogen zones up to 1/16", silty and pyritic, interbedded silt stringers up to ¼" thick w/silica cmt, very hard, micaceous, minor vertical hair line fractures in silt, oil staining in silt.

8300-8303 Full recovery.
Oil shale, a.a. w/silt and vf sand stringers up to 2" thick, vertical fractures, bleeding oil.

9378-9381 Recovered 2 feet.
Limestone (mudstone), chalky, lt brn-lt gry, irregularly bedded, slightly silty, pyritic, fossiliferous, 1/16" vertical fractures partially to completely healed with calcite

9408-9411 Full recovery (fractured and broken).
Limestone (mudstone), chalky, lt brn-lt gry, irregularly bedded, very fossiliferous in many intervals, few well developed stylolites (some near vertical), vertical fractures (hairline to 1/10") partially to completely healed w/calcite

9818-9821 Full recovery.
Limestone a.a., w/many hairline vertical fractures (more appear to be healed), good cut fluor, good blotchy porosity

DEC 1 8 1970

Mud: 14.4 x 58 x 5.6 (sal 625) (oil 1 3/4%)

Shell-Tenneco-Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-Wasatch Test
9 5/8" csg at 10,600'

12,336/116/106/39. Drilling.
DST No. 6 12,200-12,297. Misrun.
Core No. 7 12,292-12,297. Cut and rec'd 5'.

12,292-12,297 Ss, lt tan-gry, v calc, ranges from lvf to u med, mod-poor sort, est 1-3% por, slt fluor, weak cut fluor, some tite vert frac traces.

Hole took 80 bbls mud on trip out w/DST. Lost 300 bbls mud while reaming core hole from 12,225-12,247. Pulled bit up into csg. Spent 21 hrs mixing 4 pits mud. Circ'd at 10,500'. Lost 50 bbls. Tripped in at 11,300. Circ'd w/no mud lost. Spent 10½ hrs drlg on bridges from 11,400-11,620 and then ran bit to bottom. Reamed core hole and commenced drlg. No mud lost.

DEC 2 1 1970

Mud: 14.3 x 52 x 7.6 (LCM 14%) (oil .9%)

(Cont'd)

Core No. 7 12,292-12,297. Cut and rec'd 5'.
Details later.
Sidewall core slices obtained on first logging run are described as follows:

7828-7831 Full recovery.
Oil shale, lt brn, finely laminated, indurated, dolomitic, kerogen finely distributed in laminae, some pure kerogen zones up to 1/16", silty and pyritic, interbedded silt stringers up to ¼" thick w/silica cmt, very hard, micaceous, minor vertical hair line fractures in silt, oil staining in silt.

8300-8303 Full recovery.
Oil shale, a.a. w/silt and vf sand stringers up to 2" thick, vertical fractures, bleeding oil.

9378-9381 Recovered 2 feet.
Limestone (mudstone), chalky, lt brn-lt gry, irregularly bedded, slightly silty, pyritic, fossiliferous, 1/16" vertical fractures partially to completely healed with calcite

9408-9411 Full recovery (fractured and broken).
Limestone (mudstone), chalky, lt brn-lt gry, irregularly bedded, very fossiliferous in many intervals, few well developed stylolites (some near vertical), vertical fractures (hairline to 1/10") partially to completely healed w/calcite

9818-9821 Full recovery.
Limestone a.a., w/many hairline vertical fractures (more appear to be healed), good cut fluor, good blotchy porosity

DEC 1 8 1970

Mud: 14.4 x 58 x 5.6 (sal 625) (oil 1 3/4%)

Shell-Tenneco-Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-Wasatch Test
9 5/8" csg at 10,600'

12,336/116/106/39. Drilling.
DST No. 6 12,200-12,297. Misrun.
Core No. 7 12,292-12,297. Cut and rec'd 5'.

12,292-12,297 Ss, lt tan-gry, v calc, ranges from lvf to u med, mod-poor sort, est 1-3% por, slt fluor, weak cut fluor, some tite vert frac traces.

Hole took 80 bbls mud on trip out w/DST. Lost 300 bbls mud while reaming core hole from 12,225-12,247. Pulled bit up into csg. Spent 21 hrs mixing 4 pits mud. Circ'd at 10,500'. Lost 50 bbls. Tripped in at 11,300. Circ'd w/no mud lost. Spent 10½ hrs drlg on bridges from 11,400-11,620 and then ran bit to bottom. Reamed core hole and commenced drlg. No mud lost.

DEC 2 1 1970

Mud: 14.3 x 52 x 7.6 (LCM 14%) (oil .9%)

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,400/116/107/64. Circ'g and short tripping; cond hole for logs.
Circ'd 1½ hrs short trip into csg. Hole dragged out and in.
Mud: 14.3 x 56 x 6 (LCM 14.5%) (Oil .8%) DEC 2 2 1970

Shell-Tenneco
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
9 5/8" csg at 10,600'

12,400/116/108/0. Circ and cond hole for logs.
Logs would not go below 10,777; tool was stuck briefly at 10,713.
Mud: 14.3 x 57 x 6.6 (LCM 14%) (Oil .8%) DEC 2 3 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

12,400/116/109/0. Attempting to fish DP wiper rubber out of csg at 5000'. While logging, logging tool became stuck at 12,175. Worked tool loose. While running bit to cond hole, wiper rubber pulled into csg. DEC 2 4 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

12,400/116/113/0. Going in hole to run DST No. 7.
Could not fish DP wiper rubber but tore up same.
Cond hole for logs. Logging tool went to bottom ok but hung up during logging. Ran logs as follows: DIL/SP, Int BHCS/GR/Cal, PL/ML, and FDC/GR/Cal. Cond hole for DST.
Mud: 14.3 x 56 x 4.2 DEC 2 8 1970

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test

12,400/116/114/0. Going in to cond hole for running 7 5/8" liner.
DST No. 7 12,244-12,349 (Lynes Pkr)
Op 13 min w/very weak blow (½" wtr) and continuing throughout. SI 90 min.
Op 60 min w/very weak blow (½-1" wtr) and continuing throughout. SI 210 min. No GTS.
Ran 6997' WC. R(WC) in 10+ (140 ppm Cl)
R(WC) out same
Recovery: 190' sli GCM (Rev. out 1.23 at 65°)
(1100 ppm Cl)
Sample Chamber contained: 5 CF gas at 1650 psig
1500 cc's sli GCM w/trc oil
Rm (pit mud) 2.5 at 65° (610 ppm Cl)
Rm (chamber) 1.87 at 65° (1250 ppm Cl)
Inside Recorder at 12,209
IHP 9181, FHP 9116, IFP 3617-3621, ISIP 8288, FFP 3534-3589, FSIP 8339. DEC 2 9 1970
BHT - 189°

Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test	12,400/116/115/0. Circ and cond mud for 7 5/8" liner. Lost approx 75 bbls mud. DEC 3 0 1970 Mud: 14.2 x 50 x 4.2 (sal 825 ppm) (LCM 8%) (oil ½%)
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test	12,400/116/116/0. Circ and cond mud waiting on 7 5/8" liner equipment. DEC 3 1 1970 Had tight hole at 11,338 and made short trip to shoe. Mud: 14.1 x 58 x 4.4 (sal 848) (LCM 8%) (oil ½%)
Shell-Tenneco Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test	12,400/116/120/0. Working on draw works. Ran and cmt 54 jts (2312') 33.4# 7 5/8" hyd FJ liner. Bkr float shoe at 12,398, float collar at 12,313, top of Burns hanger at 10,086. Cmt'd w/25 sx 1:1 poz, 275 sx Class "G" neat treated w/4#/sx B-82 and .3% D-8R, and .25% D-65. Bumped plugs w/271 bbls mud to 1500 psi. Had good circ throughout job. Cmt in place 4:15 p.m. 1/1/71. Had 390' stringers and soft cmt in 9 5/8" csg, 21' hard cmt above top of liner. JAN 4 1971 Mud: 14.1 x 63 x 5.9 (sal 678)
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400	12,400/116/121/0. Going in hole with bit to drill. Ran 7 5/8" Bkr scraper. Drilled out float collar at 12,312' & CO hd cmt to shoe at 12,398'. Tested liner and 9 5/8" csg with 450 psi at sfc for 15 min, held ok. Had 7 hrs repairs. JAN 5 1971 Mud: 13.8 x 78 x 6.0 (sal 860).
Shell-Tenneco Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" Liner at 12,400'	12,438/116/122/38. Tripping. Bit #47 Security 6½" F-88 - 38' in 19 hrs. Mud: 13.8 x 63 x 5.4 (sal 1237) (sd trc). JAN 6 1971
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" Liner at 12,400'	12,501/116/123/63. Drilling. JAN 7 1971 Mud: 13.8 x 56 x 5.6 (salt 1370)

Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400'	12,571/116/124/70. Drilling. Mud: 14.0 x 52 x 5.8 (sal 1353) (Oil trc) JAN 8 1971
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400'	12,735/116/127/164. Drilling. Well kicked at 12,718. Put well on chk; circ through chk and killed well. Break down - 11½ hrs drlg, 11 3/4 hrs killing well and building mud wt. 3/4 hrs made wiper run to shoe off 7 5/8. Mud gradient .759 psi/ft. Mud: 14.6 x 59 x 5.6 (chlorides 800) (sal 1320) (LCM trc) (Oil trc). JAN 11 1971
Shell-Tenneco Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400'	12,771/116/128/36. Drilling. Bit #48 6½" Christensen diamond 297' in 98½ hrs. Condition - reamed out. 11 hrs drlg, 9½ hrs trip, 1 hr cut drilling line, 2½ hrs circulating bottoms up. Mud gradient psi/ft .7566 Mud: 14.5 x 57 x 5.6 (ch 830) (sal 1370) (LCM trc) (Oil trc). JAN 12 1971
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400'	12,779/116/129/8. Running DST #8 12,680-12,779. 2 hrs drlg, 11¼ hrs tripping, 6 3/4 hrs circ and bldg mud weight, 2½ hrs making up test tools, and 1½ hrs testing. Mud gradient - .7566 Mud: 14.7 x 55 x 5.5 (chl 800) (salt 1320) (LCM trc) (Oil trc). JAN 13 1971
Shell-Tenneco Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" Liner at 12,400'	12,779/116/130/0. Going in hole w/diamond bit. DST No. 8 - 12,680-12,779. (5,500' WC) (3/4" btm hole chk) Op 5 min. Op'd w/weak blow, inc to strong blow in 2 min, continued to increase throughout. No GTS. SI 115 min, Op 48 min. Op'd w/strong blow. GTS in 37 min. WCTS (gassy) in 47 min. SI 233 min. Recovery: 124 bbls very gassy oil 2 bbls gas-cut mud Pressures: IHP 9,906, IFP 2,922, ISIP 9,804, FFP 4,351 FSIP 9,578, FHP 9,808. Chamber information later. Circ through test tools to kill well. Had three hrs breaking down tools, 5 hrs trip, 5¼ hrs testing, 3 3/4 hrs reversing out, and 6 3/4 hrs circ and kill well. Mud: 14.7 JAN 14 1971

Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River Wasatch Test 7 5/8" Liner at 12,400'	12,812/116/131/33. Drilling. Reamed and CO 108' intermittent bridges and fill; had tight hole. 7¼ hrs reaming, 12¼ hrs drilling, 4 hrs trip. JAN 1 5 1971 Mud gradient 0.78 Mud: 15.0 x 59 x 5.1 (salt 1285) (LCM 0) (Oil 1%)
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" liner at 12,400'	12,850/116/134/38. Tripping. (Addition to DST reported 1/14/71) Sample chamber contained: (2240 cc's total volume) 3700 psi 1400 cc's oil (Oil Gv 37.8° API @ 60°F) Ran logs as follows: DIL/SP, Int BHCS/GR/Cal, SNP/GR/Cal, FDC/GR/Cal, PL/ML, Shear Amplitude, and Borehole Televiewer attempted (negative results) Spent 7½ hrs logging, 5¼ hrs tripping, 10¼ hrs circ and cond mud for Bkr Model "D" prod pkr and 1 hr cutting drlg line. JAN 1 8 1971 Mud gradient - 0.78 Mud: 15 x 60 x 5.2 (salt 1370) (Oil 3/4%)
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" liner at 12,400'	TD 12,850/116/135/0. Laying down DP. Tripped out of hole. RU McC tools. Set Bkr 7" Model "D" pkr w/flapper valve attached at 12,275 (top of pkr) (WL meas). Btm of pkr 18' above top of 7" float collar. RD McC. Tripped in w/open ended DP. Circ to cond mud at 12,200'. JAN 1 9 1971 Mud: 15 (no other details available)
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" liner at 12,400'	12,850/116/136/0. Changing BOP stacks. Laid down DP. Racked, drifted and tallied 5½" csg heat string. Installed 5½" rams and BOP's. Ran (belled and openended) 125 jts (3976.55') 5½" 14# J-55 Rg-2 smls stl ST&C csg and landed on Cameron donut at 3995.87'. Set Bkr ret BP in 5½ string at 45'. JAN 2 0 1971
Shell-Tenneco- Brotherson 1-3B4 (D) Brinkerhoff 14,000' Green River- Wasatch Test 7 5/8" liner at 12,400'	TD 12,850/116/137/0. Going in hole w/2 7/8" tbg. Installed Cameron tbg hanger. Tested bottom of hanger and 5½" donut installation to 5000 psi. Installed 6" (Series 1500) double gate BOP w/6" GK (Series 1500) hydril on top. Hooked up kill line and pump line. Installed drlg nipple. Checked BOP operations, ok. Pulled Bkr 5½" BP from 45'. Picked up Bkr prod tube latch in seal assembly. Tbg on and off tool w/blanking plug in place. JAN 2 1 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
7 5/8" liner at
12,400'

TD 12,850/116/138/0. Displacing hole w/inhibited water. Installed Cameron tbg hanger. Test 5½" donut lower tbg spool pack off to 5000 psi, ok. Installed 6" Series 1500 hydraulic BOP w/6" Series GK hydril on top. Installed kill line, flow off line and drlg nipple. Checked BOP operation, ok. Pulled Bkr ret BP from 45' and picked up Bkr 5' prod tube. Latched in seal assembly 2 7/8" tbg on off seal connector assembly with bypass blanking plug in place on 2 7/8" N-80 tbg. Ran in 388 joints tbg, stung through and latched into Model "D" pkr. Set down 20,000# and pulled 20,000# over tbg wt to check latch, ok. Press test tbg and plug to 5000 psi 10 min, ok. Unlatched from on off seal connector. Pulled 2 jts 2 7/8" tbg. Removed drilling nipple and sub and put on tbg donut. With donut just above hydril BOP's, displaced mud in reverse as follows: all fresh wtr preheated to 100°F. Pumped 250 bbls fresh wtr down 5½-9 5/8" annulus. Pumped 150 bbls fresh wtr down 2 7/8-5½" annulus. Mixed 40 bbls fresh wtr w/gel to 40 viscosity. Pumped down 5½-9 5/8" annulus 460 bbls fresh wtr - total of 900. The returns est 99% wtr. Pumped 460 bbls fresh wtr - 1360 bbls total. Return samples clean.

JAN 2 2 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/141/0. Prep to reopen to pit. Circ'd out mud. Circ w/fresh water containing 85 gals Nalco 163 and 94# Nalco 19. Latched onto seal sleeve. Tested tbg and sleeve to 5,000 psi, held ok. Unlatched from sleeve. Installed back pressure valve in tbg hanger. Removed landed tbg on donut w/tbg off-on tool latched onto sleeve. Installed Cameron 10,000 psi Xmas tree. Tested tbg hanger spool to 10,000 psi, ok. Removed back press valve from tbg hanger. RU Marshall WL Tool Co. to retrieve blanking plug from seal assembly. Press'd tbg to 3500 psi. Retrieved equalizing trong. TP rose to 3700 psi. Fished and retrieved blanking plug hull. Press dropped to 2700 psi while fishing for hull; slowly rose to 4,000 psi. Blew well to pit to clean up at 9:05 a.m., SITP 4,000 psi. Began flowing to pit at 9:10 a.m. as follows:

Time	Chk	FTP	Remarks
9:10 a.m.	15/64"	2700	
9:15 a.m.	15/64"	1000	
9:30 a.m.	15/64"	1000	
10:00 a.m.	15/64"	1200	
10:15 a.m.	15/64"	1100	
10:30 a.m.	15/64"	2000	Mud to sfc
11:00 a.m.	15/64"	1500	Oil-cut mud
11:25 a.m.	15/64"	2000	Clean oil to sfc

JAN 2 5 1971

(Cont'd)

Shell-Tenneco
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/144/0. Flowing to tank battery; preparing to install line heater.
In 21 hrs, on 3/64" - 11/64" chks, flowed 547 BO and 0 BW. Down two hrs to change gas back press valve on heater treater. Down one hr to hot water gas line from treater to burn pit. Avg rate last six hrs - 18.2 BO/H, no wtr on a 6/64" chk, 4550 FTP, and 1650 SICP. JAN 2 8 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/145/0. Press testing in-line heater.
Reopened well through heater and gas separator. Flowed total of 18 hrs. Down 6 hrs repairing brass components. Last 7 hrs, avg'd 21 BO/H on 8/64" chk, 4500 FTP, static CP 1500. Total oil produced in 58 hrs - 1330 bbls. Total water produced in 58 hrs - 40 bbls. JAN 2 9 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/148/0. Flowing into battery on 15/64" chk.
From 7 a.m. 1/29 to 7 a.m. 1/30/71, well flowed 911 bbls in 22 hrs. Last 14 hrs, flowed 708 BO, no wtr, and no gas meas on 14/64" chk. FTP 3,000. Hourly rate - 50.5 BO/H. Trouble w/heater treater and burners plugging. Difficulty flowing due to low flowing temperatures, line heater and gas trap. Total oil flowed in 80 hrs - 2274 bbls.
From 7 a.m. 1/30 to 7 a.m. 1/31/71, on 24-hr test, well flowed 1181 bbls oil, no water, or gas measurement on 14/64" chk, 2950 FTP. Hourly avg - 49 BO/H. Last 4 hrs avg - 48 BO/H. Total oil flowed in 104 hrs - 3455 bbls oil and 40 BLW. Flowed continuously on 14/64" chk for 38 hrs.
From 7 a.m. 1-31 to 7 a.m. 2/1/71, flowed on 14/64" chk w/2800 FTP for five hrs. Shut well in 1 p.m. 1/31/71 to pump 40 bbls 200°F fresh wtr down tbg. MI&RU Hal. Pumped 1 BW/M down tbg. Max press - 6,000 psi. CO burner tubes on heater treater and installed gas scrubber on gas liquid separator. Opened well at 2:45 p.m. Opened well gradually to 14/64" chk at 6 p.m. Had trouble w/chk trying to plug off until 9 p.m. Placed rig steam hose on chk at 8:30 p.m. Opened chk to 15/64" at 11 p.m. Well flowed 894 BO and 19 BW in 22¼ hrs. Down 1 3/4 hrs hot watering tbg. Last 8 hrs, flowed 381 BO, no wtr, and avg gas rate of 1.3 MMCF/D w/FTP from 2500-2700 on 15/64" chk. Avg rate last 8 hrs - 47.6 BO/H, no wtr, & 1.3 MMCF/D (GOR 1140). Total flowed to battery 7 a.m 2/1/71 - 4349 BO and 59 BW in 126 hrs. FEB 1 1971

Shell-Tenneco
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/149/0. Flowing well; cleaning mud pits.
Flowed 19 hrs on 15/64" chk and 5 hrs on 15.5/64" chk. Total oil flowed in 24 hrs - 1156 BO, 0 BW, and 1010 MCF (GOR 874). Avg rate - 48 BO/H. Last five hrs flowed on 15.5/64" chk at rate of 50 BO/H, 2250 FTP, SICP 1655. Total flowed in 150 hrs - 5505 bbls oil and 59 BW. Washed up mud pits and salvaged approx 700 bbls 15# mud into lined earthen pit and 300 bbls tank. Remainder of pit volume was shale and cuttings. FEB 2 1971

(Cont'd)
SI 15 min - TP to 5500 psi. Choke washed out. Replaced stem and seat in chk and turned to system. Gas back press valve on treater sticking. Cleaned valve. Opened to system through gas trap. Gas trap not separating sufficiently - dumping oil to burn pit and to treater. Shut well in when heat from burn pit became hazardous to drlg rig and installations. Due to short flow period and gas trap action, unable to get flowing TP below 3,000 psi. Dug new burn pit. Extended all lines to new pit and covered old pit. Installed heat line from gas trap to wellhead to preheat flowline.

JAN 2 5 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/142/0. SI; having difficulty w/Xmas tree. Attempted to flow well. TP 5650, CP 1600. Rechecked csg and bled to 0; building back 100 psi every minute. Attempted to run FSG blanking plug; unable to get through Xmas tree. Hung on metal and tree; had to seal off and retrieve w/fishing tools. Attempted to run gauge ring; would not go. Pulled out and checked operation of Xmas tree valve; apparently operating ok. JAN 2 6 1971

Shell-Tenneco
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River-
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/143/0. Flowing to battery. Determined USI high-low master valve defective. Replaced master valve w/reg 10,000# Cameron inset valve. Ran gauge ring through tree numerous times to 75'; no obstruction. RD Hal and Marshall WL Service. Opened well to pit. Blew LW to pit and turned to installation at 2:30 p.m. on 9/64" chk. Rates are as follows:

Time	BO	BW	FTP	Chk
3-4 p.m.	12	11	4100	9/64"
4-5 p.m.	10.33	28	4200	10/64"
5-6 p.m.	23.0	0	3400	9/64"
6-7 p.m.	25.84	0	4300	6/64"
7-8 p.m.	44.23	0	4400	4/64"
8-9 p.m.	34.85	0	4300	4/64"
9-10 p.m.	14.19	0	4500	3/64"
10-11 p.m.	46.47	0	4400	2/64"
11-12 p.m.	15.49	0	4500	2/64"
12-1 a.m.	23.18	0	4500	8/64"
1-2 a.m.	23.14	0	4200	9/64"
2-3 a.m.	15.43	0	4300	8/64"
3-4 a.m.	23.14	0	4500	8/64"
4-5 a.m.	33.43	0	4350	8/64"
5-6 a.m.	23.15	0	4400	8/64"
6-7 a.m.	25.17	0	4400	8/64"

Remarks:
4-5 p.m. Installed new stem and seat in choke
6-7 p.m. Chk cutting out
12-1 a.m. Installed new trim and seat in chk
2-3 a.m. SI; working on heater treater and back press valve
Totals in 16 hrs - 396.83 BO and 39 BW with hrly avg of 24.61 B/H. CP as of 7 a.m. 1650 psi. JAN 2 7 1971

Shell-Tenneco-
Brotherson 1-3B4
(D) Brinkerhoff
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850/116/150/0. Flowing.
From 7 a.m. 2/2 to 2/3/71, flowed total of 1140 BO and 0 BW in 24 hrs. 24 hr avg - 47.5 B/H, no wtr. Total flowed in 174 hrs - 6645 BO and 59 BW.
From 7 a.m. - 8 a.m. 2/2/71, well flowed 51 BO/H, no wtr on 15.5/64" chk at 2250 FTP. SICP 1675.
At 1 a.m. 2/3/71, flowed 53 BO/H, no wtr, on 16/64" chk w/2200 FTP.
At 2 a.m. 2/3/71, changed to 12/64" chk because of temperatures and at 3 a.m. flowed 46 BO/H, no wtr on 12/64" chk w/2950 FTP.
At 7 a.m. 2/3/71, changed to 11/64" chk and flowed 36 BO/H, no wtr w/FTP 3250, SICP 1675. Avg gas rate - 931 MCF/D (GOR 816). FEB 3 1971

Shell-Tenneco
Brotherson 1-3B4
(D)
14,000' Green River
Wasatch Test
7 5/8" Liner @ 12,400'

TD 12,850. Flowing. In 24 hrs, flowed total of 952 BO, no wtr, and 179.4 MCF (GOR 824). Avg rate - 39 B/H. At 8 a.m. 2/3/71, on 11/64" chk at 3300 FTP. SICP 1675. Flowed on various chks up to 17/64". Pinched back choke from 17/64" at 5 p.m. 2/3/71 to 11/64" at 7 a.m. 2/4/71. FTP 3250, SICP 1700 psi. Total produced in 198 hrs - 7596 BO and 59 BW. Released rig 12 noon 2/2/71. FEB 4 1971

Shell-Tenneco
Brotherson 1-3B4
(D)
14,000' Green River-
Wasatch Test

TD 12,850. Flowing well to battery. FTP at 8 a.m. 2/4/71 3250, SICP 1700, 11/64" chk. At 7 a.m. 2/5/71, well flowed 625 BO, 765 MCF (GOR 1192), and 33 bbls load wtr in 20 hrs, 12/64" chk, FTP 3500, SICP 1700. Hourly rate - 31 B/H. Total produced in 218 hrs - 8220 BO and 92 BW. Shut well in 1 p.m. 2/4/71. Pumped 30 bbls 275°F fresh wtr down tbg (Hal). Max press - 5750 at rate of 1 B/M. RD Hal. Began to backflow wtr. Flowed approx 10-15 bbls cutting gas supply off, filling all gas lines w/oil. Down total of four hrs and resumed operation. FEB 5 1971

Shell-Tenneco-
Brotherson 1-3B4
(D)
14,000' Green River
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850. SI; Moving out rotary tools. Will install permanent equip before well is reopened. On 6-hr test 2/6/71, flowed 218 BO, and no wtr. (Total produced in 244 hrs - 8,438 BO and 92 BLW). FEB 8 1971
(Rept disc until well is reopened).

Shell-Tenneco
Brotherson 1-3B4
(D)
14,000' Green River-
Wasatch Test
7 5/8" Liner at 12,400'

TD 12,850. OIL WELL COMPLETE.
On 24-hr test 2/15/71, well flowed 1414 BO, 0 BW, and 1210 MCF gas (GOR 855) from the Wasatch OH interval 12,400-12,850'. Avg 24-hr rate - 58.92BO/H. (Total in 315½ hrs-14,082 BO, 92 BLW and 36 bbls diesel load). Oil Gv-43.7° @ 60° API. Chk 1". FTP 400. CP 1400. Test date 2/15/71. Completion date 1/24/71.
Elev: 6321 KB
Log Tops:
TGR_1 5660 (+661)
TGR_2 8237 (-1916)
TGR_3 9634 (-3313)
Brotherson 1-3B4 is a southwest 640-acre offset to the Miles No. 1 discovery well in the Altamont field. This well encountered lower Green River and Wasatch intervals about 200' structurally high to the Miles No. 1. The productive Wasatch interval in this well is stratigraphically slightly below the productive interval in the Miles No. 1. This well initiates production in the unit comprising all of Section 3-T2S-R4W, Duchesne County, Utah.
FINAL REPORT. FEB 1 7 1971

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

March 5, 1971

Shell Oil Company
P. O. Box 1200
Farmington, New Mexico 87401

Re: Ute Tribal land lease
14-20-H62-1774, Altamont
field, Duchesne Co., Utah

Gentlemen:

Our records show Shell Oil Company is the lessee of record of the referenced lease which includes land in sections 34 and 35 of T. 1 S., R. 4 W., U.S.M., and section 2 of T. 2 S., R. 4 W., U.S.M. Our records also show that the land in section 35 in this lease is committed to a communitization agreement for all of section 35, T. 1 S., R. 4 W.

On January 24, 1971, Shell Oil Company completed well No. 1-3B4 Brotherson located in Lot 2 (NE¼NE¼) section 3, T. 2 S., R. 4 W., for oil production in the Lower Green River-Wasatch Transition zone. The area is subject to an order dated June 17, 1970, Cause 139-1, by the Board of Oil and Gas Conservation of the State of Utah establishing 640-acre spacing for the Green River and Green River-Wasatch Transition zones.

The portions of the referenced lease located in sec. 34, T. 1 S., R. 4 W., and sec. 2, T. 2 S., R. 4 W., are now subject to drainage by the well located in sec. 3, T. 2 S., R. 4 W. Please advise this office what your plans are to protect the lease from drainage.

In view of the length of time required to drill and complete wells in the Altamont field, this office will recommend compensatory royalty be assessed on the referenced lease unless protective wells are commenced within a reasonable time in accordance with the spacing rules now in effect.

Sincerely yours,

GERALD R. DANIELS

Gerald R. Daniels,
District Engineer

cc: Utah Div. O&G Cons. ✓

April 6, 1971

Shell Oil Company
1700 Broadway
Denver, Colorado 80200

Re: Shell-Tenneco-Brotherson et al
#1-3B4
Sec. 3, T. 2 S, R. 4 W,
Duchesne County, Utah

Gentlemen:

This letter is to advise you that the electric and/or radioactivity logs for the above referred to well are due this office and as yet have not been filed.

It would be appreciated if the above logs were forwarded to this Division as soon as possible.

Thank you for your prompt attention to the above request.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SUPERVISING STENOGRAPHER

:sd

October 1, 1971

Shell Oil Company
1700 Broadway
Denver, Colorado

Re: Shell-Tenneco-Brotherson et al
#1-3B4
Sec. 3, T. 2 S, R. 4 W, USM
Duchesne County, Utah

Gentlemen:

It would be appreciated if you would forward a copy of the Synergetic Log which was run on the above referred to well.

Thank you for your cooperation with regard to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SUPERVISING STENOGRAPHER

:sd

SHELL OIL COMPANY
1700 BROADWAY
DENVER, COLORADO 80202

October 15, 1971

Utah Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed is the Synergetic Log for the Shell Brotherson 1-3B4, Altamont Field, Duchesne County, Utah, Section 3-T2S-R4W, per your request of October 1, 1971.

Very truly yours,

R. A. Flohr
Division Production Manager
Rocky Mountain Division

ARP:jrg

Enclosure

Form OGCC-1 b

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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 (Rocky Mountain Div. Production)
Tenneco 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: 1468' FNL and 1503' FEL Sec 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T 2S-R 4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302 GL, 6321 KB

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
Clean Out ~~TEST WATER SHUT-OFF~~	X	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) Run $5\frac{1}{2}$" Liner	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.) *

As per attached prognosis

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE 3/13/72
BY Cleon B Feight

18. I hereby certify that the foregoing is true and correct
SIGNED J. C. Ward TITLE Division Operations Engineer DATE March 10, 1972

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-3B4 KB-CHF 19.32'

Shoe joint started in hole at 8:30 a.m. 1/1/71.

Ran 54 jts 7 5/8" smls, HFJ casing liner to 12,398.23'.

Jts.	Wt.	Grade	ST&C LT&C New	Feet	From	To
	Burns 9 5/8" x 7 5/8"		liner hanger	2.00'	10,086.00	10,088.00
52	33.4	P-110	HSFJ	2,223.76'		12,311.76
	Baker float collar			1.18'		12,312.94
2	33.4	P-110	HSFJ	83.85'		12,396.79
	Baker float shoe			1.44'		12,398.23
			Total feet	2,312.23'		

54 Jts. Total

Baker float collar at 12,311.76 (Top)
Baker float shoe at 12,396.79 (Top)

No. Make & Type:

2 B&W centralizers spaced at 12,393' and 12,349'.

Cementing:

Broke circulation at 2:00 p.m. w/1,000 psi. Reciprocated and circulated 45 min. Cemented through shoe at 12,398' with 25 sx 1:1 poz, and 275 sx Class "G" Neat cement, treated w/4# per sx D-82, .3% D-8R, and .25% D-65. Wt. 15.8 - 14#/gal. Mixing complete in 20 min. Pressure: Max 0; min 0; avg 0. Plug down 4:15 p.m. 1/1/71. Pressure: Max 1100; min 0. Pressure to 1500 psi in 60 min. Bled back 3/4 bbls. Good returns throughout job.

REMEDIAL PROGNOSIS
SHELL ET AL BROTHERSON 1-3B4
SECTION 3-T2S-R4W
DUCHESNE COUNTY, UTAH

PERTINENT DATA:

ELEV: 6321 KB
KB-GL = 19.0'
TD = 12,850

Anticipated bottom hole pressure 6900 psi ± 12,850'. Casing and tubing volume to packer @ 12,275' = 800 bbl; hole volume from packer to TD @ 12,850' = 105 bbl. Displacement of tubing and 5½" heat string = 30 bbl.

CURRENT STATUS: Flowing - 41 B/D oil, no water on 11/64" chk w/300 psi FTP on 1/13/72.

PROPOSED WORK: Clean out and restore production capabilities. Control well, pull production equipment, squeeze 7 5/8" x 9 5/8" liner top, clean out to TD @ 12,850', run 5½" cemented liner and rerun production equipment in preparation to recomplete existing producing interval.

PROCEDURE:

1. NOTE: Prior to running WL tools in tubing, USI "Manumatic" pneumatic valve operator on upper tree master valve should be manually opened with handwheel and nitrogen supply to the operator disconnected. With gauge tubing tools, clean out and cut paraffin if necessary to as deep as indicated. With 1½" OD sinker bars and jars, run tools as deep as possible, to determine PBTD and/or if tubing is restricted above tailpipe at 12,283'.
   a. If warranted, attempt tubing cleanout with wireline tools.
2. In the event (1a) is not attempted or is unsuccessful, mix and condition 1300 bbl of 10.8 ppg mud (1300 bbl will provide approximately 350 bbl excess mud over the hole volume to TD).
3. Thru choke and with water, displace 2 7/8" x 5 1/2" and 5 1/2" x 9 5/8" annuli of glycol - water mixture and save. (2 7/8" x 5 1/2" and 5 1/2" x 9 5/8" annuli volume is approx 250 bbl).
4. Nipple up in preparation to pump mud down tubing. If possible, pump 75 bbl 10.8 ppg mud down tubing. Do not exceed 8,000 psi sfc press without press backup on 2 7/8" x 9 5/8" annulus.
5. MI&RU tubing jet perforator with collar locater. Shoot two (2) holes in 2 7/8" OD 6.5#/ft N-80 EUE tubing at 12,260' or approximately midway between packer and first tubing collar up the hole. Holes should be phased 180° and at least one (1) foot apart. POOH.
6. Thru choke and by conventional circulation, displace all annuli of water with 10.8 ppg mud. If unable to circulate, shoot holes higher. Circulate and condition until mud is of uniform 10.8 ppg weight and returns are not oil and/or gas cut. Close well in and observe to insure 10.8 ppg mud has well controlled. If sfc pressure is observed, raise mud weight and circulate and condition until well is controlled.
7. Install 2 7/8" Cameron Type "H" backpressure valve in tubing hanger. Remove Christmas tree and install 6" - 5,000 psi double BOP w/2 7/8" OD pipe ram inserts and blind rams. Install 6" 5,000 psi annular preventer. Remove backpressure valve and install test plug. Pressure test BOPE.

8. Install 2 7/8" OD 8rd EUE N-80 pickup sub with kill valve in place. Unlock 2 7/8" tubing hanger and pick up tubing.
9. Attempt to rotate out of Model "D" packer @ 12,275'. If successful, circulate & condition mud, pull tubing laying down. If unable to sting out of packer, MI&RU tubing chemical cutter with collar locater. Cut tubing off between collars and above the holes in tubing through which mud was circulated in Step 6. Circulate and condition mud. Pull tubing laying down.
10. Install 5½" Cameron type "H" backpressure valve in 5½" casing hanger. Remove 6" 5,000 BOPE and 10" 5,000 x 7 1/16" 10,000 psi tubing spool. Install 10" 5,000 psi double BOP w/5½" OD pipe ram inserts and blind rams. Install 10" 5,000 psi annular preventer. Remove backpressure valve and install test plug. Test BOPE.
11. Unlock 5½" casing hanger and pull 5½" 14#/ft K-55 8rd ST&C casing laying down.
12. Change 5½" OD pipe ram inserts to 3½" OD drill pipe work string inserts. Depending on results in Step 9, either:
    a. Run packer mill on drill pipe and retrieve Model "D", or,
    b. Run washpipe and washover fish to packer. POOH. Run fishing tools on drill pipe and retrieve tubing fish with anchor-tubing seal assembly and production tube. POOH. Run packer mill on D.P. and retrieve Model "D".
13. Set 7 5/8" drillable bridge plug at approximately 10,200'.
14. Set 9 5/8" drillable cement retainer at approx 10,000'. Prep to sqz 7 5/8" liner top at 10,086'.
15. Sting into retainer and breakdown.
16. Sqz 7 5/8" liner top with 200 sx API Class "G", 10% NaCl, with 1% CFR-2 and 0.3% HR-4.
17. Sting out and reverse out excess cement. WOC.
18. Drill out 9 5/8" retainer and cement. Pressure test 7 5/8" liner lap to 1500 psi surface pressure on 10.8 ppg mud. Resqueeze if necessary and test as above.
19. Drill out 7 5/8" BP and CO to TD at 12,850'. Condition mud and prepare to run 5½" liner. Run open hole caliper log.
20. Run 5½" 20# N-80 SFJ-P liner assembly as follows:
    a. Plain guide shoe
    b. One joint 5½" 20# N-80 SFJ-P liner
    c. Float collar
    d. 436' 5½" 20# N-80 SFJ-P liner
    e. Hanger
21. Run liner to TD at 12,850. Pick up approx 5', establish circulation and hang liner with top at approx 12,363.
22. Cmt 5½" liner w/minimum 150 sx or 50% excess, depending on caliper, of API Class "G", 10% NaCl, 1% CFR-2 and 0.4% HR-4. WOC 24 hrs. CO to top of 5½" liner & test to 1,000 psi on 10.8 ppg mud. Resqz if necessary & test as above.
23. CO 5½" liner to 12,845. Pressure test to 1,000 psi.
24. Displace 10.8 ppg mud with inhibited fresh water to PBTD 12,845'.
25. On electric line, run and set 7 5/8" Baker Model "D" pkr with flapper at approx 12,200'. Install 5½" pipe ram inserts.
26. Run approximately 4,000' 5½" 14# K-55 heat string, land and packoff. Install BP valve. Remove 10" BOPE. Install tubing spool and 6" BOPE with 2 7/8" ram inserts. Remove BP valve, install test plug and test BOPE.
27. Run production equipment as follows:
    a. Baker Model "C" plug receptacle with Model "B" knockout plug in place, shop tested to 9,000 psi differential both ways.
    b. 10' long x 2 7/8" OD nonperforated production tube.
    c. Baker anchor-tubing seal assembly with two seal units.
    d. Baker Model "FL" on-off seal connector with 2.250" plug receptacle <u>without</u> plug.
    e. Approximately 12,200' 2 7/8" OD N-80 EUE tubing, tested on way in to 7500 psi.

28. Sting into packer, space out for landing with 0 to 5,000 lbs weight on pkr. - land and lock in. Remove BOPE, install and nipple up 10,000 psi WP Xmas tree. Test tree and tubing to 7,500 psi.
29. MOCR.

NOTE: A prognosis for perforating and stimulating will be issued later.

GPD:ch
1/24/72

DIV. O.E. _____

DIV. P.E. _____ 2/4/72

Division Drilling Superintendent

Drilling Foreman

Attachments: Drawing Z16-1545-A
Wellhead Drawing
Memorandum: Inhibition of water in well annuli.

Z16-1545-A

BROTHERSON NO. 1-3B4
ELEV. 6321 K.B.
K.B. - G.L. = 19.0 FT.

AS COMPLETED
FEBRUARY 1, 1971

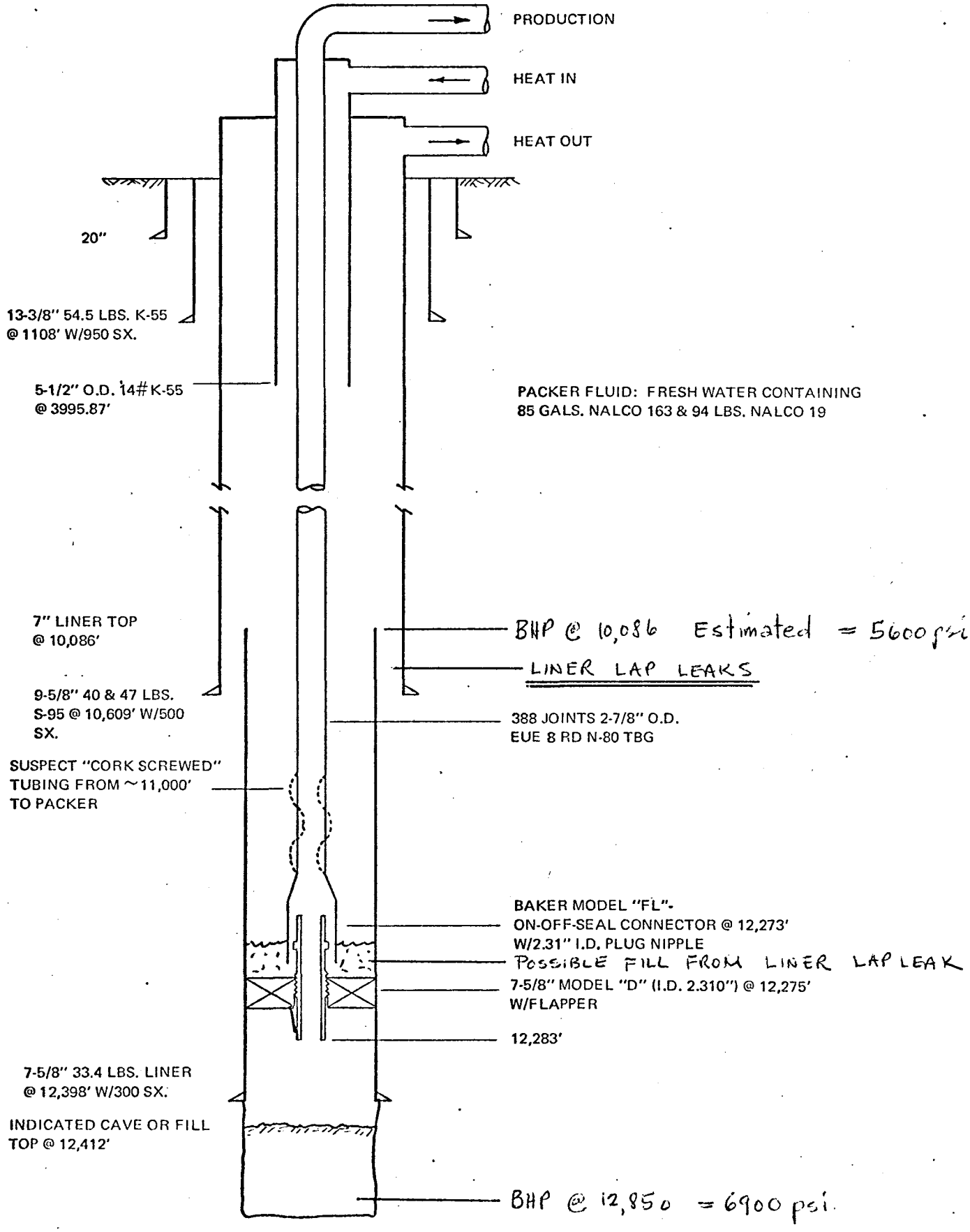
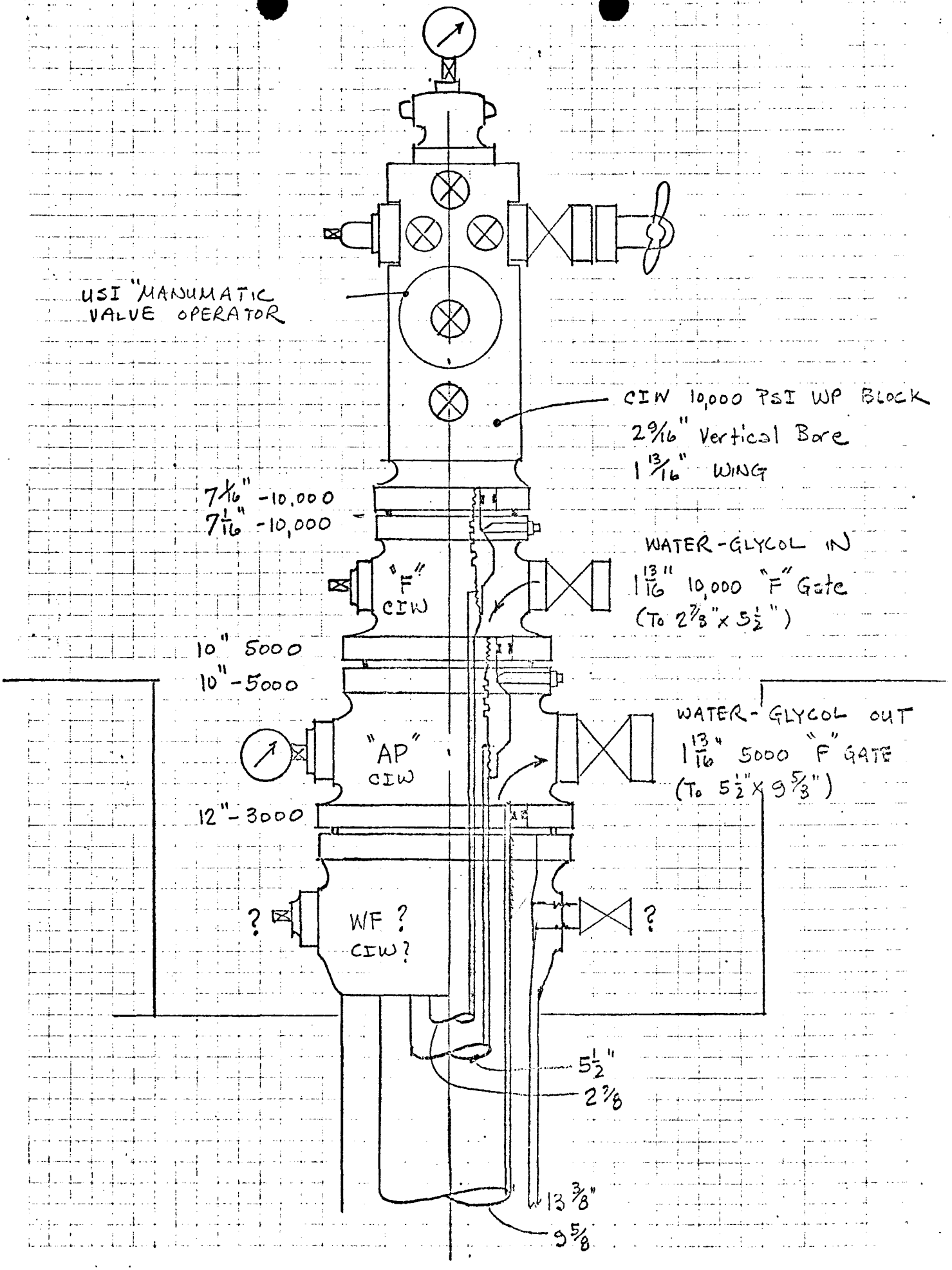


FIGURE 2

BROTHERSON 1-3B4



DRAFT

SHELL OIL COMPANY

REFERENCE

DATE SEPTEMBER 17, 1971

TO ALL FIELD FOREMEN

FROM DIVISION PRODUCTION SUPERINTENDENT
ROCKY MOUNTAIN DIVISION

SUBJECT INHIBITION OF WATER
IN WELL ANNULI

Water permanently loaded in the tubing-casing annular space of wells is treated to remove oxygen and minimize corrosion with Tretolite and Visco chemicals. Normally, fresh water is used, but sodium chloride brine is occasionally more readily available. We are therefore restating below the recommended quantities of oxygen scavenger and corrosion inhibitor chemical to be used with either fresh or salt water.

COMPANY	CHEMICAL	PURPOSE	FRESH WATER	SATURATED BRINE (10.1 PPG NaCl WATER)
Tretolite	K-700	Inhibitor	13 qt/50 bbl	13 qt/50 bbl
	K-470	Scavenger	20#/200 bbl	10#/200 bbl
Visco	M-15-C	Inhibitor	13 qt/50 bbl	13 qt/50 bbl
	3601 Pulverized	Scavenger	20#/200 bbl	10#/200 bbl

The Visco chemicals are the same as used in the past. The names, however, have been changed from Nalco 163 and Nalco 19. Either scavenger chemical is available in 100# containers and each may be used with the other company's inhibitor if necessary.

C. L. Creager C. A. Wischoff

TAS/kl

cc: I. B. Boaz
J. C. Howell
D. W. Solmonson

SM-32 (Rev. 9-67)

DRAFT

REFERENCE

SHELL OIL COMPANY

DATE SEPTEMBER 17, 1971

TO ALL FIELD FOREMEN

FROM DIVISION PRODUCTION SUPERINTENDENTS
ROCKY MOUNTAIN DIVISION

SUBJECT INHIBITION OF WATER
IN WELL ANNULI

Water permanently loaded in the tubing-casing annular space of wells is treated to remove oxygen and minimize corrosion with Tretolite and Visco chemicals. Normally, fresh water is used, but sodium chloride brine is occasionally more readily available. We are therefore restating below the recommended quantities of oxygen scavenger and corrosion inhibitor chemical to be used with either fresh or salt water.

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	K-470	Scavenger	20#/200 bbl	10#/200 bbl
Visco	M-15-C	Inhibitor	13 qt/50 bbl	13 qt/50 bbl
	3601 Pulverized	Scavenger	20#/200 bbl	10#/200 bbl

The Visco chemicals are the same as used in the past. The names, however, have been changed from Nalco 163 and Nalco 19. Either scavenger chemical is available in 100# containers and each may be used with the other company's inhibitor if necessary.

C. L. Creager C. A. Wischoff

TAS/kl

cc: I. B. Boaz
J. C. Howell
D. W. Solmonson

Form OGCC-1 b

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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 (Rocky Mountain Division Production)

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: 1468' FNL and 1503' FEL and 266' from center of NE/4 Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Brotherson et al (Unit)

8. FARM OR LEASE NAME: W. N. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302 GL, 6321 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) Clean out and run 5½" liner			[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.) *

Cleaned out to TD 12,850'. Repaired 7-5/8" liner hung at 12,400' and ran 5-1/2" liner to 12,850" with top of liner at 12,359'. Liner not cemented.

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

SIGNED K R Gruder TITLE Division Operations Engr. DATE June 16, 1972

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

CO TO TD AND RNG OF 5½" LINER

SHELL OIL COMPANY

FROM: 4-12 - 6-7-72

LEASE SHELL-TENNECO-BROTHERSON WELL NO. 1-3B4
DIVISION ROCKY MOUNTAIN ELEV 6321 KB
COUNTY DUCHESNE STATE MONTANA

ALTAMONT

JUN 14 1972

UTAH

ALTAMONT FIELD

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

"FR" TD 12,850. RU Ford Rig. AFE #58108 provides funds to run and cmt 5-1/2" liner, repair 7-5/8" liner, clean out to 12,850' and recomplete existing productive interval. APR 11 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. RU and heating wtr in 9-5/8" x 5-1/2" csg annulus. Displaced glycol wtr in 9-5/8" x 5-1/2" csg annulus w/fresh wtr. Cleaned mud pits. APR 12 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Installing BOP's. RU Wireline paraffin scraper. Cleaned 2-1/2" tbg to 6900' while circ 5-1/2" x 9-5/8" csg annulus w/hot wtr. Ran chem cutter. Cut 2-1/2" tbg @ 12,226'. Unable to break circ. Ran 2-1/8" jet gun. Perf'd 2-1/2" tbg w/3 holes @ 12,056'. Gun stuck. Killed well w/11 ppg mud. Worked gun loose, pulling same.
Mud: 11.0 x 37 APR 13 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Running blank tbg to lay running plug. Finished installing BOP's and tested to 4500 psi, held OK. Circ mud. Took hold of 2½" tbg - found tbg free. Pulled and measured out 12,229' of tbg. Laid down cut-off jt and jt w/3 jet holes.
Mud: 11 x 37 APR 14 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850.
4/15: Testing BOP's. Finished running tbg to 10,779'. Mixed and pumped 50 cu ft Class "G" (15.8# slurry). CIP @ 9:34 AM. Pulled above 7-5/8" liner. Reverse circ while curing cmt. Top of cmt @ 10,648. Press tested csg - taking fluid @ 400 psi. Circ 9-5/8" x 5-1/2" csg annulus. Removed BOP's and tbg head. Reinstalled BOP's on 5-1/2" csg hd and started testing.
Mud: 11 x 36
4/16: Cond mud. Finished testing BOP's to 4500 psi, held OK. Singled down 5½" heat string. Changed pipe rams from 5½" to 2½". WO BOP repairs for 8 hrs. Rigged up and ran 8½" bit and scraper on two 4-3/4" DC's to top of 7-5/8" liner.
4/17: Nippling up BOP stack. Pulled bit and ran pkr to 9980'. Tested top of 7-5/8" liner hanger to 3500 psi - held OK. Tested annulus to 1500 psi - held OK. Pulled work string and raised BOP's. Installed spacer spool. APR 17 1972

pw

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Prep to drill out cmt plug. Tested BOP's to 4500 psi and Hydril to 3000 psi for 10 min, held OK. Tagged cmt plug @ 10,645'. Increased mud wt to 11.2 ppg.
Mud: 11.2 x 43 APR 18 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Repairing rig. Raised mud wt from 10.8 to 11.3 ppg. Drld cmt stringers from 10,527-10,635, and hd cmt from 10,635-10,663. Lost key out of main sprocket on drum shaft. Rig down 13 hrs for repair.
Mud: 11.3 x 35-45. APR 19 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Repairing rig. Repaired drum shaft and drld 10' cmt to 10,673. Power source on power swivel broke. WO replacement. APR 20 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and restore prod capabilities)

TD 12,850. Scraping wall of csg @ 12,226. Drld firm cmt from 10,673-10,812 - fell into hole.
Mud: 11.5 x 45 APR 21 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and run 5" liner)
7-5/8" liner @ 12,400'

TD 12,850.
4/22: Washing over fish. Ran 6½" bit to top of tbg fish @ 12,229'. Cond mud, pulled bit and measured out. Ran 2 jts 6-3/8" wash pipe and four 4-3/4" DC's.
Mud: 11.5 x 45
4/23: Pulling fish. Washed over tbg-pkr fish @ 12,281. Cond mud. Ran socket, jars, bumper sub and four 4-3/4" DC's. Circ mud up from btm. Jarred tbg-pkr fish twice and freed same. Started pulling fish.
Mud: (gradient .615) 11.8 x 44 x 14
4/24: Pulling wash pipe. Finished pulling socket, rec 44 jts 2-1/2" tbg w/Baker on-off tool. Ran 6-3/8" TC shoe on 2 jts 6-3/8" wash pipe and four 4-3/4" DC's. Washed over Baker Model "D" pkr. Pumped pkr 25' up hole while circ in revers. Lost 50 bbls mud last 24 hrs.
Mud: (gradient .625) 11.8 x 38 x 14 APR 24 1972
Correction of status on 4/21 report: Scraping wall of csg @ 10,882 (top of fish @ 12,226)

Shell-Tenneco
Brotherson 1-3B4
(Clean out and run 5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Running wash pipe. Model "D" pkr @ 12,250'. Finished pulling wash pipe. Ran socket, bumper sub, jars and four 4-3/4" DC's. Took hold of pkr fish, worked and jarred same. After 3 hrs, tools pulled free. Rec'd 6-3/4" of on-off mandrel. Started running 6-3/4" wash pipe w/tungsten carbide washover shoe.
Mud: (gradient .625) 11.8 x 35 x 14 APR 25 1972

Shell-Tenneco
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Tripping out of hole. Finished running wash pipe w/TC shoe. Washed over pkr-fish, working and milling on fish from 12,250-12,291. Pulled wash pipe and ran socket, bumper sub, jars and DC's. Circ mud in reverse from btm to top of pkr fish. Lost 60 bbls mud last 24 hrs.
Mud: (gradient .625) 11.8 x 38 x 14 APR 2 6 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Cond mud. Finished reverse circ from btm. Rec'd Model "D" pkr and accessories. Laid down wash pipe and fishing tools. Checked BOP's. Removed stripper and installed rotating head. Ran 6½" bit on ten 4-3/4" DC's to 12,150'.
Mud: (gradient .625) 11.8 x 40 x 12 APR 2 7 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Pulling bit. Finished cond mud. Ran in from 12,150 to fill and jk from pkr @ 12,223 and cleaned out to 12,403. Rec'd approx 5# jk while reverse circ. Lost approx 50 bbls mud last 24 hrs.
Mud: (gradient .612) 11.7 x 45 x 6 APR 2 8 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850.
4/29: Repairing power swivel. Ran new bit and cleaned out from 12,403-12,452. Power swivel failed. Repaired same, ran 1 hr and swivel failed again. Changed out and started up when hose on swivel failed. Lost 20 bbls mud.
Mud: (gradient .625) 11.8 x 42 x 12.5
4/30: Cleaning out open hole and circ in reverse. Finished repairing power swivel. Cleaned out bridges from 12,452-12,465. Gas show @ 12,465. Cleaned out to 12,499 and circ out gas. Cleaned out to 12,532, circ gas out. Changed stripper rubber. Cleaned out from 12,532-12,564. Had strong gas show @ 12,564. Lost approx 100 bbls mud
Mud: (gradient .625) 11.8 x 42 x 12.5
5/1: Increasing mud wt. Cleaned out from 12,564-12,595, circ in reverse. Cleaned out from 12,595-12,625, circ in reverse. Cleaned out from 12,625-12,657. Gas in mud increased. Raised mud wt from 11.8 to 12.1 ppg. Cleaned out from 12,657-12,688. Gas in mud increased. Raised mud wt to 12.5 ppg.
Mud: (gradient .675) 12.6 x 48 x 7.8 (2% oil) MAY 1 1972

pw

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Tripping in hole w/bit. Finished raising mud wt to 12.5 ppg. Cleaned out from 12,719-12,750. Reverse circ hole clean. Cleaned out from 12,750-12,781. Reverse circ hole clean. Cleaned out from 12,781-12,812 (hard bridge). Reverse circ hole clean. Cleaned out from 12,812-12,850. Reverse circ hole clean. Cond mud and reverse circ 3 hrs. RU and ran caliper log. Now running in w/bit and stabilizer.
Mud: (gradient .655) 12.6 x 49 x 8 (2% oil) MAY 2 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5" liner)
7-5/8" liner @ 12,400'

TD 12,850. Running liner. Finished running 6½" bit and stabilizer. Broke circ @ shoe. Circ and cond mud from 12,850. Pulled bit and made up 5½" N-80 SFJ-P liner w/Burns hanger.
Mud: (gradient .655) 12.6 x 46 x 8.6 (2% oil) MAY 3 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'

TD 12,850. Cond mud prior to hanging liner. Ran 482' of 5½" N-80 20# SFJP liner. Ran and hung Baker Oil Tools differential fill shoe and collar w/6.20' plain type Burns liner hanger - no packing - w/12,362' 2-7/8" 8rd EUE tbg. Liner top @ 12,362 (tie back). Collar 126.09' above shoe. Lap between 5-1/2" and 7-5/8" liner = 36'. Tagged btm, picked up 3' and circ btms up. Cut mud from 12.7 to 6.0 ppg, then raised mud wt to 13.0. MAY 4 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Cond mud and prep to perf. Tagged btm w/liner and stacked out 10,000#, setting liner. Picked up two 4-1/8" x 2" DC's, top sub and 4-1/2" washover shoe. Drld out FC. Work string plugged. Circ. Cut mud to 11.1.
Mud: 13.0 (11.1) x 50 x 7.0 MAY 5 1972

pw

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850.
5/6: Perforating. Tripped out w/work string. Ran collar locator and BHCS/GR from 12,850-12000 (logger's depth 12,853). Found 5½" liner top @ 12,366'.
Mud: 13.0 x 50 x 7
5/7: Prep to run 5½" heat string. Perf'd interval 12,412-12,842 using 3-1/8" gun, 10 gr charges w/4 shots/ft w/select perfs as follows: 12,412-415, 12,417-422, 12,428-430, 12,439-441, 12,442-444, 12,446-448, 12,452-457, 12,467-472, 12,476-481, 12,484-486, 12,502-504, 12,512-514, 12,522-524, 12,526-529, 12,530-532, 12,535-536, 12,539-541, 12,555-561, 12,559-561, 12,582-584, 12,629-633, 12,658-663, 12,692-695, 12,710-712, 12,713-715, 12,731-732, 12,734-736, 12,747-749, 12,751-754, 12,757-759, 12,773-775, 12,776-778, 12,795-797, 12,803-806, 12,822-830, 12,832-838, 12,840-842. Set Baker Model "D" pkr w/flapper @ 10,040. Ran tbg to 7500'. Circ mud to break out gas.
5/8: Running prod tbg. Ran 123 jts 5-1/2" 14# K-55 ST&C csg to 3981. Installed backpress valve. Removed BOP's and installed tbg spool. Installed BOP's. Laid down 80 jts 2-7/8" tbg.
Mud: 13.0 x 50 x 7 MAY 8 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Removing rig from well. Finished running prod string. Tested to 7500 psi. Displaced mud w/inhibited wtr. Landed tbg w/4000# wt. Installed and tested Xmas tree w/7500 psi. Prod string detail: 1.50' exp plug holder, 10' prod tbg, 3.55' seal assembly, 2.24' on-off tool, 5.10' 2-7/8" tbg pup, 324 jts N-80 (10,035.83') 2-7/8" 8rd EUE tbg, 19' derrick floor. Total string: 10,077.22'. Three centralizers above on-off tool on tbg. MAY 9 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Released rig @ 2:30 PM 5/9/72. Finished RD, stacking rig and eqmt at end of well location. RDUFA. MAY 10 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. (RRD 5/10/72) Prep to flow to battery. SITP 2950 psi. Cleaned up location. Hooked up flowlines and prep battery for oil. RU Marshall WL. Press tested tbg to 2500 psi. Knocked out plug @ 10,052' and pulled out of hole. Opened well to pit. Flowed 125± bbls wtr and mud on various chks and press's, then started flowing oil and gas. MAY 11 1972

pw

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. SITP 2950 psi. Flowed est 10 BO to pit. Hooked well to battery. On 12-hr test, well flowed 203 BO on 16/64" chk w/1700 psi FTP. MAY 1 2 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850.
5/13: SI for BHP. SITP 4050. Flowed well at various chks and press w/incr in oil, gas and TP after flowing total of 25 hrs. Press went from 450 psi on 30/64" chk to 3700 psi on 12/64" chk and flowed 500 BO w/est 1 MMCF gas in 15½ hrs. RU Cable and ran BHP, setting tools @ 12,000'. Flowed well 1 hr and SI. SITP 4800 psi. Pmpd 36 bbls diesel @ 1 B/M w/6500 psi to back down well. SI for 72-hr build-up.
5/14: SI for BHP. SITP 4050 psi. MAY 1 5 1972
5/15: SI for BHP. SITP 4200 psi.

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Well SI. Installing new treating facilities. Pulled bombs. SITP 4200 psi. MAY 1 6 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. SI 24 hrs for battery installation.
MAY 1 7 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 749 BO and no wtr on 24/64" chk w/1650 psi FTP and zero CP. Gas too great to measure w/present orifice plate.
MAY 1 8 1972

pw

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 1955 BO and no wtr w/2246 MCF gas on 28/64" chk w/1300 psi FTP and zero CP. Correction and addition to yesterday's report: On 10-hr test, flowed 749 BO plus 150 BO to fill treater and no wtr on 24/64" chk w/1650 psi FTP and zero CP.

MAY 1 9 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr tests, flowed as follows:

Date	BO	BW	MCF Gas	Chk	FTP	CP
5/20	1816	0	2454	28/64"	1150	0
5/21	1231	0	1147	12/64"	3000	0
5/22	454	0	377	6/64"	3900	0

MAY 2 2 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 256 BO and no wtr w/323 MCF gas on 6/64" chk w/3700 psi FTP and zero CP. MAY 2 3 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 615 BO and no wtr w/1234 MCF gas on 16/64" chk w/2250 psi FTP and zero CP. MAY 2 4 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 1225 BO and no wtr w/1354 MCF gas on 16/64" chk w/2250 psi FTP and zero CP. MAY 2 5 1972

Shell-Tenneco-
Brotherson 1-3B4
(Clean out and run
5½" liner)
7-5/8" liner @ 12,400'
5-1/2" liner @ 12,850'

TD 12,850. Flowing. On 24-hr test, flowed 704 BO and no wtr w/364 MCF gas on 6/64" chk w/2700 psi FTP.

MAY 2 6 1972

Shell-Tenneco-
Brotherson 1-3B4
(CO & run 5½"
liner)

TD 12,850. SI due to oil curtailment.
Rates are as follows:

Date	BO	BW	MCF	Choke	FTP	CP
5/26	253	0	333	6/64"	2675	0
5/27	585	0	644	8/64"	3450	0
5/28	143	0	240	8/64"	SI 2200 (3900 SIP)	
5/29	SI due to oil curtailment					

MAY 3 0 1972

Shell-Tenneco- Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. SI 24 hrs. MAY 3 1 1972
Shell-Tenneco Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. Shut in. JUN 1 1972
Shell-Tenneco- Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. SI. SITP 4000. JUN 2 1972
Shell-Tenneco- Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. 6/3: SI 6/4: On 18-hr test, flowed 595 BO, 0 BW, and 630 MCF on 12/64" chk w/2950 FTP and 0 CP. JUN 5 1972
Shell-Tenneco- Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. SI. On 12-hr test, well flowed 365 BO and no wtr w/506 MCF gas on 12/64" chk w/3750 psi SITP. JUN 6 1972
Shell-Tenneco- Brotherson 1-3B4 (CO & run 5½" liner)	TD 12,850. CLEANING OUT TO TD AND RUNNING OF 5½" LINER COMPLETE. On 24-hr test 4/9/72 prior to remedial operations, well flowed 348 BO on 11/64" chk w/75 psi FTP and 525 psi CP from 12,400-12,850'. On 24-hr test ending 6/5/72, well flowed 884 BO and no wtr w/1013 MCF gas on 12/64" chk w/2900 psi FTP from following perfs in uncmtd liner: 12,412-415, 12,417-422, 12,428-430, 12,439-441, 12,442-444, 12,446-448, 12,452-457, 12,467-472, 12,476-481, 12,484-486, 12,502-504, 12,512-514, 12,522-524, 12,526-529, 12,530-532, 12,535-536, 12,539-541, 12,555-561, 12,559-561, 12,582-584, 12,629-633, 12,658-663, 12,692-695, 12,710-712, 12,713-715, 12,731-732, 12,734-736, 12,747-749, 12,751-754, 12,757-759, 12,773-775, 12,776-778, 12,795-797, 12,803-806, 12,822-830, 12,832-838 and 12,840-842. FINAL REPORT. JUN 7 1972

CASING OR LINER CEMENT JOB

Lease Bratherson Well 1-3 B4 Date 5-9-72

Size Casing 5½" - 20# Setting Depth 12847' Top (liner hanger) 12359'

Hole Size 6½" Mud Gradient 13# Viscosity 45

Casing Equipment

Baker self Fill up Float shoe, Float Collar float located 126' feet

above shoe, _____ DV collars located at _____ feet

and _____ feet.

_____ centralizers located 12' above shoe - and every 100' to shoe of 7⅝ csg.

_____ scratchers located _____

Liner hanger and pack off (describe) Burns plain hanger w/cmt. grooves and 2-½" holes. 2- B&W blade centralizers on 5½ - csg

~~Miscellaneous (baskets, etc.)~~ in lap of 7⅝" csg -

Cement (around shoe) Did Not Cement -

	No. Sacks	Brand	Type	Additives	Slurry Weight	Slurry Volume
(1)						
(2)						

Cement through DV Collar at _____ feet

	No. Sacks	Brand	Type	Additives	Slurry Weight	Slurry Volume
(3)						
(4)						

Form OGCC-1 b

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

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 (Rocky Mountain Division Production)

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
1468' FNL and 1503' FEL and 266' from center of NE/4 Sec 3

5. LEASE DESIGNATION AND SERIAL NO.
Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Brotherson et al (Unit)

8. FARM OR LEASE NAME
W. N. Brotherson, Jr.

9. WELL NO.
1-3B4

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW/4 NE/4 Section 3-T 2S-R 4W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6302 GL, 6321 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) Repair of Tbg Leaks			[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.) *

As per attached report

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

SIGNED K. R. Gruber TITLE Division Operations Engr. DATE Sept. 19, 1972

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

REPAIR OF TBG LEAK — ALTAMONT

SHELL OIL COMPANY-TENNECO | LEASE BROTHERSON | WELL NO. 1-3B4

DIVISION ROCKY MOUNTAIN | ELEV 6321 KB

FROM: 6-21 - 7-11-72 | COUNTY DUCHESNE | STATE UTAH

UTAH

ALTAMONT

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

"FR" TD 12,850. Prep to fish setting tool on WL. AFE No. 583647 provides funds to repair tbg leak. On 6/11/72, MI&RU Nowsco and hot oiler, prep to clean paraffin from 2-7/8" tbg. Ran 3/4" continuous tbg to 4000' while circ 1/4 B/M 250° 10/8 ppg SW. Packoff for tbg started leaking. RD&MO Nowsco. Pmpd 20 bbls 250° 10.8 ppg SW down tbg. MI&RU Marshall WL and ran 2-5/16" OD cutter to 8000' - no paraffin. Pulled out of hole and ran overshot - could not get in well due to paraffin. Pmpd 65 bbls 250° FW down 5½" heat string. Ran overshot, engaged fish and started jarring, shearing pin in fishing tool. Replaced shear pin and ran back in hole, engaging fish. Started jarring and again sheared pin in overshot. Pulled out of hole. JUN 12 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. MI workover rig. Bled off csg as required to keep SICP below 1500 psi. Pmpd 65 BFW (275°F) down 2-7/8" x 5-1/2" annulus. Ran overshot on .092" WL and engaged fish. Jarred approx 1 hr and sheared pin in overshot. Pulled out of hole. Ran back in and jarred for 2 hrs and intentionally sheared off fish. Changed wire spacing on sheaves and put on hyd jar. Ran back in hole and jarred on fish 2 hrs. RD&MO Marshall WL. JUN 13 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Prep to resume jarring. MI&RU Ford Tool rig. MI&RU OWP. Pmpd 60 bbls (275°) FW down 5½" heat string. Press tested lubricators to 3500 psi. Ran in w/overshot, larger hyd jars and add'l wt and jarred on setting tools 1½ hrs. Jars appeared to be weakening. Sheared pin in overshot and pulled out of hole. JUN 14 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. WO availability of mud. Ran back in w/ overshot and jars, jarring on fish 4 hrs. Sheared pin in overshot. RD&MO OWP and Ford. RDUFA. JUN 15 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. (RRD 6/15/72). WO workover rig. MI&RU hot oiler and pmpd 80 bbls 250°F FW down 5½" heat string. MI&RU OWP and perf 4 holes in tbg @ 10,017-10,024. SITP dropped from 2400 to 2100 psi when holes perf'd. CP incr from 500 to 550 psi. Pulled out of hole and RD&MO OWP and hot oiler. MI&RU Hal. Displaced hole to 10,017 by pmpg 700 bbls 16 ppg mud down tbg and hot annuli. Max press 2000 psi. ISIP on tbg and annuli zero. RD&MO Hal. RDUFA. JUN 19 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. (RRD 6/19/72). Laying down tbg. MI&RU Ford pulling unit 6/21. Circ 30 bbls 16 ppg mud down tbg and up 5½" csg and 20 bbls 16 ppg mud down tbg and up 9-5/8" csg. Installed 2½" BP valve, removed tree, installed and press tested 10" 5000 psi BOP's. Removed BP valve, unlatched from Model "D" pkr and started laying down tbg. JUN 22 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Prep to pull 5½" heat string. Finished pulling tbg and seal assembly. Found no-go ring on setting tool lodged in seal bore of "F" nipple. No-go ring not properly sized for 2.25" "F" nipple. Started running tbg w/new prod tube, anchor seal assembly and on-off tool w/expendable plug holder on btm of prod tube w/plug in place. Ran tbg, filling every 10 jts w/ FW. Press tested every 30 jts to 7500 psi w/pump truck. Ran 30 jts tbg and filled tbg w/FW when on-off tool blew apart @ 5800 psi while attempting to press test. Pulled out of hole and picked up 2-7/8" tbg, standing back in dbls. JUN 23 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850.
6/24: Pulling tbg and fish. Pulled and laid down 5½" heat string. Ran in w/7-1/8" OD overshot on 2-7/8" tbg. Fished on-off tool hanger. Latched onto fish and rotated stinger out of Model "D" after 3 attempts. Pulled very jerkily for first jt off btm. Pulled 10 stds.
6/25: Finished pulling tbg and fish. Skirt on overshot looked OK and stinger indicated on seals that it had been in pkr bore. Picked up and ran back in w/4000' 5½" csg heat string. Installed BP valve, removed BOP's, installed tbg spool, installed and tested BOP's w/2-7/8" pkr.
6/26: Prep to land tbg and flange up WH. Ran 2-7/8" EUE N-80 tbg w/Baker expendable plug holder on btm w/plug in place, 5' 2-7/8" N-80 10rd non-upset perf'd prod tube, anchor seal assembly w/2 seal units, Baker on-off tool connector, 328 jts 2-7/8" EUE N-80 tbg and latched into Model "D" pkr. Spaced out w/3 pts wt on pkr. Set down 20,000# and pulled 20,000# to test latch-in. Press tested tbg and plug to 7500 psi while running in hole. Press tested tbg, plug and pkr to 7500 psi for 15 min, held OK. Unlatched from on-off connector, pulled up 10', circ 16 ppg mud out of hole w/900 bbls 80° F FW and circ w/add'l 700 bbls FW containing 13 qts Visco M-15-C w/50 bbls FW and 20# Nalco 3601 per 200 bbls FW. JUN 26 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing to battery. Landed tbg on donut, locking in same. Installed BP valve, removed BOP's and installed tree. Tested tree to 10,000 psi. Removed BP valve. Tested tbg, pkr and tree to 7500 psi for 10 min, held OK. Press tested csg to 2000 psi for 10 min, held OK. RD Ford. Released rig 2 PM, 6/26/72. Hooked up all service lines. RU Marshall WL and press'd tbg to 2500 psi, knocking out expendable plug @ 10,047', gaining 200 psi press when plug knocked out. Pulled out of hole. On 14-hr test, well flowed 784 BO and 96 BW w/ 1540 MCF gas on 38/64" chk w/550 psi FTP and zero CP.
JUN 27 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr test, flowed 1275 BO and 4 BW w/1735 MCF gas on 38/64" chk w/550 psi FTP and zero CP. JUN 28 1972

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr test, flowed 1542 BO and no wtr w/1674 MCF gas on 40/64" chk w/500 psi FTP and zero CP. JUN 29 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair csg leak)

TD 12,850. Flowing. On 24-hr test, flowed 332 BO and no wtr w/576 MCF on 10/64" chk w/3100 psi FTP, 0 CP.

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr tests, well flowed as follows:
JUL 3 1972

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/1	458	0	549	10/64"	3100	0
7/2	410	0	462	10/64"	3150	0
7/3	408	0	509	10/64"	2850	0

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr tests, well flowed as follows:
JUL 5 1972

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/4	456	0	554	10/64"	2750	0
7/5	428	0	541	10/64"	2650	0

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr test, well flowed 538 BO and no wtr w/549 MCF gas on 10/64" chk w/25 psi FTP and zero CP. JUL 6 1972

Shell-Tenneco-
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr test, flowed 435 BO, 0 BW, and 563 MCF on 10/64" chk w/2500 FTP, 0 CP. (Correction to yesterday's wire - FTP should have been 2500 instead of 25 psi) JUL 7 1972

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. On 24-hr tests, well flowed as follows:

Date	BO	BW	MCF Gas	Chk	FTP	CP
7/8	530	0	563	10/64"	2500	0
7/9	459	0	549	10/64"	2350	0
7/10	485	4	536	10/64"	2350	0

Correction to Friday's report: On 24-hr test, well flowed 485 BO instead of 435 BO. JUL 1 0 1972

Shell-Tenneco
Brotherson 1-3B4
(Repair tbg leak)

TD 12,850. Flowing. REPAIR OF TUBING LEAK COMPLETE. On 24-hr test ending 7 AM, 7/11/72, well flowed 467 BO and no wtr w/518 MCF gas on 10/64" chk w/2400 psi FTP and zero CP from Wasatch OH 12,400-12,850. FINAL REPORT. JUL 1 1 1972

SHELL OIL COMPANY
PRODUCTION LABORATORY WATER ANALYSIS REPORT
DENVER, COLORADO

FROM: - PRODUCTION LABORATORY
DENVER, COLORADO

TO: _____

LABORATORY NUMBER 4923-3
SAMPLE TAKEN _____
SAMPLE RECEIVED December 30, 1970
RESULTS REPORTED January 7, 1971

SAMPLE DESCRIPTION
FIELD NO. _____
COMPANY Shell Oil Co. LEASE Brotherson WELL NO. 1-3B-4
SW NE SEC. 3 TWP. 2S RGE. 4W SUR. _____
DISTRICT _____ FIELD Wildcat COUNTY Duchesne STATE Utah
SAMPLE TAKEN FROM
PRODUCING FORMATION Wasatch TOP 12,244 - 12,349 SEC 3-2S-4W
REMARKS DST - MFE Sample

SAMPLE TAKEN BY _____

CHEMICAL AND PHYSICAL PROPERTIES

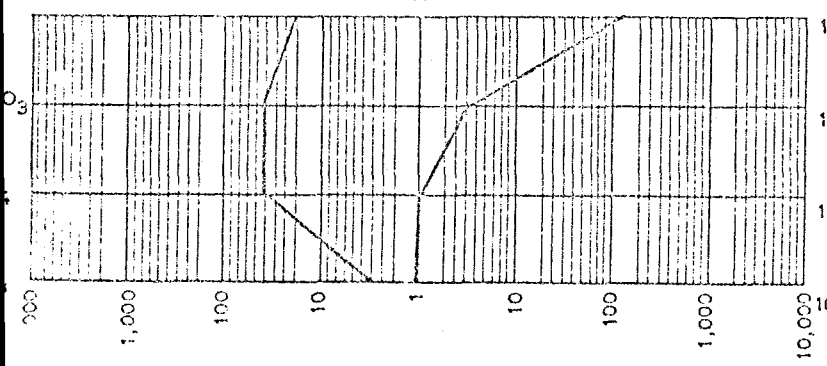
SPECIFIC GRAVITY @60/60° F. 1.009 pH 8.6 RES. 1.08 OHM METERS @ 77°F

TOTAL HARDNESS Mg/L as $CaCO_3$ 249 TOTAL ALKALINITY Mg/L as $CaCO_3$ 2600

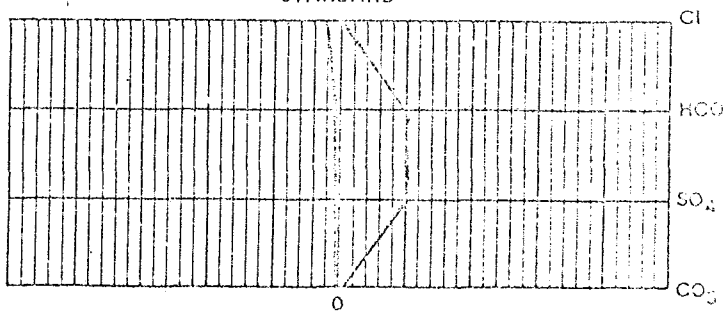
CONSTITUENT	MILLIGRAMS PER LITER Mg/L.	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	75	3.74		
MAGNESIUM - Mg^{++}	15	1.23		
SODIUM - Na^{+}	2683	116.73		
BARIUM (INCL. STRONTIUM) - Ba^{++}	0	-		
TOTAL IRON - Fe^{++} AND Fe^{+++}	-	-		
BICARBONATE - HCO_3^{-}	2928	48.02		
CARBONATE - CO_3^{--}	120	4.00		
SULFATE - SO_4^{--}	2333	48.53		
CHLORIDE - Cl^{-}	750	21.15		
TOTAL DISSOLVED SOLIDS	8904	243.40		

MILLEQUIVALENTS PER LITER

LOGARITHMIC



STANDARD



( ) AREA OFFICE ( ) DISTRICT OFFICE
( ) EXPLORATION MANAGER ( ) DISTRICT GEOLOGIST
( ) DIVISION OFFICE ( ) SHELL DEVELOPMENT - EPR
( ) DIVISION EXPL. MANAGER

ANALYST R.B. Charna
CHECKED C.E. Davis

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: 1468' FNL and 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.: 43-013-30048

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302 GL, 6321 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	[ ]
~~XXXXXX~~ 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.) *

As per attached prognosis

cc: USGS - W/attachment (for information)

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION
DATE NOV 22 1974
BY C. B. Feight

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

SIGNED [signature] TITLE Division Operations Engr. DATE 11/19/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

STIMULATION PROGNOSIS
BROTHERSON 1-3B4
SECTION 3, T2S, R4W
DUCHESNE COUNTY, UTAH

PERTINENT DATA:

ELEV: 6321' KB
KB-GL: 19'
TD: 12,850'

AFE:
AFE AMOUNT: $12,000
SHELL'S SHARE: (64.33%) $7750

CURRENT STATUS:

Flowing from interval 12,412' to 12,842'. On last test 11/14/74, well flowed 185 BO + 12 BW + 170 MCF gas with a FTP of 150 psi. The well produces through an uncemented liner.

PROPOSED WORK:

Cleanout with 15% foamed acid and pump 2100 gals 15% HCl into formation.

PROCEDURE:

1. Cut wax

2. MI and RU Nowsco Coiled Tubing Unit (CTU), Nowsco Nitrogen pumper, and BJ pumper w/chemical pump piped to both lease produced water and acid.

3. While circulating non-heated lease produced water (1/4 to 1/2 BPM) run CT to 12,400±'.

4. With tubing at 12,400' begin pumping the following mixture at a rate of 1 BPM:

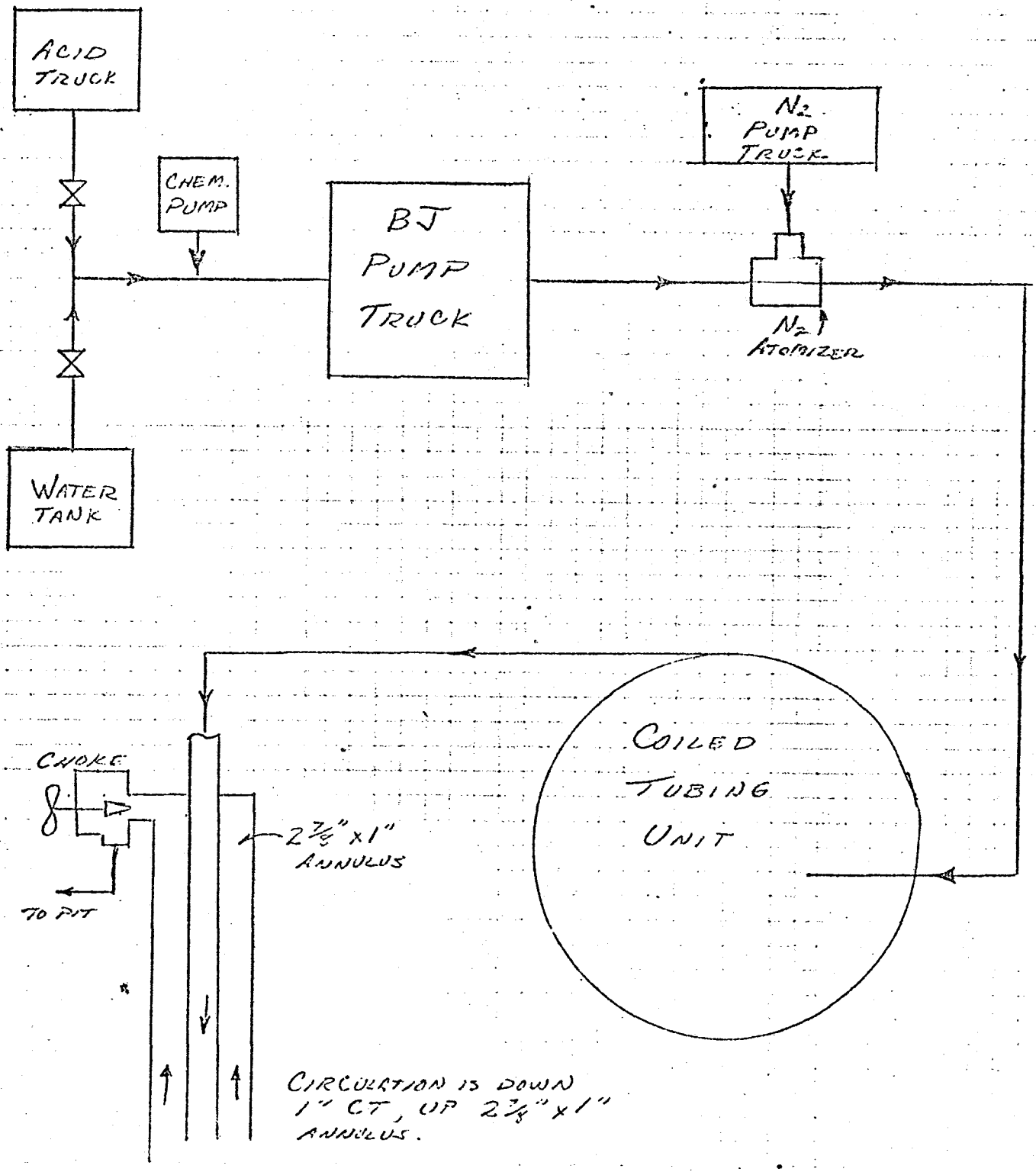
   To each 1000 gal of 15% HCl add 4½ gal of Treatolite WF-17 foaming agent and add Nitrogen gas through Nowsco Atomizer at the rate of 400 scf/bbl. Nitrogen to be heated to ±80°F.

5. Begin lowering CT at 5 FPM while maintaining a rate of 1 BPM. Lower tubing to 12,842+'. When depth is reached circulate an additional 20 bbl of the foamed acid. (Total volume of foamed acid will be about 100 bbl.)

6. With tubing at 12,842' begin pumping 15% HCl without foaming agent and without Nitrogen. Pump 1092 gal (26 bbl) 15% HCl, SI for 1 hour and pump an additional 1008 gal (24 bbl) 15% HCl w/2 7/8" x 1" annulus shut in. Flush w/1100 gal (26 + bbl) lease produced water.

7. Open well slowly on choke to pit and start pumping foamed water (to each barrel of lease produced water add .2 gal WF-17 and 400 scf/bbl Nitrogen) at rate of 1 BPM. Pump 9 bbl foamed water, cut rate to 1/4 BPM and start POOH. Pump foamed water until out of hole.

EQUIPMENT LAYOUT SCHEMATIC



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: 1468' FNL and 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

14. PERMIT NO.: 43-013-30048

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302 GL, 6321 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~~ Foam 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.

cc: USGS - w/Attachment (for information)

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

SIGNED T. S. Maze TITLE Division Operations Engr. DATE 12/31/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Tenneco

*See Instructions on Reverse Side

CLEAN OUT WITH FOAMED ACID — ALTAMONT

SHELL OIL COMPANY

LEASE BROTHERSON — WELL NO. 1-3B4
DIVISION WESTERN — ELEV 6321 KB
COUNTY DUCHESNE — STATE UTAH
LOCATION NW/4 NE/4 SECTION 3-T2S-R4W

12/20/74 - 12/30/74

UTAH
ALTAMONT

Shell-Tenneco-
Brotherson 1-3B4
(CO)

"FR" TD 12,850. Prep to flow to pit to CO. AFE #412987 provides funds to CO with foamed acid. MI&RU Nowsco coil tbg unit, nitrogen pump truck and BJ pump truck. Started in hole w/coil tbg at 7:30 AM 12/19/74. Pumped 1/4 BPM lease produced wtr through coil tbg while running to 12,400 w/coil tbg unit. Started pumping 15% HCl acid containing 4-1/2 gal Tretolite WF-17 per 1000 gal acid and 400 cu.ft. nitrogen per bbl acid. Ran coil tbg to 12,807 while pumping above mixture at 1/4 - 1/2 BPM at 5000 psi surface pressure. Did not go below 12,807. Worked tbg for 30 min at 12,807. Started pumping straight 15% HCl. With 14 bbls HCl in coil tbg, worked tbg for one hour. Pumped additional 3 bbls acid while working tbg. Worked tbg to 12,812 and could not go deeper. Pulled tbg to 12,806 and pumped additional 9 bbls acid at 3/4 BPM at 5000 psi surface press. SI well for 30 min. Pumped 24 bbls 15% acid and flushed w/26 bbls clean formation wtr. Pumped acid and flush at 3/4 - 1 BPM at 5000 psi surface press. Opened well to pit and started pumping clean formation wtr containing .2 gal WF-17 and 400 cu.ft. nitrogen/bbl at 1/2 BPM at 5000 psi surface press. Pumped 9 bbls at 1/2 BPM rate. Cut rate to 1/4 BPM. POOH. Well dead. SI overnight. Job complete 8:30 PM 12/19/74.

DEC 20 1974

Shell-Tenneco-
Brotherson 1-3B4
(CO)

TD 12,850. No report.

DEC 23 1974

Shell-Tenneco-
Brotherson et al 1-3B4
(CO)

TD 12,850. Flowing. (Report for 12/21-23 to be reported later.) On 24-hr tests, well flwd to tank battery as follows:

Rpt Date	BO	BW	MCF gas	Chk	FTP
12/22	82	32	67	30/64"	100
12/23	62	36	18	30/64"	100
12/24	67	30	11	30/64"	100

DEC 24 1974

Shell-Tenneco-
Brotherson et al 1-3B4
(CO)

TD 12,850. Flowing. On 24-hr tests, flwd as follows:

Rpt Date	BO	BW	MCF Gas	Chk	FTP
12/25	119	49	103	22/64"	200
12/26	133	40	120	22/64"	500

DEC 26 1974

Shell-Tenneco-
Brotherson 1-3B4
(CO)

TD 12,850.
12/21: Flwd well to pit 3 hrs to clean up and switched to treater.
12/27: Flowing. On 24-hr test, flwd 114 BO, 26 BW and 68 MCF gas through 22/64" chk w/250 psi FTP.
(Reports discontinued until test established.)

DEC 27 1974

Shell-Tenneco-
Brotherson 1-3B4
(CO)

TD 12,850. CLEANING HOLE WITH FOAMED ACID COMPLETE.
On 24-hr test 12/18/74, prior to work, flwd 197 BO, 13 BW and 180 MCF gas through 22/64" chk w/200 psi FTP from Wasatch perfs 12,412-12,842. On 24-hr test 12/28/74, after work, flwd 103 BO, 18 BW and 68 MCF gas through 22/64" chk w/250 psi FTP from Wasatch perfs 12,412-12,842.
FINAL REPORT.

DEC 30 1974

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: 1468' FNL & 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321 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	[X]	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 attachment

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 5-6-77

BY: Cleon B. Feight

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

SIGNED L. Plauty TITLE Div. Opers. Engr. DATE 5/2/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment

*See Instructions on Reverse Side

PERF & ACID TREAT — ALTAMONT

SHELL-TENNECO	LEASE BROTHERSON	WELL NO.	1-3B4
	DIVISION WESTERN	ELEV	6321 KB
FROM: 2/28 - 4/28/77	COUNTY DUCHESNE	STATE	UTAH

UTAH
ALTAMONT

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

"FR" TD 12,850. PB 12,847. AFE #525607 provides funds to pull tbg & heat strng, CO to top of liner, perf & AT. MI&RU WOW #17. Installed 10" BOP, unstung from pkr & removed 10,000# tree.

FEB 28 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Unlatched from Mdl D pkr. Pulled tbg & latch-in seal assy. MI&RU csg crew & pulled 4000' 5-1/2 csg heat strng. RD&MO csg crew. RIH w/9-5/8 pkr picker. SD for night.

MAR 01 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. RIH w/6 3-1/2 DC's & Xover & latched into pkr w/picker. Milled 9-5/8 Mdl D in 4 hrs. Circ'd out about 200 BO. Pulled 40 stds 2-7/8 tbg & SD for night.

MAR 02 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. POOH & LD DC's, pkr picker & remains of pkr. RIH w/6-1/2" mill & Bkr csg scraper. PU 2300' 2-7/8 to run mill to top of 5-1/2 liner @ 12,360. Pulled 10 stds & SI for night.

MAR 03 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. POOH & LD mill & csg scraper. RIH w/4-5/8 mill; could not get into 5-1/2 liner. RU power swivel & milled & circ'd down 4 jts. Circ'd in reverse, CO & fell thru. Rotated, pushed & milled junk down to 12,830 (17' off btm). PU 1 jt & circ'd clean. SD for night.

MAR 04 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

MAR 07 1977

TD 12,850. PB 12,847. 3/4 AW perfs w/750 gals 15% HCl & let set 1 hr. Est reverse circ & milled 3-1/2 hrs; made 6'. Plug'd mill or tbg; POOH. Mill plug'd. Rec'd 1 set wax cut'g tools, 1/2 of another set & considerable amt WL. 3/5 PU Bkr 7-5/8 full-bore pkr & RIH on 2-7/8 tbg w/gas lift valve & mandrels. Set pkr @ 12,240. Landed tbg on donut w/15,000# tension. Installed tree & SI well.

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. No report.

MAR 08 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Inj'g gas lift gas @ 1160 psi CP. Appears to be lifting off btm; will investigate fluid entry.

MAR 09 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Prod 20 BO & 6 BW; gas lift gas press was down.

MAR 10 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Had 0 prod w/1340 psi CP on gas lift.

MAR 11 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. No prod data.

MAR 14 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Attempting to get gas going into the csg.

MAR 15 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Prod total of 30 bbls fluid; well pmp'd off.

MAR 16 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Prod 11 BO, 70 BW & 467 MCF gas.

MAR 17 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Chk'd PBTD & found obstruction @ 12,300. Attempting to determine what is in hole.

MAR 18 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. No report.

MAR 21 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. SI.

MAR 22 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Located piano wire fill @ 5-1/2 liner top. Rec'd approx 20'. Plan to MI rig & pull tbg.

MAR 23 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Attempted to run bomb in hole; unable to get by 12,370. Ran impress blk & got impress of wire & junk on top of liner. Made several runs w/wire spear & rec'd wire. Unable to clean hole w/WL due to too much wire & junk on liner. RD. MI&RU WOW #12. Bled off tbg & csg. Pmp'd 40 bbls hot prod wtr down tbg & 60 bbls down csg; both on vac. Installed BPV, removed tree, installed & tested BOP's & removed BPV. PU tbg & released full bore pkr.

MAR 24 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. RIH [redacted] prong WL grapple, sinker bars & jars on slickline. Engaged WL fish on top of liner hanger & POOH. Rec'd 50-100' WL ball filled w/set-up oil (no solids, but wax). Reran grapple to liner top. POOH; no rec. Reran grapple to 200' below liner top & did not touch anything. POOH & removed grapple. RIH w/sinker bars & jars to 12,827. POOH. SI well for night.

MAR 2 5 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. 3/25 RIH w/Bkr 7-5/8 full bore pkr & tbg w/gas lift valves & mandrels. Set pkr @ 12,240 w/15,000# tension w/tbg on donut. Removed BOP & installed tree. Released rig 3/25 & turned over to prod. 3/26 Opened well; dead. Started gas inj. From 5 p.m. to 7:45 a.m. prod 324 BW & 25 BO. 3/27 Well prod'g 23 BW/H & 1.5 BO/H. Well leading every 20 mins & stay'g dead in the 20-min interval, but is inj gas @ all times & get'g full gas returns. Total gas inj since startup 3/26/77 is 2731 MCF gas.

MAR 2 8 1977

Shell- Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. SI well 8 a.m. 3/28. RIH w/press bomb to record BHP.
(Report discontinued until further activity)

MAR 2 9 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. (RRD 3/29/77) 3/31 Pulled bomb & left well SI. 4/1 MI&RU WOW #19. Moved BOPE & rig equip. Bled down well. 4/2 Prep to pull prod tbg & mandrels. Fin'd bleeding off well. Pmp'd 10 bbls prod wtr down tbg to kill well. Ran bomb for BHPS.

APR 04 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Prep to run logs. Bled well down; SIP was 3000#. Removed tree & installed BOPE. Released pkr @ 12,300 & POOH. SI for night.

APR 05 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. RU OWP & ran GR, CL & CBL logs. Hit FL @ 7000'. Ran logs from 12,360-9600'. RD OWP. RIH w/ret BP & Mdl C full bore pkr (both 7-7/8) & 100 stds 2-7/8 N-80 prod tbg. SD for night.

APR 06 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Set ret BP @ 12,350 & Mdl C full bore pkr @ 11,000. Removed BOPE & installed 10,000# tree. Ran SV & press tested tbg to 6500 psi & annulus to 3000 psi. Fished SV & tested BP to 4000 psi. OWP perf'd 19 holes (12,345-12,199). No press indications. RU Hal & cap'd BP w/1 sx 20-40 sd. Bullheaded 8 bbls gelled dbl-inh'd wt'd 15% HCl down tbg. Displ'd w/108 bbls prod wtr. Max press 4800 psi, avg 4800. Max rate 2 B/M. ISIP 4500 psi, 15 mins 4500. SI overnight.

APR 07 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

APR 1 1 1977

TD 12,850. PB 12,847. 4/8: perfs 12199, 12206, 12213, 12217, 12226, 12248, 12251, 12257, 12270, 12274, 12277, 12284, 12293, 12297, 12311, 12316, 12333, 12339, 12345. Tested lines to 10,000 psi, pumped 200 bbls 15% HCl down tbg. Displaced w/120 bbl prod wtr containing 3 gal G-10 per 1000 gal. Pumped 8 bbls HCl, dropped 1 (7/8) ball sealer throughout job. All acid cont. 3 gal C-15, 3 gal J-22, 3 gal C-10 per 1000 gal. Fluids 80 degrees to 100 degree F. Max 9000 psi, 8.3 BPM, avg 8000 psi, 7.0 BPM, min 6100 psi, 2.0 BPM. ISIP 500 psi, 5 min 4800, 10 min 4750 and 15 min 4700. Balled out after 84 bbl flush, SI 5 min, psi dropped to 4800 psi. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
4/8	24	1314	345	1785	1400
4/9	24	1054	235	1745	1400

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. (Corr to rept of 4/11: well is flw'g) On 24-hr test, prod 451 BO, 41 BW, 1250 MCF gas w/400 psi.

APR 1 2 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 1223 BO, 320 BW, 2300 MCF gas w/250 psi.

APR 1 3 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 990 BO, 321 BW, 1280 MCF gas w/250 psi.

APR 1 4 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 1077 BO, 292 BW, 1340 MCF gas w/400 psi.

APR 1 5 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 942 BO, 302 BW, 1131 MCF gas w/200 psi.

APR 1 8 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
4/15	24	791	459	1229	200
4/16	24	901	409	1235	250
4/17	24	698	378	990	200

APR 1 9 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 641 BO, 445 BW, 950 MCF gas w/150 psi.

APR 2 0 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 667 BO, 404 BW, 910 MCF gas w/200 psi.

APR 2 1 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 493 BO, 439 BW, 785 MCF gas w/200 psi.

APR 2 2 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-[redacted] test, prod 649 BO, 358 BW, 1030 MCF gas w/200 psi.

APR 2 5 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
4/22	24	646	425	1021	250
4/23	24	722	322	937	200
4/24	24	427	294	730	200

APR 2 6 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. On 24-hr test, prod 745 BO, 312 BW, 735 MCF gas w/200 psi.

APR 2 7 1977

Shell-Tenneco-
Brotherson 1-3B4
(Perf & AT)

TD 12,850. PB 12,847. Prior to work, well was dead. On 24-hr test 4/26/77 prod 612 BO, 291 BW, 800 MCF gas w/200 psi.
FINAL REPORT

APR 2 8 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. This we was put on prod 10/20 in a flw'g status. It has flwd as much as 1150 BO in 24 hrs, but has declined to the present status of dead. Slickline has been run into hole to 10,000' w/no tbg plug. This well is now SI & will not bld press; WO future remedial work to install gas lift.

NOV 1 8 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 [XX] 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: 1468' FNL & 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321 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) Install artif lift			[X]	(Other) Install artif lift			[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

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: June 30, 1977

BY: P L Driscoll

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

SIGNED L. Plaudis TITLE Div. Opers. Engr. DATE 6/24/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment

*See Instructions on Reverse Side

INSTALL ARTIFICIAL LIFT — ALTAMONT

SHELL-TENNECO — LEASE BROTHERSON ET AL — WELL NO. 1-3B4

DIVISION WESTERN — ELEV 6321 KB

FROM: 5/31 - 6/14/77 — COUNTY DUCHESNE — STATE UTAH

UTAH
ALTAMONT

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

"FR" TD 12,847. PB 12,830. AFE provides funds to install artificial lift. 5/26 MI&RU CWS #55. Pmp'd 50 BW down tbg. Installed BOP's. Released pkr & pulled 40 jts 2-7/8 tbg. 5/27 Pmp'd 50 BW down tbg & pulled remaining 2-7/8 tbg. Pmp'd 150 BW & pulled pkr. Ran redressed 7-5/8 full bore pkr, unloader, SN, 40 jts tbg, mandrel w/valve @ 10,903, 11 jts tbg, mandrel w/valve @ 10,555 & 5 jts tbg. 5/28 Ran 16 jts tbg, mandrel @ 9603 w/valve, 21 jts tbg, mandrel w/valve @ 8954, 24 jts tbg, mandrel w/valve @ 8215, 38 jts tbg, mandrel w/valve @ 7053, 58 jts tbg, mandrel w/valve @ 5310, 80 jts tbg, mandrel w/valve @ 2886 & 93 jts tbg. Set pkr @ 12,130. Pulled tbg to 10,000# tension & landed on donut. Set BPV, removed BOP's & installed tree. Connected lines & turned over to prod. Released rig 5/28.

MAY 31 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 21-hr test 5/30, gas lifted 242 BO, 810 BW, 825 MCF gas w/1380 psi inj press.

JUN 01 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 816 BO, 622 BW, 1620 MCF gas w/1380 psi inj press.

JUN 02 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 756 BO, 515 BW, 1550 MCF gas w/1380 psi inj press.

JUN 03 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 454 BO, 462 BW, 1000 MCF gas w/1370 psi inj press.

JUN 06 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
6/3	24	812	449	940	1370
6/4	19	540	404	825	1400
6/5	24	597	337	680	1400

JUN 07 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 592 BO, 578 BW, 1225 MCF gas w/1400 psi inj press.

JUN 08 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 543 BO, 528 BW, 1075 MCF gas w/1360 psi inj press.

JUN 09 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 450 BO, 504 BW, 1125 MCF gas w/1400 psi inj press.

JUN 10 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 468 BO, 487 BW, 1310 MCF gas w/1400 psi inj press.

JUN 13 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Install artif lift)

TD 12,847. PB 12,830. On 24-hr test before work, well avg'd 0 BO, 0 BW & 0 MCF gas. On 24-hr test after work, well avg'd 454 BO, 462 BW & 466 MCF gas.
FINAL REPORT

JUN 14 1977

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: 1468' FNL & 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321 KB

12. COUNTY OR PARISH: Duchesne

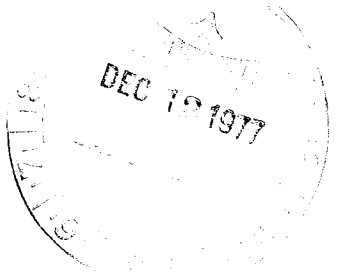
13. STATE: Utah

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	[X]	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 attachment



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

SIGNED [signature] TITLE Div. Opers. Engr. DATE 12/7/77

(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-TENNECO

FROM: 10/11 - 11/18/77

LEASE BROTHERSON
DIVISION WESTERN
COUNTY DUCHESNE

ALTAMONT
WELL NO. 1-3B4
ELEV 6321 KB
STATE UTAH

UTAH
ALTAMONT

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

"FR" TD 12,847. PB 12,830. AFE #570567 provides funds to recomp. MI&RU WOW #17 & bled well down. Removed tree & tbg hd spool. Installed 10" BOP. Circ'd hole full of prod wtr. Released 7-5/8" Bkr full bore pkr & SD for night.
OCT 11 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. Prep to perf. Ran 7-5/8 pkr to 12,340. Spt'd 1200 gals prod wtr containing 4 gals J22. POOH & LD gas mndrls. RU OWP & ran 3-1/8 OD dump bailer. Dumped 1 sx 20-40 mesh sd on BP @ 12,340'. Installed perf'g flange on 10" BOP.
OCT 12 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. RU OWP & perf'd as per prog w/257 bbls 15% HCl interval 12,163-11,749 (23 holes) w/4" OD, 19 grm chrgs (2 runs) gun. No sfc press after perf'g. RD OWP. RIH w/Bkr 7-5/8" OD full bore pkr & set @ 11,697 w/20,000# tension. Drop'd SV & tested tbg to 7500#, ok. Retrieved SV & installed 10,000# tree. Bullheaded 1200 gals 15% HCl wt'd, inh'd, gelled acid. Max press 2500# & 0 w/acid displ'd. Foll'd acid w/2900 gals prod wtr.
OCT 13 1977

Shell-Tenneco-
Brotherson et at 1-3B4
(Recomp)

TD 12,847. PB 12,830. RU BJ & AT perfs 11,749-12,340 (23 new & 19 old) w/257 bbls 15% HCl as per prog. Used 54 ball sealers. Flushed trtmt w/4200 gals containing 3 gals G10/1000 gals. Total load 357 bbls. Max TP 8400 psi, min 5400, avg 7300. Max rate 11 B/M, min 8, avg 10. ISI 0 psi, 5/10/15 & 2 hrs 0. Removed tree & unseated pkr. Installed 10" BOP. POOH w/7-5/8 pkr. Ran Bkr ret'g head & 9200' tbg.
OCT 14 1977

Shell-Tenneco-
Brotherson et at 1-3B4
(Recomp)

TD 12,847. PB 12,830. Fin'd kill'g well. Ran Bkr ret'g hd to 12,350. Washed over Bkr ret BP, worked loose & pulled to 11,700' & set. Press tested BP; would not hold press. Pulled 20 stds tbg & SI well. Prep to circ & kill well.
OCT 17 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. Killed well & POOH w/Bkr ret BP. Set new 7-5/8 ret BP @ 11,690. Circ'd out gas & tested BP & 9-5/8 csg to 2500#, ok. Spt'd 2 sx 20-40 mesh sd on top of BP. Spt'd 1300 gals clean prod wtr containing 4 gals J22 from BP to 11,000'. Pulled & LD 23 jts 2-7/8 tbg.
OCT 18 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. OWP perf'd w/4" OD csg gun w/19 grm chrgs as per prog 11,676-11,035 (53 holes) in 4 runs. 9-5/8" press'd to 500# on last run. Bled press & ran 7-5/8 ret pkr & ret'g hd to 6100'. SD for night.

OCT 19 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. Set pkr @ 10,977 w/25,000# set down. Press'd tbg to 7500#, ok. Pulled SV, removed BOP & installed 10,000# tree. Spt'd 1300 gals 15% HCl containing 50# G26, 8 gals C15, 25 gals Z5 & 3 gals J22. Foll'd acid w/3000 gals prod wtr containing 9 gals J22. Max press bullheading acid to btm 4000#. RU BJ & press tested sfc lines & tree to 10,000#, ok. AT perfs 11,035-11,676 (53 holes) w/286 bbls 15% HCl as per prog. Max TP 8400 psi, min 6500, avg 7900. Max rate 12.2 B/M, min 6, avg 11. ISIP 4300 psi, 5 mins 4000, 10 mins 3900, 15 mins 3800. Flushed trtmt w/4300 gals prod wtr containing 6 gals G10 per 1000 gals wtr. Total load in trtmt 390 bbls. Total balls used 75. SI well for night.

OCT 20 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. Flwd well to pit 2 hrs thru 24/64 chk w/600 psi TP. Well cleaned up making drk brn oil. Turned well to bty thru 46/64 chk w/350# FTP. Prod 1145 BO, 44 BW & 412,000 MCF gas in 21 hrs.

OCT 21 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 1025 BO, 44 BW & 330 MCF gas on 45/64 chk w/350 psi.

OCT 24 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
10/21	24	1025	44	330	350
10/22	24	973	1	334	350
10/23	24	808	0	338	350

OCT 25 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 620 BO, 0 BW, 278 MCF gas w/350 psi.

OCT 26 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 672 BO, 0 BW, 264 MCF gas w/350 psi.

OCT 27 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 778 BO, 3 BW, 403 MCF gas w/600 psi.

OCT 28 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 192 BO, 4 BW, 278 MCF gas w/400 psi.

OCT 31 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 426 BO, 2 BW, 273 MCF gas w/400 psi.

NOV 01 1977

Shell-Tenneco-Brotherson et al 1-3B4 (Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 371 BO, 0 BW, 273 MCF gas w/400 psi.

NOV 02 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
10/30	24	393	5	138	400
10/31	24	615	0	138	400
11/1	24	321	1	534	350

NOV 03 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24 hr test well prod 262 BO, 0 BW, 137 MCF gas w/325 psi. 11/4/77

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 313 BO, 0 BW, 137 MCF gas w/300 psi.

NOV 07 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/4	24	255	1	143	50
11/5	24	258	1	135	250
11/6	24	218	0	215	250

NOV 08 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 254 BO, 0 BW, 135 MCF gas w/350 psi.

NOV 09 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 136 BO, 1 BW, 137 MCF gas w/350 psi.

NOV 10 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 241 BO, 0 BW, 139 MCF gas w/250 psi.

NOV 11 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. 11/10 MI&RU Geotex for fluid entry survey. Completed fluid density & temp survey. Tools stuck in well @ 11,000 while attempting to run oil soluble tracer log. Rec'd tools & obtained needed info w/o oil tracer. Survey indicated oil entering well @ 11,108' perfs. RD&MO Geotex.

NOV 14 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 215 BO, 0 BW, 141 MCF gas w/250 psi.

NOV 15 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On 24-hr test, prod 167 BO, 0 BW, 139 MCF gas w/350 psi.

NOV 16 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

TD 12,847. PB 12,830. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/13	24	159	1	141	150
11/14	24	0	0	69	50
11/15	24	1	0	43	50

NOV 17 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Recomp)

D 12,847. PB 12,830. This we was put on prod 10/20 in a flw'g status. It has flwd as much as 1150 BO in 24 hrs, but has declined to the present status of dead. Slickline has been run into hole to 10,000' w/no tbg plug. This well is now SI & will not bld press; WO future remedial work to install gas lift.

NOV 1 8 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: 1468' FNL & 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321 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	[X]	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 attachment

RECEIVED DEC 12 1977

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

SIGNED L. Plaudy TITLE Div. Opers. Engr. DATE 12/7/77

(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

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: 1468' FNL & 1503' FEL Section 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: W. H. Brotherson, Jr.

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Section 3-T2S-R4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321 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) Gas Lift			[X]	(Other) Gas Lift			[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

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: Feb. 16, 1978
BY: P. L. Mcnell

RECEIVED FEB 14 1978 DIVISION OF OIL, GAS, & MINING

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

SIGNED: R Plunkett TITLE: Div. Opers. Engr. DATE: FEB 08 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment

*See Instructions on Reverse Side

CONVERT TO GAS LIFT

SHELL-TENNECO	LEASE BROTHERSON ET AL	WELL NO.	ALTAMONT 1-3B4
	DIVISION WESTERN	ELEV	6321 KB
FROM: 12/5/77 - 12/30/77	COUNTY DUCHESNE	STATE	UTAH

UTAH
ALTAMONT

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

"FR" TD 12,847. PB 12,830. AFE #570567. 12/1 MI&RU Shebester #180. Pmp'd 20 BW down tbg & installed BPV. Removed 10,000 psi WH & installed 10" BOP. Released Bkr ret pkr & rev circ'd 100 BW. 12/2 POOH w/pkr. MI&RU slick line trk. RIH w/wire grapple to 11,680 w/o hit'g any obstruction. POOH & RD slick line. RIH w/Bkr ret'g head. Tag'd sd @ 11,682. Rev circ'd 500 BW; rec'd frac balls & some sd. Released BP; well went on vac. Pulled tbg above 7-5/8 liner top & SD for night. 12/3 POOH w/BP. RIH w/7-5/8 Mdl C full bore pkr & gas mndrls w/valves.

DEC 05 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. No report.

DEC 06 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. TP 500 psi. Circ'd approx 100 BO to mud tank. Circ'd approx 500 BW; well died. Set Bkr Mdl C full bore pkr @ 10,999 w/15,000# tension, +45 above pkr & gas mndrls set @ foll'g depths: 10,950, 10,455, 9939, 9441, 8943, 8449, 7891, 6846, 5255 & 2718. Installed 10,000# WH & turned well over to prod. 12/6 Released rig.

DEC 07 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 16-hr test, gas lifted 488 BO, 32 BW, 1425 MCF gas w/1100 psi inj press.

DEC 08 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 22-hr test, gas lifted 874 BO, 1 BW, 1547 MCF gas w/1100 psi inj press.

DEC 09 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 1078 BO, 5 BW, 2145 MCF gas w/1100 psi inj press.

DEC 12 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 732 BO, 0 BW, 1822 MCF gas w/1100 psi inj press.

DEC 13 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 943 BO, 11 BW, 1401 MCF gas w/1100 psi inj press.

DEC 14 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
12/11	24	926	99	2200	1100
12/12	24	781	12	1651	1300
12/13	24	1026	9	1626	1300

DEC 15 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 941 BO, 0 BW, 1501 MCF gas w/1300 psi inj press. DEC 16 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 19 BO, 0 BW, 57 MCF gas w/1100 psi inj press. DEC 19 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
12/16	24	805	0	1445	1300
12/17	24	782	10	1544	1300
12/18	24	634	1	1653	1300

DEC 20 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 582 BO, 0 BW, 2540 MCF gas w/1300 psi inj press. DEC 21 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24-hr test, gas lifted 947 BO, 14 BW, 625 MCF gas w/1300 psi inj press. DEC 22 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 20-hr test, gas lifted 571 BO, 48 BW, 1653 MCF gas w/1300 psi inj press. DEC 27 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift) DEC 2 2 1977

TD 12,847. PB 12,830. On various tests well gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
12/22	24	1022	50	1203	1300
12/23	24	800	39	670	1300
12/24	24	832	48	1305	1300
12/25	24	887	73	1651	1300
12/26	24	766	62	2100	1300

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. On 24 hr test well gas lifted 759 BO, 24 BW, 1501 MCF gas w/1300 psi inj press. DEC 29 1977

Shell-Tenneco-
Brotherson et al 1-3B4
(Gas Lift)

TD 12,847. PB 12,830. CONVERSION TO GAS LIFT COMPLETE. Well dead prior to job. On test 12/29/77 gas lifted 742 BO, 4 BW, 874 MCFD gas inj. DEC 30 1977
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 #6459 WCK

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL Sec. 3

5. LEASE DESIGNATION AND SERIAL NO.: PATENTED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: BROTHERSON

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 T2S R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321' 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.) *

SEE ATTACHED

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6/30/82
BY:

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

SIGNED W. F. N. KEELDORF TITLE DIVISION PROD. ENGINEER DATE 6-16-82

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

13-15

REMEDIAL PROGNOSIS
BROTHERSON 1-3B4
SECTION 3, T2S, R4W
DUCHESNE COUNTY, UTAH
ALTAMONT FIELD

Pertinent Data: Shell's share 64.33%

Elevation (KB): 6321'
Elevation (GL): 6302'
TD: 12,850'
PBTD: 12,847'
Casing: 13-3/8", 54.5 lbs, K-55 to 1108'.
9-5/8", 40 and 47 bls, S-95 to 10,609'.
Liner: 7-5/8", 33.4 lbs, from 10,086' to 12,390'.
5-1/2", 20 lbs, N-80 from 12,359' to 12,847'.
Tubing: 2-7/8", EUE 8RD to 10,991'.
Packer: Baker Model "C" full bore at 10,999'.

Perforations: 11,035'/12,345' (95 holes); Shop perfs
12,412'/12,842' (520 holes)

Objective: Clean out and stimulate perforations

Procedure:

1. MIRU. Load hole with clean produced water containing 5 gal/100 bbl Tretolite Xcide 102 Biocide. Remove tree. Install and test BOPE as per Attachment I.

2. Pull tubing and 7-5/8" fullbore packer.

3. RIH with 4-1/4" bit or mill and 7-5/8" scraper and clean out 7-5/8" liner. Pull out and run 4-1/8" mill or bit and 5-1/2" scraper and clean out 5-1/2" liner to PBTD (12846).

4. RIH with tubing and 7-5/8" fullbore packer. Set at 11,000'±.

5. Acid treat perf's (11,035'-12,842', 428 holes) with 16,000 gallons 15% HCl as follows:

   A. Pump 1000 gallons of acid to establish injection rate.
   B. Pump 3000 gallons acid, dropping one ball sealer (7/8" RCH with 1.2 S.G.) every 27 gallons.
   C. Pump 1000 gallons acid containing 1000# benzoic acid flakes.
   D. Repeat Step (B) three more times and Step (C) two more times for a total of four stages acid and three of diverting material (total 16,000 gallons acid and 120 ball sealers).

E. Flush with 110 bbls of clean produced water containing five gallons Tretolite Xcide 102 Biocide.

NOTES:

1. All acid and flush to contain five lbs J-120/1000 gallons HCl or equivalent for ±60% friction reduction and 1.0# 20-40 mesh RA sand per 1000 gallons (no RA sand inflush).
2. All acid to contain sufficient corrosion inhibitor for four 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.

6. Run RA log from PBTD to 11,050'.

7. POOH with tubing and packer. RIH with packer, mandrels, and values with Baker model "C" fullbore packer and set packer at 11,000'±. Return well to production.

Recommended: BJH 4-8-82 Approved: _____

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 ☒ 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: 1468' FNL & 1503' FEL Sec. 3

5. LEASE DESIGNATION AND SERIAL NO.: PATENTED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: BROTHERSON

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 T2S R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6321' 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.) *

SEE ATTACHED

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

SIGNED W. F. N. KELLDORF TITLE Division Prod. Engineer DATE 7-26-82

(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 383
ISSUED 07/12/82

WELL: BROTHERSON 1-3B4
LABEL: FIRST REPORT
AFE: AFE 570697
FOREMAN: KENT RUST
RIG: WOW 22
OBJECTIVE: CO. AND STIMULATE.
AUTH. AMNT: 61000
DAILY COST: 3600
CUM COST: 3600
DATE: 5-26 AND 5-27-82
ACTIVITY: 5-26-82 ACTIVITY : AFE 570697 PROVIDES FUNDS OF
02 61000 TO CLEAN OUT AND STIMULATE THE WASATCH. MIRU
03 BLEED DOWN BACKSIDE. PUMPED 50 BBLS. WTR. DOWN TBG.
04 AND 50 BBLS. WTR. DOWN CSG. REMOVE WELLHEAD. DID
05 NOT HAVE CORRECT SPOOL TO FLANGE UP FROM CSG. HEAD
06 TO BOP. WAIT FOR CHANGE OVER SPOOL.S.D.O.N.
07 5-27-82 STATUS: POOH. RIH W/6 1/8 INCH MILL AND
08 7 5/8 INCH SCRAPPER.

LABEL: -----
DAILY COST: 3000
CUM COST: 6600
DATE: 5-27 AND 5-28-82
ACTIVITY: 5-27-82 ACTIVITY: PUMP 50 BBLS WTR. DOWN TBG.
02 PUT ON BOP RELEASE PKR. AND POOH. W/10 CAMCO
03 MANDRELS PKR. AND TBG. LAID DOWN MANDRELS WHILE
04 COMING OUT OF HOLE. RIH W/ 6 5/8 INC H MILL AND 7
05 5/8 INCH CSG. SCRAPPER. PICKED UP 45 JTS. 2 7/8
06 INCH TBG. OFF PIPE RACKS. TAGGED UP AT 12360 FT.
07 LINER TOP. BUMPED A COUPLE PLACES OF SCALE WHILE GOING
08 THRU 7 5/8 INCH LINER. START OUT OF HOLE W/6 5/8
09 INCH MILL AND 7 5/8 INCH CSG. SCRAPPER 30 STDS.
10 S.D.O.N.
11 5-28-82 CO 5 1/2 INCH LINER.

LABEL: -----
DAILY COST: 4000
CUM COST: 10600
DATE: 5-26 AND 5-29 AND 6-1-82
ACTIVITY: 5-26-82 DAILY COST 3400 CUM. COST 10000.
02 5-26-82 ACTIVITY: FINISH POOH RIH W/4 5/8 INCH

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 383
ISSUED 07/12/82

03 MILL. C.O. 5 1/2 LINER TO 12820 FT. POOH AND LAY
04 90 JTS. TBG. POOH W/100 STANDS TBG. S.D.O.N.
05 5-29-82 COSTS GIVEN IN HEADING. STATUS: GET READY
06 TO ACIDIZE TUESDAY. ACTIVITY: FINISH POOH RIH
07 W/MIN STATES 7 5/8 INCH 33.7 LBS 32 A PKR AND UNLOADER
08 SET AT 10989 FT. W/20000 LBS TENSION. TEST
09 BACKSIDE TO 2500 PSI AND GET WELL READY TO ACIDIZE
10 ON TUESDAY. S.D. FOR W.E.
11 6-1-82 STATUS: ACIDIZE WELL.

LABEL: -----
DAILY COST: 38902
CUM COST: 52902
DATE: 6-1 AND 6-2-82
ACTIVITY: 6-1-82 ACTIVITY: R.U. NOWSCO. ACIDIZE AS PER
02 PROG: MAX PSI 8800 LBS MAX RATE 16 BBL/MIN
03 AVG PSI 7000 LBS AVG. RATE 14.5 BBL/MIN
04 MIN RATE 5000 LBS. MIN RATE 10 BBL/MIN 450 BALLS
05 3500 LBS BAF CSG 2500 LBS ISIP 0 5 10 15 20 MIN
06 ALL ZERO. ACID 384 BBL. FLUSH 110 BBL TOTAL
07 FLUID 494 BBL. R.D. NOWSCO. R.U. OWP RUN R A LOG
08 FROM 10800 FT. THRU 12820 FT. LOG SHOWS GOOD
09 TREATMENT . R.D. OWP. REMOVE 10000 LBS TREE AND PUT
10 ON BOP. RELEASE PKR. AND START OUT OF HOLE. 20 STD.
11 S.D.U.N.
12 6-2-82 STATUS: RIH W/PROD. EQUIP.

LABEL: -----
DAILY COST: 5900
CUM COST: 58802
DATE: 6-2-82
ACTIVITY: 6-2-82 ACTIVITY: FINISH COMING OUT OF HOLE W/
02 PKR. AND TBG. RIH W/ 7 5/8 INCH GUIBERSON PKR W/
03 UNLOADER AND 8 GAS LIFT MANDRELS AND TBG. SET
04 PKR. AT 11002 FT. SET MANDRELS AS
05 PER PROG. REMOVE BOP AND PUT ON WELLHEAD. R.D.
06 S.D.U.N. THIS WILL BE THE FINAL RIG REPORT BUT
07 THERE WILL BE TEST DATA INPUT.

LABEL: FINAL REPORT
CUM COST: 58802
DATE: 6-5 THRU 6-11-82

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 383
ISSUED 07/12/82

ACTIVITY:
02 TEST DATA IS FOR 24 HRS. UNLESS STATED OTHERWISE.
03 6-5-82 271 OIL 99 WTR 730 MCF GAS 509 INJ. 200 TBG.
04 PSI. 16 INJ. CHOKE. 64/64 TBG CHOKE. 1100 CSG PSI.
05 6-6-82 208 OIL 195 WTR 600 MCF 539 INJ. 50 TBG PSI
06 INJ. 6/64 TBG. 1100 CSG PSI. 6-7-82 188 OIL 222 WTR.
07 600 MCF 529 INJ. 50 TBG PSI 6INJ/64 TBG CHOKES 1100 CSG
08 PSI. 6-8-82 125 OIL 167 WTR 9 8 5 MCF 817 INJ. 200
09 TBG. PSI 6 INJ/40 TBG CHOKE. 1100 CSG PSI 6-9-82
10 122 OIL 158 WTR 540 MCF 407 INJ 50 TBG PSI 6/40
11 CHOKES 1100 CSG PSI. 6-10-82 162 OIL 210 WTR 610
12 MCF 540 INJ. 50 TBG PSI 6INJ/46 TBG
13 CHOKE. 6-11-82 125 OIL 203 WTR 515 MCF 394 INJ
14 50 TBG PSI 6 INJ/40 TBG CHJOKE.

Form OGC-1b

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

3 11

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 ATTN: B. T. Ellison 6486 WCK.

3. ADDRESS OF OPERATOR: P. O. Box 831 Houston, Tx. 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL Sec. 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Brotherson

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 3 T2S R4W NW/4 NE/4

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 6321'

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) Identify possible casing damage	[ ]			(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.) *

Current Status: Currently producing 1 BOPD and 53 BWPD from the Wasatch (11,035'-12,842').

Proposed Work: Run casing caliper log and pressure test the casing to identify possible damage. The casing will then be repaired if required.

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

SIGNED B. T. Ellison TITLE Div. Prod. Engr. DATE 4/28/83

(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 IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
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SUNDRY NOTICES AND REPORTS ON WELLS

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7. UNIT AGREEMENT NAME:

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10. FIELD AND POOL, OR WILDCAT: Altamont

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13. STATE: Utah

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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) Identified csg. damage			
(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.) *

COMPLETED OPERATIONS
(5/17-6/20/83)

Identified casing leak at 3545' and 3850', Cement squeezed casing leaks with 800 sacks class G cement. Returned well to production.

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

SIGNED J. T. Ellison TITLE Div. Prod. Engr. DATE 6/28/83

(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 442
ISSUED 06/27/83

WELL:	BROTHERSON 1-3B4
LABEL:	FIRST REPORT
AFE:	588237
FOREMAN:	B J THOMPSON
RIG:	WOW 17
OBJECTIVE:	IDENTIFY CASING DAMAGE
AUTH. AMNT:	20000
DAILY COST:	1765
CUM COST:	1765
DATE:	5-17-83
ACTIVITY:	WO NO. 588237 PROVIDES FUNDS OF 20000 TO IDENTIFY
02	CASING DAMAGE ON BROTHERSON 1-3B4.
03	6-7 AM TRAVEL TO LOCATION. FINISH RIGGING DOWN
04	EQUIP. LOAD OUT AND MOVE TO 1-3B4. REMOVE FLOW-
05	LINE. VALVE ON CSG. WOULD NOT CLOSE ALL THE WAY.
06	GAS PRESS. ESCAPING THROUGH FLANGE. FINALLY GOT
07	OFF WELLHEAD W/ GAS LIFT. RIG UP CELLAR BASE AND
08	RIG. SET IN OTHER EQUIP. HAD WELDER REPAIR FLOOR.
09	BROKEN LAST JOB. START BLEEDING OFF PRESS ON
10	WELL. SDON. 7-8 PM TRAVEL HOME.
LABEL:	-----
DAILY COST:	2630
CUM COST:	4395
DATE:	5-18-83
ACTIVITY:	6-7 AM TRAVEL TO LOCATION. CONT. BLEEDING WELL
02	OFF. PUMP DOWN TBG. AND CSG. TRY TO RELEASE
03	7 5/8 IN. GUIBERSON UNI V1 PKR. COULDNT. TRY
04	PUMPING DOWN WELL SOME MORE. RIG UP SWIVEL ROTATE
05	AND TRY TO RELEASE PKR. FINALLY RELEASED. BUT
06	DRAGGING 20000 LB. EXCESS WT. POOH TALLING. CLOSE
07	WELL IN FOR NIGHT. 7-8 PM TRAVEL HOME. COST 2480.
08	TOTAL 4245.40
LABEL:	-----
DAILY COST:	4101
CUM COST:	8496
DATE:	5-19-83
ACTIVITY:	DAILY AVG. FOR APRIL 0 OIL 0 WTR.
02	6-7 AM TRAVEL TO LOCATION. CHECK WELL FOR PRESS.
03	CONT. PULLING OUT OF HOLE TALLYING. PKR WOULD
04	NOT COME THRU 7 1/16 IN. SPOOL. STRIP OFF 7 1/16
05	BY 10 IN. SPOOL AND 6 IN. BOP. LAY DOWN 7 5/8 IN
06	GUIBERSON PKR. CHG. OUT STACKS. INSTALL AND TEST
07	10 IN. 5000 LB. BOP AND SPACER SPOOLS. RIG UP
08	DIA-LOG. LOG 9 5/8 IN CSG FROM 7 5/8 IN LINER
09	TOP TO SURFACE. COULDNT GET BELOW 1020 FT. W/
10	SURVEY TOOL OR CSG CALIPER TOOL. RIG DOWN DIA-

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

11 LOG. MADE UP 8 IN. O.D. IMP BLOCK. RIH TO 1100 FT
12 POOH NO IMP. OF ANYTHING. CLOSE WELL IN FOR NIGHT
13 8 30 TO 9 30 PM TRAVEL HOME. COST 2250.90
14 RIG TOTAL 6496.30

LABEL: _____
DAILY COST: 5615
CUM COST: 14111
DATE: 5-20-83
ACTIVITY: 6-7 AM TRAVEL TO LOCATION. HIGH COUNTRY HOT OILER
02 PUMPING HOT WTR. DOWN WELL. RIG UP DIA LOG RUN
03 9 5/8 IN. CSG SURVEY. RIG DOWN DIA- LOG. WAIT ON
04 MT. STATES 7 5/8 IN R.B.P. AND 9 5/8 IN. PKR.
05 MADE UP TOOLS AND RIH TRY TO PRESS TEST AT 1000 FT
06 AND 2000 FT. COULDNT GET PKR TO HOLD. CONT. RUNNING
07 IN HOLE. CLOSE WELL IN FOR NIGHT. 6-7 PM TRAVEL
08 HOME. COST 1938.40 RIG TOTAL 8434.70
09 5-21-83 DAILY COST 2238 CUM COST 16349
10 CHECK WELL FOR PRESS. CONT. RIH W/9 5/8 IN PKR AND
11 7 5/8 IN. RET. B.P. MT. STATES. SET RET. B.P. IN
12 7 5/8 IN. CSG SET PKR. IN 9 5/8 IN. CSG TRY TO
13 TEST LINER TOP. PUMPING INTO FORMATION AND CIRC.
14 WELL AT 400 PSI. CLOSE TBG IN AND TRY TESTING
15 HOLE. COULDNT GET ANY PRESS. RIG UP HOT OIL TRUCK
16 AND PUMP HOT WTR DOWN TBG. TO CLEAN OUT. RELEASE
17 PKR. RELEASE B.P. AND SET 240 FT. INTO 7 5/8 IN.
18 LINER. POOH W/ TBG. AND 9 5/8 IN PKR. CLOSE WELL
19 IN FOR NIGHT. 3000 FT TBG. STILL IN HOLE.
20 COST 2088.40 RIG TOTAL 10523.10

LABEL: _____
DAILY COST: 2588
CUM COST: 18937
DATE: 5-23-83
ACTIVITY: 6-7 AM TRAVEL TO LOCATION. FINISH PULLING OUT OF
02 HOLE. LAY DOWN 9 5/8 IN. HD PKR. AND RET. HEAD
03 FOR B.P. MADE UP 9 5/8 IN. GUIBERSON UNI V1 PKR
04 AND NEW PLUS .45 S.N. RIH TO 2450 FT. COULDNT GET
05 PKR. SET. TEST TBG. TO 5000 FT. WAIT ON GUIBERSON
06 CONT. TRYING TO SET PKR. GOT PKR. SET. TEST 9 5/8
07 IN. CSG TO 2000 LB. OK. COULDNT RELEASE PKR.
08 WAIT ON DIA-LOG. RIG UP DIA-LOG. RIH TO CUT OFF
09 TBG. RIG DOWN DIA-LOG. COULDNT GET BELOW 380 FT.
10 SET DOWN ON PKR. AND OPEN UNLOADER. PUMP DOWN CSG
11 CLOSE WELL IN FOR NIGHT. COST 2438.40 RIG TOTAL
12 12961.50

LABEL: _____
DAILY COST: 4785

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

CUM COST: 23772
DATE: 5-24-83
ACTIVITY: 6-7 AM TRAVEL TO LOCATION. HOT OIL SERVICE TRUCK
02 PUMPING DOWN CSG. RIG UP DELSCO AND TRY TO FISH
03 STD. VALVE OUT OF TBG. RIG DOWN DELSCO. HOOK UP
04 TO TBG. AND PUMP 75 BBLS. 300 DEGREE WTR. DOWN
05 TBG. RIG DOWN HOT OIL TRUCK. TRY RELEASING PKR.
06 AGAIN. RIG UP DIA-LOG. CUT OFF TBG. RIG DOWN DIA
07 LOG POOH W/TBG. MADE UP FISHING TOOLS W/4 1/2 IN.
08 GRAPEL. RIH LATCH ONTO FISH. TRY TO RELEASE PKR.
09 POOH NO RECOVERY. WAIT ON 4 3/8 IN GRAPELS. MADE
10 UP NEW TOOLS. RIH TRY TO LATCH ONTO FISH. GOT HOLD
11 OF PKR. TRY TO ROTATE LOOSE. WOULD NOT RELEASE.
12 TRY RELEASING GRAPEL. COULDNT. PULL UP 20000 LB.
13 OVER STRING WT. CLOSE WELL IN FOR NIGHT. 7-8 PM
14 TRAVEL HOME. COST 2905.65 RIG TOTAL 15867.15

LABEL: -----
DAILY COST: 5933
CUM COST: 29705
DATE: 5-25-83
ACTIVITY: 6-7 AM TRAVEL TO LOCATION. CONT. TRYING TO RELEASE
02 PKR. COULD NOT RELEASE BY ROTATING. HANG BACK
03 SWIVEL. PUT ON YT SLIP TYPE ELEV. AND TRY TO
04 SAFETY PKR. CONT. JARRING ON PKR. RIG UP DIA-LOG
05 RUN STRING SHOT. DIDNT KNOCK LOOSE. TRY CUTTING
06 OFF W/JET CUTTER TWICE. DIDNT CUT. TRY ANOTHER
07 STRING SHOT. BROKE SOMETHING LOOSE. RIG DOWN DIA
08 LOG. POOH W/TBG. AND UNLOADER OFF PKR. BREAK DOWN
09 FISHING TOOLS. UNLOAD ACME TRUCKS. CLOSE WELL IN
10 FOR NIGHT. 8-9 PM TRAVEL HOME. COST 2563.40
11 RIG TOTAL 18430.55

LABEL: -----
DAILY COST: 2939
CUM COST: 32644
DATE: 5-26-83
ACTIVITY: 6-7 AM TRAVEL TO LOCATION. TALLY TOOLS. MADE UP
02 8 1/8 IN. W.P. D.C S AND BHA. RIH RIG UP TO MILL
03 UP TOP SLIPS ON 9 5/8 IN GUIBERSON PKR. MILL SEEMED
04 TO GO OVER GAUGE RING AND MADE APPROX. 2 IN. ON
05 SLIPS. TRY KNOCKING PKR. DOWN HOLE. POOH AND CHG.
06 OUT MILLING SHOE. RIH W/ D.C. S AND NEW MILLING
07 EQUIP. 1 STD. TBG. CLOSE WELL IN FOR NIGHT. 8-9
08 PM TRAVEL HOME. COST 2788.80 RIG TOTAL 21219.35

LABEL: -----
DAILY COST: 9695
CUM COST: 42339

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

DATE:	5-27 THUR 5-30-83
ACTIVITY:	ACTIVITY FINISH RUNNING IN HOLE W/NEW MILLING
02	TOOLS RIG UP SWIVEL AND HYD STRIPPER HEAD
03	START MILLING ON PKR MILL ON PKR UNTIL 7;00 P.M.
04	CLOSE WELL IN FOR NIGHT 5-28 ACTIVITY DALIY COST
05	2422 CUM COST 44761 RIG BACK UP TO MILL ON PKR
06	POOH W/MILLING TOOLS NO WEAR ON MILL SHOE
07	RIH W/8 IN IMP BLOCK POOH W/IMP BLOCK SHOWS
08	2 7/8 IN COLLAR LOOKING UP RIH W/MILL STRING SDON
09	5-29-83 ACTIVITY SUNDAY 5-30-83 ACTIVITY HOLIDAY
LABEL:	-----
DAILY COST:	2213
CUM COST:	46974
DATE:	5-31-83
ACTIVITY:	ACTIVITY UNLOAD ACME TRUCK 4 3/4 IN DCS 3 1/2 IN
02	DP AND TOOLS ETC TALLY AND MEASURE NEW TOOLS
03	POOH W/2 7/8 IN TBG MADE UP NEW TOOLS RIH
04	TRY TO LATCH ONTO FISH COULDNT TRY KNOCKING
05	DOWN HOLE BEAT FOR 3 HRS PULL UP 1 JT AND SDON
LABEL:	-----
DAILY COST:	2088
CUM COST:	49062
DATE:	6-1-83
ACTIVITY:	ACTIVITY MADE JT BACK UP AND CONT BEATING ON PKR
02	WAIT ON ORDERS FROM SHELL POOH W/3 1/2 IN DP AND TOOLS
03	NO RECOVERY RU DIA-LOG AND TRY TO LOG INSIDE OF
04	9 5/8 IN PKR COULDNT TELL IF IN PKR OR BESIDE RD
05	DIA-LOG RIH W/SHORT CATCH AND 2 7/8 IN TBG SET DOWN
06	ON PKR RIG UP DIA-LOG AND TRY AGAIN TO LOG PKR
07	LOG CSG COLLARS AND PKR RD DIA-LOG POOH W/TBG
08	SDON
LABEL:	-----
DAILY COST:	3026
CUM COST:	52088
DATE:	6-2-83
ACTIVITY:	6-7 AM TRAVEL TO LOCATION. RIG UP DIA-LOG TRY TO
02	GET INTO PKR. W/3 IN. TOOLS. WOULDNT GO. TRY
03	GETTING INTO PKR W/1 5/8 IN. COLLAR LOC. COULDNT.
04	LOG CSG. COLLARS ABOVE PKR. RIG DOWN DIA-LOG.
05	MADE UP OVER SHOT AND RIH W/ 3 1/2 IN. D.P. BE-
06	FORE LATCHING ONTO PKR. RIG UP DIA-LOG AND RUN
07	2 1/4 IN. GAUGE THRU PKR. COULD NOT GET THRU D CS
08	POOH W/ D.P. AND TOOLS. LAY DOWN D.C. RIG UP DIA
09	LOG AND RUN GAUGE RIH W/ D.P. LATCH ONTO PKR.
10	PULL UP AND JAR ON PKR. AT 90000 LB. OVER STRING
11	WT. CAME LOOSE BUT STILL STACKING OUT. POOH - SPLIT

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

12 BOWL ON O.S. AND LOST 7 IN. GRAPEL AND CONTROL.
13 WAIT ON NEW O.S. MADE UP AND RIH. LATCH ONTO PKR
14 RIG UP DIA-LOG. RIH W/ 2 1/8 IN. JET SHOT.
15 COULDNT GET INTO BUMPER SUB. POOH W/JET SHOT. MADE
16 UP 1 3/4 IN. TOOL AND RIH. MOVING SOMETHING UP
17 AND DOWN HOLE. POOH. CLOSE WELL IN FOR NIGHT.
18 COST 2875.90 TOTAL RIG COST 32891.45

LABEL: -----
DAILY COST: 2776
CUM COST: 54864
DATE: 6-3 THUR 6-4-83
ACTIVITY: ACTIVITY PUMP DOWN DP FOR 15 MIN RU DIA-LOG RUN
02 2 1/2 IN GUAGE IN DP AND THUR TOOLS SEEMED TO HAVE
03 SOMETHING FLOATING IN PIPE POOH AND RD DIA-LOG
04 RELEASE OFF PKR AND POOH LOST ANOTHER FRAPLE AND
05 GUIDE MADE UP 8 3/8 IN MILL SHOE RIH TAGGED GRAPLE
06 TRY MILLING DOWN TO PKR MADE APPROX 4 IN BREAK
07 SWIVEL OFF DP AND PULL 1 STD SDON 6-4-83
08 DAILY COST 2588 CUM COST 57452 ACTIVITY POOH W/DP
09 AND MILLING TOOLS CHG OUT MILL AND TOOLS RIH AND CONT MILLING
10 ON PKR SLIPS MADE APPROX 1 IN OF HOLE HANG BACK SWIVEL
11 AND POOH MILL COMPLETELY WORN OUT BREAK DOWN TOOLS
12 SDON

LABEL: -----
DAILY COST: 2338
CUM COST: 59790
DATE: 06-05-83
ACTIVITY: ACTIVITY MADE UP NEW 8 3/8 IN MILL SHOE RIH AND MILL
02 ON PKR SEEMED TO BE TURNING FREE POOH W/MILLING TOOLS
03 BREAK AND LAY DOWN MADE UP 8 3/8 IN OVER SHOT W/7 IN
04 GRAPLE RIH TRY TO CATCH PKR LATCH ONTO PKR RUN DOWN HOLE
05 AND POOH BREAK DOWN OS W/PKR CLEAN UP AND LOAD
06 IN GUIBERSON PICK UP SDON

LABEL: -----
DAILY COST: 7918
CUM COST: 67708
DATE: 6-6-83
ACTIVITY: ACTIVITY RIH W/DP AND TOOLS POOH LAYING DOWN RU
02 DIA-LOG LOG CSG 2000 FT TO SURFACE RIG DOWN DIA-LOG
03 CHG OUT RAMS IN BOPE AND EQUIPT BACK TO 2 7/8 IN
04 MADE UP MT STATES 9 5/8 IN 32A PKR AND RIH SET PKR
05 9 5/8 IN MT STATES TYPE A RET BP RIH AND SET
06 1675 FT PRESS TEST AGAIN HELD RUN IN HOLE TO 3400 FT
07 TEST AGAIN HELD RIH TO 4620 FT TEST CSG LEAKED
08 TEST TBG TO BP HELD RELEASE PKR AND SDON

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

LABEL:	-----
DAILY COST:	2213
CUM COST:	69921
DATE:	6-7-83
ACTIVITY:	ACTIVITY PULL PKR UP HOLE AND CONT TESTING FOR
02	LEAK TEST AT 4005 FT 1ST MOVE UP HOLE TO 3702 FT
03	TEST AGAIN FINALLY DETERMINED CSG HAS 2 HOLES
04	3545 FT AND 3850 FT POOH W/PKR LAY DOWN PKR PICK UP
05	9 5/8 IN MT STATES TYPE A RET BP RIH AND SET
06	BP AT 4000 FT SPOT 6 SKS SAND ON PKR POOH PICK UP PKR
07	AND RIH SET PKR AT 3272 FT PREPARE TO SQUEEZE IN
08	A.M. TOMORROW SDON

LABEL:	-----
DAILY COST:	30546
CUM COST:	100467
DATE:	6-8-83
ACTIVITY:	ACTVITY RIG UP HALLIBURTON RE-TEST CSG GET INJ
02	RATE PUMPED 300 SACKS CLASS G CEMENT DID NOT GET
03	SQUEEZE PUMPED 500 SACKS 250 SACKS W/2 PER CENT
04	CALCIUM CLORIDE 250 SACKS CLASS G GOT PARTIAL SQUEEZE
05	AT 4000 PSI REVERSE CIRC HOLE CLEAN PRESSURE UP TO
06	4000 PSI AND SDON

LABEL:	-----
DAILY COST:	2672
CUM COST:	103139
DATE:	6-9-83
ACTIVITY:	ACTIVITY CHECK PRESS ON TBG BLEED OFF RELEASE PKR
02	9 5/8 IN 32A MT STATES AND POOH LAY DOWN MT STATES
03	PKR MADE UP DCS AND BIT AND RIH RIG UP SWIVEL AND
04	DRILL OUT CMT GOT ON BTM AT NOON TAGGED CMT AT 3282 FT
05	MILL OUT CMT CIRC WELL CONVENTIONAL DRILL
06	UNTIL 6 P.M. CIRC HOLE CLEAN PULL UP HOLE 4 JTS
07	LAYING DOWN SDON DRILLED TO 3462 FT

LABEL:	-----
DAILY COST:	2631
CUM COST:	105770
DATE:	6-10 THUR 6-12-83
ACTIVITY:	ACTIVITY RUN BACK IN HOLE TO CMT TOP AT 3462 FT
02	AND CONT DRILLING OUT CMT HIT VOID AT 3550 FT PRESS
03	TEST CSG 1500 PSI HELD CONT DRILLING OUT CMT FELL
04	OUT OF CMT AT 3850 FT RIH 1 STD MORE PRESS TEST
05	SQUEEZE TO 1700 PSI HELD HANG BACK SWIVEL AND SDON
06	6-11-83 DAILY COST 2502 CUM COST 108272 ACTIVITY
07	POOH W/TBG AND DCS MADE UP HEAD FOR 9 5/8 IN
08	RET B.P. AND RIH REV CIRC SAND OFF BP RELEASE
09	BP AND POOH LAY DOWN BP INSTALL PLUS 45 SN ABOVE

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

10	RET HEAD START IN HOLE TO RETRIEVE 7 5/8 IN BP
11	SDON
LABEL:	-----
DAILY COST:	2543
CUM COST:	110815
DATE:	6-13-83
ACTIVITY:	ACTIVITY CONT RUNNING IN HOLE W/RET HEAD FOR 7 5/8 IN
02	PLUG STOP JUST ABOVE BP AND CIRC HOLE CLEAN STRING
03	BLOCK BACK TO 4 LINE WHILE CIRC HOLE CLEAN
04	LATCH ONTO RET BP AND TRY TO RELEASE COULDNT RELEASE
05	FROM BP AND PULL 1 STD DROP STD VALVE AND PRESS TEST
06	TBG 6000 LBS HELD START OUT OF HOLE WET SDON
LABEL:	-----
DAILY COST:	15787
CUM COST:	126602
DATE:	6-14-83
ACTIVITY:	ACTIVITY RIG UP DELSCO BRAIDED LINE TRUCK TO FISH
02	STD VALVE COULDNT GET STD VALVE OUT OF HOLE SHEAR OFF
03	RIG DOWN DELSCO POOH WET W/TBG MADE UP OS AND BUMPER
04	SUB W/2 3/8 IN GRAPLE RIH W/TBG LATCH ONTO BP TRY
05	WORKING LOOSE RELEASE OS OFF FROM BP START OUT OF
06	HOLE SDON
07	TRAVEL HOME
LABEL:	-----
DAILY COST:	4699
CUM COST:	131301
DATE:	6-15-83
ACTIVITY:	6-7 AM TRAVEL TO LOCATION. CONT. PULLING OUT OF
02	HOLE. CHG. OUT TOOLS. RIH W/MILL AND HYD. STATIC
03	BAILER. TRY SUCKING FILL OFF RET. B.P. SUCKED
04	PLUG UP INTO MILL. FILL HOLE AND TBG. W/ WTR. TRY
05	GETTING LOOSE. COULDNT. CHECK WITH SHELL SUP.
06	WAIT ON DIA-LOG. TRY STRING SHOT OUTSIDE OF TBG.
07	FOR BACK-OFF. GOT ON BOTTOM W/STRING SHOT. WORK-
08	ING TBG. W/LEFT HAND TORC. SOMETHING CAME LOOSE.
09	POOH AND RIG DOWN DIA-LOG. BREAK SWIVEL OFF.
10	SDON. 11-12 MIDNIGHT TRAVEL HOME. COST 3149.24
11	RI G TOTAL 62000.79
LABEL:	-----
DAILY COST:	2752
CUM COST:	134053
DATE:	5-16-83
ACTIVITY:	6-7 AM TRAVEL TO LOCATION. CONT. PULLING OUT OF
02	HOLE. LAY DOWN HYRRA-STATIC BAILER AND MILL SHOE.
03	ALSO HAD 2 STDS. PLUGGED. CHECK WITH SHELL. MADE

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 442
ISSUED 06/27/83

04 UP AND RIH W/RET. HEAD B.S. AND JARS. CIRC. HOLE
05 BEFORE LATCHING ONTO PLUG. PLUG MOVING DOWN HOLE
06 BUT CANT PULL. HAD TO BEAT ON PLUG. COULDNT RE-
07 LEASE RET. HEAD. JAR ON B.P. SOMETHING CAME LOOSE
08 PULL UP OUT OF 7 5/8 IN. LINER SDON. 7-8 PM
09 TRAVEL HOME COST 2602.20 RIG TOTAL 64602.99

LABEL: -----
DAILY COST: 2630
CUM COST: 136683
DATE: 6-17 THUR 6-19-83
ACTIVITY:
02 BLEED PRESS OFF WELL POOH W/TBG ETC HAD SMALL PC
03 METAL IN RET HEAD MADE UP OVER-SHOT W/2 3/8 IN
04 GRAPPLE RIH LATCH ONTO BP BEAT DOWN AND JAR ON
05 PLUG SOMETHING CAME LOOSE POOH RECOVERED BP SDON
06 6-18 DAILY COST 1963 CUM COST 138646
07 BLEED PRESS OFF WELL LAY DOWN ALL ACME FISHING
08 TOOLS PREPARE TO RUN GAS LIFT EQUIPT LOAD OUT ACME TRUCK
09 W/TOOL RIH W/7 5/8 IN LOC-SET PKR AND CAMCOS AS
PER PROG SET TBG IN SLIP W/BOP SDON 6-19-83 SUNDAY

LABEL: FINAL REPORT
DAILY COST: 10703
CUM COST: 149349
DATE: 06-20-83
ACTIVITY:
02 ACTIVITY CONT GETTING EQUIPT READY TO MOVE STRIP
03 OFF BOP AND SPOOLS WAIT ON 6X10 IN SPOOL AND
04 5000 LBS TREE COULDNT GET DONUT OUT OF 6X10 IN
05 SPOOL SET PKR AND INSTALL 6X10 SPOOL ONTO TBG
06 INSTALL AND TEST 5000 LBS TREE RIG DOWN AND PREPARE
07 TO MOVE MORE EQUIPT AWAY FROM WELLHEAD GIVE WELL
TO PROD SDON

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

Form OGC-1b

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

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Shell Western E&P Inc. ATTN: C. A. Miller 6494 WCK.

8. FARM OR LEASE NAME: Brotherson

3. ADDRESS OF OPERATOR: P. O. Box 831 Houston, Tx. 77001

9. WELL NO.: 1-3B4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL Sec. 3

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NW/4 NE/4 Sec. 3 T2S R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 6321'

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	XX	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.)*

Current Status: Gas lifting 6 BOPD + 367 BWPD + 573 MCFPD in the Wasatch (11,035'-12,842'). Well was shut-in due to uneconomical production for 28 days during January, 1984.

Proposed Work: Plug back the current Wasatch completion setting CIBP at ± 10,800'. Complete in the Green River (10,193'-698'). Acid treat with 15,000 gallons 7-1/2% HCl. Return well to production.

RECEIVED
FEB 23 1984
DIVISION OF OIL, GAS & MINING

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

SIGNED C. A. Miller TITLE Div. Oper. Engr. DATE 2/20/84

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Form OGC-1b

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

7

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

RECEIVED
JUN 11 1984
DIVISION OF OIL GAS & MINING

2. NAME OF OPERATOR: Shell Western E&P Inc.
3. ADDRESS OF OPERATOR: P. O. Box 831 Houston, Tx. 77001
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1468' FNL & 1503' FEL Sec. 3

5. LEASE DESIGNATION AND SERIAL NO.: Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Brotherson
9. WELL NO.: 1-3B4
10. FIELD AND POOL, OR WILDCAT: Altamont
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 3 T2S R4W NW/4 NE/4
12. COUNTY OR PARISH: Duchense
13. STATE: Utah

14. PERMIT NO.:
15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 6321'

16. Check Appropnate 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	[XX]	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.)*

COMPLETED OPERATIONS
(3/21-5/15/84)

Cement squeezed casing leak between 5075' and 5136'. Found casing at 3550' and squeezed with 100 sx cement. Found casing leak between 3678' and 3683'. Set internal casing patch over casing leak. Perforated and acid treated Green River (10,698'-10,193') with 15,000 gallons 7-1/2% HCl. Returned well to production.

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

SIGNED [signature] TITLE Div. Oper. Engr. DATE June 6, 1984

(This space for Federal or State office use)

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

STATE: UTAH
FIELD: ALTAMONT

WELL: BROTHERSON 1-3B4

LABEL: FINAL REPORT
WO NO.: 511227
FOREMAN: K.C. LAROSE
RIG: WOW 17
AUTH. AMNT: 37500
DAILY COST: FINAL REPORT
CUM. COST: 90784.40
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: PLUG BACK WASATCH AND COMPLETE GREEN RIVER

DATE(S): 5-19 THROUGH 5-25-84
PRESENT STATUS: 6-5-84 WELL IS ON PRODUCTION.
LATEST TEST: SEE BELOW

ACTIVITY: THE RIG MOVED OFF THIS LOCATION ON 5-15-84. THE
02 FOLLOWING DATA IS FOR SEVEN DAYS AND THIS
03 IS THE FINAL REPORT ON THIS WELL.
04 2-15-84 PRODUCTION BEFORE 25 OIL 180 WTR 350 GAS.
05 THE RIG MOVED BACK ON AND THE
06 PRODUCTION IS AS FOLLOWS. 5-19-84 125 OIL 31 WTR
07 810 MCF GAS 800 GAS INJ. 5-20-84 166 OIL 296 WTR
08 575 MCF GAS 570 GAS INJ. 5-21-84 63 OIL 25 WTR
09 900 MCF GAS 826 GAS INJ. 5-22-84 21 OIL 281 WTR 850

10 MCF GAS 799 INJ GAS 5-23-84 31 OIL 19 WTR 801 MCF GAS
11 782 GAS INJ. 5-24-84 21 OIL 19 WTR
12 900 MCF GAS 800 INJ GAS
13 5-25-84 53 OIL 188 WTR 770 MCF GAS 716 INJ GAS TOTALS
14 480 OIL 859 WTR 5606 MCF GAS 5293 INJ GAS
15 AVERAGES 69 OIL 123 WTR 801 MCF GAS 756 INJ GAS.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	12444.80
CUM. COST:	86924.40
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-14-84
PRESENT STATUS:	START TO PULL TBG.
ACTIVITY:	HELP DOWELL RIG UP TO ACIDIZE WELL. ACIDIZE WELL
02	AS PER PROG. APPROX. HALF WAY THRU JOB STARTED
03	GETTING COMM. UP CSG. BLEEDING BACK 3 B.P.M. OFF
04	CSG. RIG DOWN DOWELL. WAIT ON ORDERS FROM SHELL.
05	CHG. OUT DRILL LINE. STRIP OFF 6 IN X 10 IN.
06	SPOOL. INSTALL 10 IN. B.O.P.E. OVER TBG. RIG UP
07	FLOOR TO PULL TBG. RELEASE PKR. START OUT OF HOLE
08	SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	3860
CUM. COST:	90784.40
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-15-84
PRESENT STATUS:	FINAL RIG REPORT
ACTIVITY:	CONT. POOH W/ 7 5/8 IN. H.D. PKR. MT. STATES. CHG
02	OUT PKRS. MADE UP 7 5/8 IN. 32 A MT. STATES PKR.
03	RIH INSTALLING GAS LIFT MANDRELS AS PER PROG.
04	STRIP OFF 10 IN. B.O.P.E. STRIP 6 X 10 TBG. SPOOL
05	OVER TBG. SET PKR. AT 10250 FT. W/ 20000 LBS.
06	TENSION ON TBG. LAND TBG. INSTALL 5000 LB. X-MAS
07	TREE. TIGHTEN UP FLANGES. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	4865
CUM. COST:	69782.80
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	051084
PRESENT STATUS:	RIH
ACTIVITY:	6-7:00 P.M. TRAVEL TO LOCATION - RUN SWEDGE BACK
02	THEN PATCH - HAD TO BEAT OUT AT 3690 FT AGAIN -
03	AFTER SWEDGING OUT PATCH - CONTINUE RIH TO 7 5/8 IN
04	LINER TOP AT 10086 FT. - POOH - LAY DOWN SWEDGE -
05	MADE UP 5 3/4 IN. OVER SHOT WITH 3 1/8 IN. GRAPEL -
06	START BACK IN HOLE - CLOSE WELL IN FOR NIGHT. 7-8:00
07	P.M. TRAVEL HOME.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2273 & 2423
CUM. COST:	74479.60
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-11 & 5-12
PRESENT STATUS:	GET READY TO ACIDIZE WELL
ACTIVITY:	5-11-84 CONT. RIH W/ O.S. TRY TO CATCH PERF GUN
02	AT 10800 FT. POOH. TBG. PLUGGED. PULL WET. BREAK
03	DOWN AND LAY DOWN D.C. S AND O.S. RECOVERED PERF
04	GUN. LAY DOWN. MADE UP 7 5/8 IN. MT STATES H.D.
05	PKR. START IN HOLE. SDON.
06	5-12-84 CONT. RIH W/ 7 5/8 IN. H.D. PKR. SET
07	PKR. AT 10170 FT. W/ 30000 LBS. SET ON PKR.
08	STRIP OFF BOP. STRIP ON 6 IN. X 10 IN. TBG SPOOL
09	LAND TBG. TRY TO PRESS TEST 9 5/8 IN. CSG TO 500
10	LBS. HAD TO PUMP 300 BBLS. WTR TO FILL HOLE AND
11	TEST. GET EQUIP. READY TO ACIDIZE WELL. CLEAN OUT
12	CELLAR FLAT TANK ETC. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	1605
CUM. COST:	60219.40
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	050984
PRESENT STATUS:	LAYING DOWN SWEDGE
ACTIVITY:	6-7:00 P.M. TRAVEL TO LOCATION. CONTINUE RIH
02	WITH 6-3/4 IN. SWEDGE. BEAT THROUGH CSG PATCH.
03	POOH - CHANGE OUT TOOLS TO 8-3/8 IN. SWEDGE. RIH
04	COULD NOT GET INTO PATCH. TRY BEATING INTO PATCH.
05	HAVING TROUBLE. PULLING BACK OUT. POOH. LAY DOWN
06	8-3/8 IN. SWEDGE. CLOSE WELL IN FOR NIGHT.
07	3-4:00 P.M. TRAVEL HOME.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	4698.40
CUM. COST:	64917.80
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-9-84
PRESENT STATUS:	PULL UP ABOVE PATCH
ACTIVITY:	MADE UP 8 1/8 IN. SWEDGE. RIH. TAGGED PATCH AT
02	3685 FT. BEAT THRU PATCH. POOH. CHG. TO 8 1/4 IN.
03	SWEDGE. RIH. TAGGED AT 3670 FT. JUST INSIDE PATCH
04	SWEDGE OUT TO BELOW PATCH. STILL HAVE TO JAR BACK
05	OUT OF PATCH AT 3690 FT. PULL UP ABOVE PATCH.
06	CLOSE WELL IN FOR NIGHT.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	8155 & 2268
CUM. COST:	51136
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-4-84 & 5-5-84
PRESENT STATUS:	FISH
ACTIVITY:	5-4-84 RIG UP O.W.P. W/ 1 11/16 IN. COLLAR LOCATOR
02	TRY TO GET THRU CSG. PATCH. COULDNT. MADE UP 4 IN
03	IMP. BLOCK. RIH TAGGED FISH. RIG DOWN O.W.P. MADE
04	UP OVERSHOT W/ 1 7/16 IN. GRAPEL. RIH TRY TO
05	CATCH FISH. POOH. NO RECOVERY. CHG OUT O.S. MADE
06	UP O.S. W/ 3 1/8 IN GRAPEL. START IN HOLE. SDON
07	5-5-84 CONT. RIH W/ 4 11/16 IN. O.S. W/ 3 1/8 IN
08	GRAPEL. TRY TO CATCH COLLAR LOCATOR ABOVE 4 IN.
09	PERF. GUN. MADE APPROX. 5 FT. OF HOLE. POOH CHECK
10	FOR RECOVERY. PCS OF CSG. PATCH WADED UP IN O.S.
11	LAY DOWN TOOLS. RIH TO 2000 FT. W/ TBG OPEN END-
12	ED. CLOSE WELL IN. WAIT ON ORDERS FROM SHELL.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	4718.40
CUM. COST:	55854.40
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-7-84
PRESENT STATUS:	CHG OUT SWEDGE START IN HOLE
ACTIVITY:	WAIT ON ORDERS FROM SHELL. POOH W/ KILL STRING.
02	MADE UP 8 1/2 IN. SWEDGE. COLLARS ETC. RIH. TRY
03	SWEDGING OUT CSG. PATCH AT 3680 FT. STACKED OUT AT
04	3663 FT. COULDNT GET INTO CSG. PATCH W/ 8 1/2 IN.
05	SWEDGE. POOH. CHG. OUT TO 6 3/4 IN. SWEDGE AND
06	MORE DC S FOR WEIGHT. START BACK IN HOLE. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2608.80
CUM. COST:	36269.57
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-2-84
PRESENT STATUS:	CLEAN OUT FILL
ACTIVITY:	
02	CONT. PICKING UP TBG. AND RIH TO CLEAN OUT FILL TO 10800 FT. C.I.B.P. TAGGED BRIDGE PLUG. CIRC. HOLE CLEAN. PULL UP OUT OF 7 5/8 IN. LINER. LAYING DOWN EXCESS TBG. SDON.
03	
04	

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	4443.40
CUM. COST:	40712.97
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-3-84
PRESENT STATUS:	FISH FOR CSG. PATCH
ACTIVITY:	
02	CONT. POOH W/ PROD. TBG AND MILL. RIG UP OWP. TRY AGAIN TO PERFORATE WELL. PERF. WELL AS PER PROG. 10698 FT. TO 10350 FT. 25 SELECTIONS. 75 HOLES. LOST 4 IN. CSG PERF. GUN. PULLED OFF AT CSG. PATCH. TRY TO GET THRU PATCH W/ 4 IN. LOGGING TOOLS. COULDNT. SDON.
03	
04	
05	
06	

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	12023.40
CUM. COST:	24643.20
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-30-84
PRESENT STATUS:	4-30-84
ACTIVITY:	4-30-84 ACTIVITY: UNLOAD AND MADE UP
02	HOMCO LINER PATCH 9 5/8 INCH X 30 FT. RIH W/TBG. PATCH
03	SPOT PATCH OVER HOLE IN CSG. 3678 FT. TO 3683 FT.
04	SET PATCH 3663 FT. 3693 FT. POOH LAY DOWN HOMCO
05	SETTING TOOLS S.D.O.N.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2148.40
CUM. COST:	33660.77
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	5-1-84
PRESENT STATUS:	TALLY AND PICK UP TBG.
ACTIVITY:	PRESS. UP ON CSG. TO 1500 LBS. PATCH SEEMS TO BE
02	HOLDING. GET AHOLD OF PERFORATORS. OWP. HEAD TO
03	LOCATION. RIG UP O.W.P. PERF. WELL AS PER PROG.
04	O.W.P. COULDNT GET DOWN. STACK OUT AT 9998 FT.
05	RIG DOWN O.W.P. MADE UP 6 5/8 IN. MILL - 4-STAR.
06	RIH W/ TBG. IN DERRICK 7000 FT. CONT. TALLYING
07	AND PICKING UP TBG. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	3288
CUM. COST:	8758
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-26-84
PRESENT STATUS:	RIH WITH 8 1/2 IN. SWEDGE
ACTIVITY:	WAIT ON SHELL TO DECIDE ON NEXT STEP. ARRANGE FOR
02	8 3/8 IN. SWEDGE. MADE UP SWEDGE B.S. JARS AND
03	D CS. RIH WENT THRU BAD SPOT AT 3620 FT. DIDNT
04	DRAG AT ALL. POOH MADE UP 8 1/2 IN. SWEDGE. RIH
05	TO 3500 FT. CLOSE WELL IN. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	1793.40
CUM. COST:	12619.80
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-27 AND 4-28-84
PRESENT STATUS:	4-28-84 RE TEST BAD SPOT IN CSG.
ACTIVITY:	4-27-84 DAILY COST 2068.40 CUM COST 10826.40
02	SWEDGE 9 5/8 INCH CSG. OUT TO 8 1/2 INCH AT 3628
03	FT. TO 3640 FT. CONT. RIH TO 7080 FT. W/8 1/2 INCH
04	SWEDGE. POOH STAND BACK DC ETC. MADE UP 9 5/8
05	INCH HD MT STATES PKR. CUT DOWN 8.375 RIH TRY TO
06	ISOLATE LEAK BETWEEN 3678 FT. TO 3683 FT. PULL UP
07	ABOVE BAD SPOT IN CSG AT 3620 FT. CLOSE WELL
08	IN FOR NIGHT.
09	4-28-84 COSTS ARE GIVEN IN THE HEADING. RUN DOWN
10	TO 3800 FT. MADE SURE CSG STILL SWEDGED OUT. RE TEST
11	BAD SPOT IN CSG POOH LAY DOWN MT STATES PKR.
12	RUN DC IN HOLE BREAK OUT AND LOAD OUT. 4 STAR TOOLS
13	ETC. CLOSE WELL IN FOR NIGHT.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	3288
CUM. COST:	8758
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-26-84
PRESENT STATUS:	RIH WITH 8 1/2 IN. SWEDGE
ACTIVITY:	WAIT ON SHELL TO DECIDE ON NEXT STEP. ARRANGE FOR
02	8 3/8 IN. SWEDGE. MADE UP SWEDGE B.S. JARS AND
03	D CS. RIH WENT THRU BAD SPOT AT 3620 FT. DIDNT
04	DRAG AT ALL. POOH MADE UP 8 1/2 IN. SWEDGE. RIH
05	TO 3500 FT. CLOSE WELL IN. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	1793.40
CUM. COST:	12619.80
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-27 AND 4-28-84
PRESENT STATUS:	4-28-84 RE TEST BAD SPOT IN CSG.
ACTIVITY:	4-27-84 DAILY COST 2068.40 CUM COST 10826.40
02	SWEDGE 9 5/8 INCH CSG. OUT TO 8 1/2 INCH AT 3628
03	FT. TO 3640 FT. CONT. RIH TO 7080 FT. W/8 1/2 INCH
04	SWEDGE. POOH STAND BACK DC ETC. MADE UP 9 5/8
05	INCH HD MT STATES PKR. CUT DOWN 8.375 RIH TRY TO
06	ISOLATE LEAK BETWEEN 3678 FT. TO 3683 FT. PULL UP
07	ABOVE BAD SPOT IN CSG AT 3620 FT. CLOSE WELL
08	IN FOR NIGHT.
09	4-28-84 COSTS ARE GIVEN IN THE HEADING. RUN DOWN
10	TO 3800 FT. MADE SURE CSG STILL SWEDGED OUT. RE TEST
11	BAD SPOT IN CSG POOH LAY DOWN MT STATES PKR.
12	RUN DC IN HOLE BREAK OUT AND LOAD OUT. 4 STAR TOOLS
13	ETC. CLOSE WELL IN FOR NIGHT.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	~~511227~~ 512637
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2110
CUM. COST:	2110
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-24-84
PRESENT STATUS:	NEW AFE ON WELL TO REPAIR CSG. LEAK
ACTIVITY:	AFE NO. 512637 IN AMOUNT OF 29500 IS TO REPAIR CSG ON THE BROTHERSON 1-3B4.
02	MOVE FROM 2-2B4. RIG UP. PUMP DOWN TBG. 1/2 B.P.M.
03	AT 1500 LBS. CSG ABOVE PKR. 3318 HELD. RELEASE PKR
04	AND START TRYING TO FIND HOLE IN CSG. PKR STACKED
05	OUT AT 3620 FT. PRESS TEST CSG. ABOVE PKR. HELD
06	1500 LBS. POOH W/ 9 5/8 IN. PKR. LAY DOWN PKR.
07	CLOSE WELL IN FOR NIGHT. SDON.
08	

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	3360.44
CUM. COST:	5470.44
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-25-84
PRESENT STATUS:	RUN CSG. LOG
ACTIVITY:	MADE UP 8 1/2 IN. O.D. CSG SWEDGE AND BUMPER SUB
02	RIH TO TIGHT SPOT IN CSG AT 3620 FT. STACKED OUT
03	W/ SWEDGE. COULDNT BEAT THRU TIGHT SPOT WITHOUT
04	MORE WEIGHT. POOH LAY DOWN SWEDGE. RIG UP DIA-LOG
05	LOG CSG. FROM 7000 FT. UP CSG SLIGHTLY COLLAPSED
06	AT 3600 - 3662 FT APPROX. RIG DOWN DIA-LOG. SDON

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	_____
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2261.40
CUM. COST:	33773.77
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-3-84
PRESENT STATUS:	FINAL RIG REPORT

ACTIVITY:

02 CHECK WELL FOR PRESS. CONT. RIH W/ 9 5/8 IN. PKR
03 SET PKR AT 3318 FT. W/ K.B. PRESS UP ON CSG ABOVE
04 PKR. RIG UP SWAB EQUIP. SWAB WELL DOWN TO PKR.
05 LET SIT 1 HR. MADE SWAB RUN TO CHECK FOR INFLOW.
06 FLUID UP TO 1500 FT. IN TBG. RIG DOWN SWAB EQUIP.
07 CLOSE WELL IN W/ T.I.W. VALVE AND LOK-RAMS ON 2
08 7/8 IN. TBG. RIG DOWN AND PREPARE TO MOVE.
FINAL RIG REPORT.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	1818.40 & 2686
CUM. COST:	29035.17
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-30 & 3-31
PRESENT STATUS:	PRESS TEST CSG. TO 1500 LBS.

ACTIVITY:

3-30 - HOOK HALLIBURTON BACK UP TO TBG. RELEASE PKR. CIRC. WELL W/ HOT WTR. PREPARE HOLE TO SQUEEZE AGAIN. RE-SET PKR. PRESS TEST BACKSIDE AND GET INJ. RATE. RELEASE PKR. SPOT CMT. 100 SKS. W/ 2 % CAL. CHLORIDE. IN TBG. RE-SET PKR. PUMP CMT. INTO CSG AND HOLE. SHUT DOWN PUMPING AND START SQUEEZE OPERATION. GOT SQUEEZE 2 1/2 HRS INTO OPERATION. CIRC. HOLE CLEAN. RE-SET PKR. PRESS UP ON CMT. TO 1500 LBS. SDON. RIG DOWN HALLIBURTON GET READY WITH EQUIP TO PULL TBG.

3-31 BLEED PRESS OFF WELL. RELEASE PKR. POOH LAY DOWN PKR. MADE UP 8 1/2 IN. BIT AND X-OVER. RIH TAGGED CMT. AT 3345 FT. RIG UP POWER SWIVEL AND HYD. STRIPPER. START DRILLING OUT CMT. FELL OUT OF CMT. AT 3700 FT. CIRC HOLE CLEAN. PRESS TEST CSG. TO 1500 LBS. NOT PUMPING INTO HOLE. BUT STILL LEAKING. 400 PSI IN 5 MIN. REMOVE DRILLING EQUIP. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2477.20
CUM. COST:	31512.37
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	4-2-84
PRESENT STATUS:	START RIH TALLYING TBG.

ACTIVITY:

THAW OUT VALVES. CHECK WELL FOR PRESS. RIH W/ 8 1/2 IN. BIT TO CHECK FOR CMT. TAGGED CMT. AT 5100 FT. RIG UP SWIVEL. MILL CMT TO 5130 FT. FELL OUT OF CMT. CONT. RIH TO APPROX. 7000 FT. POOH LAYING DOWN 2 7/8 IN. TBG. BREAK DOWN 8 1/2 IN. BIT AND X-OVER. MADE UP 9 5/8 IN. MT STATES 32-A PKR. START RIH TALLYING TBG. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	1538
CUM. COST:	21807
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-28-84
PRESENT STATUS:	3-28-84 HANG BACK SWIVEL AND S.O.O.H.
ACTIVITY:	3-28-84 BLEED PSI OFF TBG. AND CMT. RELEASE 9 5/8
02	INCH 32 A MT STATES PKR POOH LAY DOWN PKR
03	MADE UP 8 1/2 INCH BIT AND X OVER SUB RIH TAGGED
04	CMT AT 5060 FT. R.U. DRILLING EQUIP. DRILL OUT CMT
05	TO 5126 FT. FELL OUT OF CMT TRY TO PSI TEST CSG.
06	AFTER CIRC. WELL CLEAN STILL LEAKING HANG BACK
07	SWIVEL AND START POOH CLOSE WELL IN
08	FOR NIGHT. S.D.O.N.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2723.15
CUM. COST:	24530.77
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-29-84
PRESENT STATUS:	3-29-84 RE SET PKR. PSI UP ON TBG.
ACTIVITY:	3-29-84 ACTIVITY: START EQUIP. AND PREPARE TO PULL
02	OUT OF HOLE W/MILLING TOOLS.GO TO SHELL OFFICE FOR
03	SAFETY METTING. FINISH POOH LAY DOWN 8 1/2 INCH
04	BIT MADE UP 9 5/8 INCH MT. STATES 32 A PKR. RIH SET
05	PKR. AT 4830 FT. SQUEEZE HOLDING START MOVING
06	UP HOLE FOUND LEAK AT 3550 FT. SET PKR. AT 3301 FT.
07	GOT INJ RATE PREPARE TO SQUEEZE HOLE. SPOT CMT. SET
08	PKR. PUMP CMT. OUT OF TBG. AND PAST PKR. 3 BBLS.
09	S.D. PUMPING AND START STAGING CMT. STAGE FOR 4 HRS.
10	COULD NOT GET SQUEEZE FINISH PUMPING CMT. AWAY AND
11	OVER DISPLACE BY 20 BBLS. RELEASE PKR. REV. CIRC.
12	HOLE CLEAN. RESET PKR. PSI UP ON TBG. S.D.O.N.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	4246.40
CUM. COST:	12741.60
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-26-84
PRESENT STATUS:	TRY FOR SQUEEZE
ACTIVITY:	MADE UP 9 5/8 IN. MT STATES 32-A PKR AND RET.
02	B.P. START RIH COULDNT GET BELOW 200 FT. W/ B.P.
03	POOH LAY DOWN B.P. RIH W/ PKR. AND SET AT 4830 FT
04	RIG UP HALIBURTON. CHECK FOR INJ. RATE 1 BPM AT
05	2000 LBS. SPOT CMT. RE-SET PKR. PUMP CMT. TO CLEAR
06	PKR. START STAGING. NOT GETTING SQUEEZE. PUMP RE-
07	MAINING CMT. AWAY. RELEASE PKR. CIRC. HOLE CLEAN
08	PULL 1 STD. SET PKR. SDON. HELP HALIBURTON DRAIN
09	UP LINES AND EQUIP.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	7527.62
CUM. COST:	20269.22
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-27-84
PRESENT STATUS:	SQUEEZE WELL
ACTIVITY:	HOOK HALLIBURTON BACK UP. RELEASE PRESS. ON CSG.
02	GOT INJ. RATE. CIRC AROUND PKR. SPOT CMT. IN TBG
03	RE-SET PKR. PUMP CMT. OUT OF TBG. START STAGING.
04	STARTED TO SQUEEZE. APPROX. 4 HRS. INTO JOB. CIRC
05	HOLE CLEAN. RE-SET PKR. AND PRESS. UP ON SQUEEZE
06	TO 2500 LBS. CLOSE WELL IN. RIG UP DRILLING EQUIP
07	PREPARE TO DRILL OUT CMT. SDON.

STATE:	UTAH
FIELD:	ALTAMONT
WELL:	BROTHERSON 1-3B4
LABEL:	-----
WO NO.:	511227
FOREMAN:	K.C. LAROSE
RIG:	WOW 17
AUTH. AMNT:	37500
DAILY COST:	2298 & 2023
CUM. COST:	8495.20
TYPE OF JOB:	REMEDIAL OIL AND GAS
OBJECTIVE:	PLUG BACK WASATCH AND COMPLETE GREEN RIVER
DATE(S):	3-23 & 3-24
PRESENT STATUS:	FOUND HOLE IN 9 5/8 IN. CSG.
ACTIVITY:	3-23-84 CHECK WELL FOR PRESS. HELP O.W.P. RIG UP
02	TO PERFORATE. PRESS. TEST CSG. AND LUBRICATOR TO
03	1500 LBS. PERFORATE AS PER PROG. 10698 TO 10193 FT
04	34 SHOTS 102 HOLES. HAD A CSG LEAK W/ 1500 LBS.
05	RIG DOWN O.W.P. DID NOT PERFORATE. WAIT ON 10 IN.
06	B.O.P. AND 9 5/8 IN. PKR. CHANGE OUT BOP. MADE UP
07	9 5/8 IN 32-A MT STATES PKR. HAD TO RUN EXTREMELY
08	SLOW SET PKR.AT 4000 FT. PRESS UP BELOW PKR. STILL
09	LEAKING. HOLDING ABOVE PKR. ON 9 5/8 IN. CSG.
10	CONT. RIH TO 6000 FT. RE-SET PKR. AND TEST BELOW
11	PKR. AGAIN. WELL FLOWING OUT OF TBG. SET PKR. AT
12	5000 FT. SDON
13	3-24 CHECK WELL FOR PRESS. BLEED OFF. PUMP DOWN
14	TBG. AND OUT CSG. RE-SET PKR AT 5000 FT. TRY TO
15	TEST CSG. AGAIN. FOUND HOLE IN 9 5/8 IN AT 5075-
16	5136 FT. RELEASE PKR AND POOH. MADE UP 9 5/8 IN.
17	RET. B.P. RIH AND TRIED TO SET PLUG. COULDNT GET
18	PLUG TO GO DOWN HOLE. OIL TO THICK. POOH. SDON.

STATE: UTAH
FIELD: ALTAMONT

WELL: BROTHERSON 1-3B4

LABEL: FIRST REPORT
WO NO.: 511227
FOREMAN: K.C. LAROSE
RIG: WOW 17
AUTH. AMNT: 37500
DAILY COST: 1938.40
CUM. COST: 1938.40
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: PLUG BACK WASATCH AND COMPLETE GREEN RIVER

DATE(S): 3-21-84
PRESENT STATUS: RIG UP EQUIP.

ACTIVITY: CLEAN UP JUNK AT 1-21A3 ON LOCATION. LOAD OUT
02 EQUIPMENT AND MOVE TO 1 -3B4. RIG UP EQUIP. BLEED
03 PRESS. OFF TBG. AND CSG. PUMP DOWN WELL. MADE UP
04 6 IN. X 10 IN. X-OVER SPOOL ON 6 IN. BOP. CHANGE
05 BACK TO 2 7/8 IN. EQUIP. LEFT WELL CLOSED IN FOR
06 NIGHT. SDON.

STATE: UTAH
FIELD: ALTAMONT

WELL: BROTHERSON 1-3B4

LABEL: -----
WO NO.: 511227
FOREMAN: K.C. LAROSE
RIG: WOW 17
AUTH. AMNT: 37500
DAILY COST: 2235
CUM. COST: 4173.40
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: PLUG BACK WASATCH AND COMPLETE GREEN RIVER

DATE(S): 3-22-84
PRESENT STATUS: SET PLUG

ACTIVITY: CHECK WELL FOR PRESS. STRIP OFF 6 IN X 10 IN TBG
02 SPOOL W/ DONUT STUCK IN SPOOL. INSTALL 6 IN. BOP
03 AND 6 X 10 ADP SPOOL. RELEASE 7 5/8 IN. LOK-SET
04 PKR. AT 11000 FT. POOH LAYING DOWN CAMCOS AND
05 EXCESS PROD. TBG. RIG UP OWP. MADE UP AND RIH W/
06 7 5/8 IN. C.I.B.P. SET PLUG AT 10800 FT. TOP OF
07 PLUG W/ 8 FT. SAND ON PLUG. SDON

RD427805418

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OCT 02 1984

DIVISION OF OIL GAS & MINING

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

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

UTEX OIL CO
% SHELL WESTERN E&P INC.
[redacted] Operator name change
PO BOX 576
HOUSTON TX 77001
ATTN: [redacted] OIL ACCT.

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)
BROTHERSON 1-03B4 4301330048 01525 02S 04W 3	WSTC	23	317	751	402
MURDOCK 1-26B5 4301330049 01530 02S 05W 26	GR-WS	28	1584	2747	6039
BROTHERSON 1-14B4 4301330051 01535 02S 04W 14	GR-WS	31	868	2489	3914
BROTHERSON 1-11B4 4301330052 01540 02S 04W 11	GR-WS	26	1593	3099	9080
CHRISTENSEN 1-33A5 4301330054 01545 01S 05W 33	GR-WS	31	858	70	1060
EVANS UNIT 1-31A4 4301330067 01560 01S 04W 31	GR-WS	31	2431	57	10702
BLEAZARD 1-18B4 4301330059 01565 02S 04W 18	WSTC	23	568	581	3422
BROTHERSON 1-02B4 4301330062 01570 02S 04W 2	GR-WS	0	0	0	0
RUST 1-4B3 4301330063 01575 02S 03W 4	GR-WS	21	567	304	478
UTE UNIT 1-36A4 4301330069 01580 01S 04W 36	WSTC	22	2753	3538	907
UTE UNIT 1-34A4 4301330075 01585 01S 04W 34	GR-WS	22	486	714	182
MONSEN 1-21A3 4301330082 01590 01S 03W 21	GR-WS	24	646	2264	5926
BROADHEAD 1-21B6 4301330100 01595 02S 06W 21	WSTC	31	1442	1685	455
	TOTAL		14112	17931	57128

JT - 2

Comments (attach separate sheet if necessary)

I have reviewed this report and certify the information to be accurate and complete. Date Sep 28 1984

Authorized signature [signature]

Telephone 801-484-2262

Form OGC-1b

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

010976

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: Brotherson

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 3 2s 4w

12. COUNTY OR PARISH: Duchesne

13. STATE:

14. PERMIT NO.: 43-013-30048

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 Jon K. Nelson 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

DOGM 56-64-21
an equal opportunity employer

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: N0675

● 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)
BROTHERSON 1-3B4 4301330048 01525 02S 04W 3	GRRV				
MURDOCK 1-26B5 4301330049 01530 02S 05W 26	GR-WS				
MURDOCK #2-26B5 4301331124 01531 02S 05W 26	WSTC				
BROTHERSON 1-14B4 4301330051 01535 02S 04W 14	GR-WS				
BROTHERSON 1-11B4 4301330052 01540 02S 04W 11	GR-WS				
BROTHERSON #2-11B4 4301331078 01541 02S 04W 11	WSTC				
CHRISTENSEN 1-33A5 4301330054 01545 01S 05W 33	GR-WS				
BLEAZARD 1-18B4 4301330059 01565 02S 04W 18	WSTC				
BLEAZARD #2-18B4 4301331025 01566 02S 04W 18	WSTC				
BROTHERSON 1-02B4 4301330062 01570 02S 04W 2	GR-WS				
RUST 1-4B3 4301330063 01575 02S 03W 4	GR-WS				
RUST #2-36A4 4301331092 01577 01S 04W 36	WSTC				
UTE UNIT 1-36A4 4301330069 01580 01S 04W 36	WSTC				
	TOTAL				

Comments (attach separate sheet if necessary) _____

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

Telephone _____

Authorized signature

PLEASE COMPLETE FORMS IN BLACK INK

ANR

ANR Production Company
a subsidiary of The Coastal Corporation

c12712

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 don't 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

2S 4W 3
43-013-30048 WSTC 1525 PA (1-03B4)

2S 3W 4
43-013-30337 UNTA 99996 SDW #2-4B3

2S 5W 27
43-013-30340 UNTA 99996 SDW #2-27B5

1S 4W 29
43-013-30276 WSTC 1831 PA 1-29A4

2S 2W 13
43-013-30366 WSTC 1905 [redacted] POW 1-13B2

1S 3W 25
43-013-30370 WSTC 1920 [redacted] POW 1-25A3 (Cont.)

2S 4W 23
43-013-30038 GR-WS 1970 TA 2-23B4

2S 4W 23
43-013-30038 GRRV 1970 TA 1-23B4

2S 5W 18
43-013-30058 WSTC 99998 PPA 1-18B5

1S 4W 27
43-013-30266 UNTA SDW 99996 1-27A4

2S 5W 11
43-013-30391 UNTA 99996 SDW 2-11B5

2S 3W 3
43-013-31193 D+1. 99999 2-3-B3

2S 4W 1
43-013-31197 D+1. 2-1-B4

1S 3W 22
43-013-30357 GRRV 1885 POW 1-22A3

2S 20
43-047-30186 GR-WS 1875 POW 1-20B2E

Form OGC-1b

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

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

RECEIVED
AUG 29 1988
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.)

1. OIL WELL [X] GAS WELL [ ] OTHER	5. LEASE DESIGNATION AND SERIAL NO.: Patented
2. NAME OF OPERATOR: ANR Production Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: P.O. Box 749, Denver, Colorado 80201-0749	7. UNIT AGREEMENT NAME: N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL	8. FARM OR LEASE NAME: Brotherson
	9. WELL NO.: 1-3B4
	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 3, T2S-R4W
14. PERMIT NO.: 43-013-30048	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302' GL
	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) Remove CIBP & Run Prod. Log			[XX]	(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:

COPY

1. RIH.
2. Drill out CIBP @ 10,800' (between Green River & Wasatch formations).
3. Run casing inspection log.
4. Put well back on line.
5. Run production log. Evaluate for future remedial work.

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

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE August 26, 1988

(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
DATE: 9-1-88
BY: John R. Baza

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN 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: N/A

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Brotherson

9. WELL NO.: 1-3B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 3, T2S-R4W

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
OCT 03 1988
DIVISION OF OIL, GAS & MINING

1. OIL WELL ☐ 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: 1468' FNL & 1503' FEL

14. PERMIT NO.: 43-013-30048

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302' 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	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Remove CIBP (Commingle)			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.)*

Procedure: Date of work performed 8/29-9/2/88

1. MIRU. NU BOP. POOH w/tbg.
2. RIH w/tbg. Tag @ 10,710 (90' from CIBP @ 10,800'). Pushed CIBP to 12,685' (168' from PBTD).
3. Return well to gas lift production.

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

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE September 29, 1988

Eileen Danni Dey

(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 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.)

RECEIVED
JAN 19 1989
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER	5. LEASE DESIGNATION AND SERIAL NO.: Patented
2. NAME OF OPERATOR: ANR Production Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: P.O. Box 749, Denver, Colorado 80201-0749	7. UNIT AGREEMENT NAME:
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL	8. FARM OR LEASE NAME: Brotherson
	9. WELL NO.: 1-3B4
	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 3, T2S-R4W
14. PERMIT NO.: 43-013-30048	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302' GL
	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 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 7-5/8" pkr & POOH w/2-7/8"tbg & gas lift eqpt.
2. RIH w/9-5/8" RBP & retrievamatic pkr. Pressure test & locate leaks in 9-5/8" csg. Cmt squeeze.
3. RIH w/7-5/8" drill plug & set @ ± 11,930'. RIH w/7-5/8" RTTS pkr. Press test plug. Reset pkr @ ± 11,720'. Establish injection rate.
4. RIH w/7-5/8" cmt retainer & set @ ±11,720'. Cmt squeeze perfs from 11,758-11,919 w/ 100 sx cmt.
5. Mill out retainer & cmt to BP (± 11,930'). TIH w/RTTS pkr & pressure test squeeze. Repeat if necessary. Mill out ret, cmt & BP. CO wellbore to PBTD (12,685').
6. Perf Wasatch & Lower Green River w/3 SPF (10,349-12,655') using 3-1/8" csg gun. (See attached list of perforating depths.)
7. RIH w/ 7-5/8" RTTS pkr & set @ ± 11,930'. Acidize perfs from 11,938-12,665' w/ 18,500 gals 15% HCL + additives. Swab back load.
8. Kill well. POOH w/pkr. RIH w/7-5/8" RBP w/ball catcher & 7-5/8" RTTS pkr. Set RBP @ ± 11,740'. Pressure test. Reset pkr. @ ± 10,300.
9. Acid stimulate perfs from 10,350-11,718' w/12,000 gals 15% HCL & add. Swab back load.
10. Kill well. Retrieve BP. POOH. RIH w/tbg & gas lift 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 Analyst DATE January 17, 1989

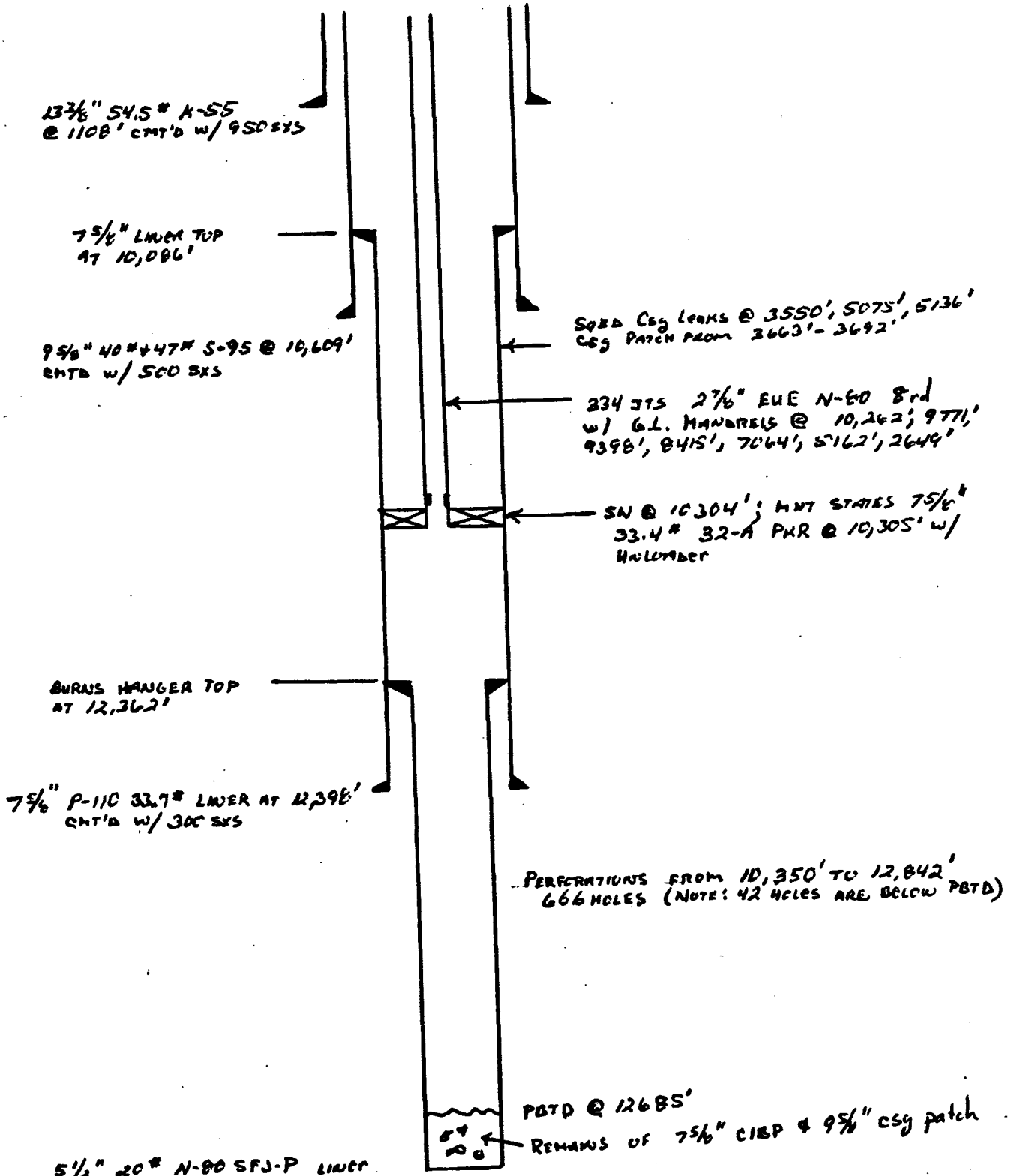
(This space for Federal or State office use)

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

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 1-26-89
John R. Baza

*See Instructions on Reverse Side

PRESENT WELLBORE SCHEMATIC
BROTHERSON #1-3B4



Perforation Schedule
Brotherson #1-3B4
NE/4 Section 3, T2S-R4W
Duchesne County, Utah

Depth Reference: Schlumberger BHC - SONIC
Runs #1 (11/3/70), #3 (12/23/70), #4 (1/16/71)

Note: Interval 10,600'-11,888' logged twice, use Run #3 for correlation.

12655	12114*	11630*	11264*	10964	10664*
12583	12103	11612*	11255*	10953	10653*
12498	12089*	11592*	11235	10943	10646*
12490	12085*	11574	11212	10937	10630*
12425	12070	11540	11185	10918	10627*
12389	12066	11526*	11168	10902	10592
12382	12049*	11514*	11161	10894	10578
12375	12042*	11506	11153	10883	10573
12364	12031*	11494	11141	10874	10557*
12355	12013	11489	11124	10869	10529*
12341*	12002	11471	11113	10864	10516
12315*	11989*	11446*	11107*	10859	10506
12294*	11971	11420	11097	10849	10501
12273*	11963*	11398	11093	10840	10497*
12249*	11716	11386	11077	10832	10483*
12225*	11707	11371*	11057*	10829	10431*
12216*	11697	11353*	11037	10814	10422*
12199*	11693	11343*	11017	10751	10417*
12192	11671*	11307*	11007	10718	10409*
12157	11666*	11290	10994	10700*	10379*
12139*	11652*	11283	10983	10684	10369
12130	11646*	11276	10972	10668*	10363
					10357
					10349

*Reperfs

Interval: 10,349'-12,655' 134 feet, 94 zones

RLR
9/19/88

Form OGC-1b

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

7

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:

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

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: ANR Production Company

8. FARM OR LEASE NAME: Brotherson

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

9. WELL NO.: 1-3B4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 1468' FNL & 1503' FEL

RECEIVED JUL 26 1989

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 3, T2S, R4W

14. PERMIT NO.: 43-013-30048

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6302' GL

DIVISION OF OIL, GAS & MINING

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	[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 chronological report for the procedure performed on the above referenced well.

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

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

BROTHERSON #1-3B4 (SQZ SURF CSG & WTR, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

6/30-7/1/89 Attempt to set pkr. RIH w/5-13/16" x 1-5/8" O.S. & BHA on 2-7/8" tbg to 7-5/8" RBP @ 10,086'. Latch RBP. POOH w/RBP. RIH w/6 GL mandrels on 2-7/8" tbg. Unable to set pkr. ND BOPS. Land tbg on hanger.
DC: $7,456 TC: $252,476

7/3/89 Place well on GL prod. Unable to set pkr. ND WH. NU BOPS. POOH w/250' 2-7/8" tbg. Pkr stuck. Unable to free pkr. ND BOP. NU WH. Land tbg w/55,000# compr. RDSU.
DC: $5,827 TC: $258,303

7/5/89 217 BO, 45 BW, 440 MCF, 610 inj/24 hrs.

7/6/89 103 BO, 183 BW, 0 MCF, 559 inj.

7/7/89 145 BO, 59 BW, 81 MCF, 474 inj.

7/8/89 61 BO, 148 BW, 8 MCF, 684 inj.

7/9/89 62 BO, 130 BW, 38 MCF, 578 inj.

7/10/89 72 BO, 229 BW, 10 MCF, 600 inj.

7/11/89 31 BO, 490 BW, 67 MCF, 1006 inj.

7/12/89 72 BO, 428 BW, 123 MCF, 979 inj.

7/13/89 62 BO, 337 BW, 91 MCF, 666 inj.

7/14/89 133 BO, 865 BW, 300 MCF, 2282 inj.

7/15/89 52 BO, 539 BW, 214 MCF, 1055 inj.

7/16/89 93 BO, 658 BW, 168 MCF, 1519 inj.

7/17/89 8 BO, 149 BW, 303 MCF, 305 inj/2 hrs. Prep to convert to rod pmp.

7/18/89 SI. Prep to convert to beam pmp. Final report.

6/12/89 CO 7" csg. CO 7" csg from 10,856' to 11,190'. Circ hole clean. RD for transmission repair.
DC: $2,660 TC: $143,252

6/13/89 CO 7" csg. CO 7" csg from 11,190' to 11,658'. Circ hole clean.
DC: $2,777 TC: $146,029

6/14/89 CO 7" csg. CO 7" csg from 11,658' to 11,848'. Circ hole clean. Plugged bit w/pieces of csg patch. RU swb equip. Swbd 3 runs. Plug came loose. Circ hole clean. CO 7" csg to 11,900'. Circ hole clean.
DC: $3,597 TC: $149,626

6/15/89 Prep to resqz perfs. CO 7" csg from 11,900' to CIBP @ 11,925'. Hole lost 50 BW. Circ hole clean. Est inj rate @ 2 BPM @ 1200#.
DC: $1,766 TC: $151,392

6/16-17/89 CO 7" csg. RIH w/6-1/8" bit on 2-7/8" tbg to 11,922'. Rev circ hole. Clean w/100 BW. Spot 100 sxs Cl "G" cmt plug. POOH to 10,902'. Rev out w/90 BW. Tag cmt top @ 11,563'. CO 7" csg to 11,770'. Circ hole clean. Having trouble with metal plugging.
DC: $9,585 TC: $160,977

6/19/89 DO CIBP. CO 7-5/8" csg from 11,770' to CIBP @ 11,925'. Circ hole clean. POOH w/6-5/8" bit on 2-7/8" tbg. Start RIH w/6-5/8" x 4-1/2" WO shoe & BHA on 2-7/8" tbg.
DC: $2,481 TC: $163,458

6/20/89 TFNB. Fin RIH w/6-5/8" x 4-1/2" WO shoe & BHA on 2-7/8" tbg to CIBP @ 11,925'. Circ hole clean w/875 BW. Milled 10". Could not get deeper. Circ hole clean.
DC: $5,361 TC: $168,879

6/21/89 POOH w/WO shoe. PU new WO shoe & TIH. WO CIBP @ 11,925' & pushed plug to 12,362'. POOH to check for plug.
DC: $3,039 TC: $171,918

6/22/89 RIH w/flat btm mill. Fill hole w/wtr. RU drlg equip. Mill over plug. TOH w/tbg. LD drlg equip. PU 4-5/8" flat btm mill.
DC: $3,185 TC: $175,103

6/23-24/89 POOH w/4-1/8" mill. CO liner to 12,660'. POOH to check mill.
DC: $4,524 TC: $179,627

6/26/89 Prep to acdz. Perf per prog w/4" 120° phasing csg gun from 10,349' to 12,655', 134 zones, 402 tot holes @ 3 SPF. Start RIH w/7-5/8" pkr.
DC: $20,641 TC: $200,268

6/27/89 Prep to acdz Upper Wasatch. Set 7-5/8" pkr @ 11,925'. Acdz perfs 11,938'-12,665' w/18,500 gals 15% HCl w/add & diverter. Good diversion. Mx press 6200 psi, avg press 5800 psi, mx rate 12.6 BPM, avg rate 11 BPM. ISIP 5200 psi. POOH w/tbg & pkr. RIH w/7-5/8" RBP & pkr.
DC: $23,291 TC: $223,559

6/28/89 POOH w/tbg, pkr & RBP. Set RBP @ 11,737'. Set pkr @ 10,286'. Attempt to press up backside unsuccessful. Leak 2.2 BPM @ 400 psi. Acdz perfs 10,350'-11,718' w/12,000 gal 15% HCl & 600 1.1 SG BS. 4788 gal into job backside came around. Mx press 5800 psi, avg press 3200 psi, mx rate 14 BPM, avg rate 8 BPM, ISIP 1090 psi. Press tst tbg on RBP to 2000 psi. Held. Rls RBP & start POOH.
DC: $16,806 TC: $240,365

6/29/89 RIH w/overshot. POOH w/7-5/8" pkr & RBP. Pulling hd on RBP backed off & dropped dn hole. Press tst 9-5/8" sqz work from 3663'-5108' to 1800 psi. Held ok. Prep to RIH w/7-5/8" overshot & retr RBP.
DC: $4,655 TC: $245,020

5/19-20/89 RIH to tag cmt top. RIH w/tbg open ended & set @ 5108'. Spot & displace 200 sxs cmt into leak @ 5077-5108' w/1230 psi. Tag cmt top @ 4735'. Reset tbg @ 3875'. Spot & displace 300 sxs cmt into leaks @ 3663-3693' & 3843-3873'. Prep to RIH to tag cmt top.
DC: $14,645 TC: $76,624

5/22/89 DO cmt. Tag cmt top @ 3496'. Press tst sqz to 2000 psi. PU & RIH w/8-1/2" mill & four 4-3/4" DCs. CO soft cmt to 3655'.
DC: $3,345 TC: $79,969

5/23/89 Mill out cmt. CO soft cmt to 3717'. Press tst to 2000 psi. Lost 200 psi in 8 min. Spot 100 sxs cmt. Sqz leak @ 3663-3693' to 2500 psi. WOC.
DC: $4,938 TC: $84,907

5/24/89 Mill out cmt. Tag cmt top @ 3438'. Mill out soft cmt to 3508'. Tbg prtd. Fish out. Cont milling soft cmt to 3530'.
DC: $4,992 TC: $89,899

5/25/89 CO 9-5/8" csg. CO 9-5/8" csg from 3530' to 3612'. Circ hole clean. TFNB.
DC: $2,301 TC: $92,200

5/26-27/89 Prep to resqz csg leak. CO 9-5/8" csg from 3612' to 3717'. Displaced hole w/400 BW. Circ hole clean. Press tst csg leak @ 3663-93' to 2000#/15 mins. OK. CO 9-5/8" csg from 3717' to 3918'. Circ hole clean. Press test csg leak @ 3843-73' to 2000#. Bled off 800#/10 mins. Est inj rate @ 1/2 BPM.
DC: $5,842 TC: $98,042

5/30/89 CO 9-5/8" csg. Est inj rate @ 1/2 BPM @ 1600#. Spot 100 sxs Class "G" cmt plug across csg leak @ 3843-73'. POOH w/2-7/8" tbg to 3061'. Rev tbg clean w/30 BW. Staged cmt & sqzd to 2000#.
DC: $6,166 TC: $104,208

5/31/89 CO 9-5/8" csg. Bleed off set press. RIH w/8-1/2" mill & tag cmt @ 3853'. CO 9-5/8" csg to 3963'. Circ hole clean. Press tst csg leak sqz to 2000#. Bled off 150#/12 mins. CO 9-5/8" csg to 4843'. Circ hole clean.
DC: $2,351 TC: $106,559

6/1/89 CO 9-5/8" csg. CO 9-5/8" csg from 4843' to 4959'. Circ hole clean.
DC: $2,394 TC: $108,953

6/2-3/89 POOH w/tbg & RBP. CO cmt to 5088', void to 5100'. Mill out cmt to 5199'. Press tst to 2000 psi - held. POOH w/CO tools. Rls RBP @ 10,151'. Start POOH w/RBP.
DC: $6,886 TC: $115,839

6/5/89 Drlg cmt. RIH w/6-5/8" drag bit & DC's. Tag cmt @ 11,369'. RU to drl.
DC: $1,777 TC: $117,616

6/6/89 Cont to drl out. Drl thru cmt bridge @ 11,369' (±1'). Pushing part of csg patch ahead of bit. Pushed & drld patch & some green cmt to 11,750'.
DC: $3,740 TC: $121,356

6/7/89 Fin POOH w/tbg & bit. CO wellbore to 11,774'. Bit plugged. Start POOH.
DC: $3,650 TC: $125,006

6/8/89 RU to sqz. 6-5/8" drag bit plugged w/iron from csg patch. PU & RIH w/6-5/8" bladed mill. CO wellbore to 11,774'. RU to sqz.
DC: $2,398 TC: $127,404

6/9-10/89 CO 7" csg. Filled hole w/210 BW. Circ hole clean. Spot 300 sxs Cl "G" cmt plug @ 11,770'. POOH to 10,115'. Rev out 90 BW. POOH w/BHA on 2-7/8" tbg. RIH w/6-5/8" bit on 2-7/8" tbg. Tag cmt @ 10,544'. CO 7" csg to 10,856'.
DC: $13,188 TC: $140,592

THE COASTAL CORPORATION
PRODUCTION REPORT

BROTHERSON #1-3B4 (SQZ SURF CSG & WTR, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 33.8403% ANR AFE: 62617
TD: 12,850' (WASATCH)
CSG: 5" LINER @ 12,362'-12,847'
PERFS: 10,350'-12,842'
CWC(M$): $218.9

4/30/89 Rls pkr & POOH w/G.L. prod equip. MIRU. Kill well. Prep to rls prod pkr.
DC: $2,258 TC: $2,258

5/1/89 Fin RIH w/9-5/8" csg scraper. Pmpd 130 BW dwn csg & tbg. Rel pkr. POOH w/7-5/8" pkr & 7 G.L. mandrels. Start RIH w/9-5/8" csg scraper.
DC: $3,249 TC: $5,507

5/2/89 POOH w/9-5/8" csg scraper. Fin RIH w/9-5/8" csg scraper to LT @ 10,086'.
DC: $1,933 TC: $7,440

5/3/89 Scrape 7-5/8" csg. SITP 100#. POOH w/9-5/8" csg scraper on 2-7/8" tbg. Pulled 20,000# over csg patch @ 3663-93'. Start RIH w/7-5/8" csg scraper on 2-7/8" tbg.
DC: $1,273 TC: $8,713

5/4/89 Fin POOH w/7-5/8" csg scraper. CO 7-5/8" csg to liner top @ 12,362'. Start POOH w/7-5/8" csg scraper.
DC: $2,047 TC: $10,760

5/5/89 POOH w/7-5/8" pkr. RIH w/7-5/8" CIBP on WL & set @ 11,925'. RIH w/H.D. pkr. Tst CIBP. OK. Set pkr @ 11,730'. Inj rate 4 BPM @ 0 psi. Start POOH w/pkr.
DC: $5,517 TC: $16,277

5/8/89 Repair rig. SITP 275#. Fin POOH w/7-5/8" pkr on 2-7/8" tbg. RIH w/2-7/8" tbg to 9500'. RD for repairs.
DC: $1,858 TC: $18,135

5/9/89 Dwn for rig repairs.

5/10/89 POOH w/pkr & RBP. SITP 225#. Fin RIH w/2-7/8" tbg OE to 11,922'. Spot 100 sxs cmt plug. Displaced w/22 BW. POOH w/2-7/8" tbg. RIH w/7-5/8" RBP & 9-5/8" pkr on 2-7/8" tbg. Pkr will not pass thru csg patch @ 3663'. Start POOH.
DC: $8,875 TC: $27,010

5/11/89 Prep to mill out csg patch. POOH w/9-5/8" pkr & 7-5/8" RBP. RIH w/7-5/8" RBP on 2-7/8" tbg & set @ 10,151'. POOH.
DC: $1,618 TC: $28,628

5/12-13/89 Milling 13-3/8" surf csg. Dump 3 sxs sd on RBP @ 10,151'. PU & RIH w/8-3/8" string mill, BS, jars & 4 - 3/4" DC. Tag csg patch @ 3663'. Mill thru patch. POOH.
DC: $16,535 TC: $45,163

5/15/89 Milling on csg patch. PU & RIH w/8.525" string mill, DCs, jars & BS. Mill out patch from 3663' to 3676'.
DC: $6,362 TC: $51,525

5/16/89 Isolating hole in csg. Fin mill out patch from 3676'-93'. PU & RIH w/pkr. Set pkr @ 3717'. Press tst to 1000 psi. Leaked off to 0 psi in 2 mins.
DC: $3,578 TC: $55,103

5/17/89 RIH w/RBP & pkr. Attempt to isolate leak w/pkr. Unsuccessful. PU & RIH w/RBP & pkr.
DC: $2,593 TC: $57,696

5/18/89 RIH w/tbg. Isolate csg leaks @ 5078'-5108', 3843'-3873' & 3663'-3693'. LD pkr & RBP.
DC: $4,283 TC: $61,979

Form 9

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

6. Lease Designation and Serial Number: Patented

7. Indian Allottee or Tribe Name: N/A

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— for such proposals.

8. Unit or Communitization Agreement: N/A

1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other (specify)

9. Well Name and Number: Brotherson #1-3B4

2. Name of Operator: ANR Production Company

10. API Well Number: 43-013-30048

3. Address of Operator: P. O. Box 749, Denver, Colorado 80201-0749

4. Telephone Number: (303) 573-4476

11. Field and Pool, or Wildcat: Altamont

5. Location of Well
Footage: 1468' FNL & 1503' FEL
QQ, Sec, T., R., M.: SWNE, Section 3, T2S-R4W
County: Duchesne
State: UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
[ ] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[X] Other Emergency Pit			

Approximate Date Work Will Start: _____

Date of Work Completion: _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

13. 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.)

ANR Production Company requests permission to close the existing emergency pit on the above-referenced location using microbial remediation and install a lined pit. The liner will be seamless, 30 MIL, and 20 year warranted. Any emergency use of this pit will be reported to your office as soon as possible and the pit will be emptied and the liquids disposed of in an approved manner within 48 hours following its use, unless otherwise instructed by your office.

(Please see the attached letter submitted to your office 5/7/91 further describing this project.)

RECEIVED
JUL 0 1 1991
DIVISION OF
OIL, GAS & MINING

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

Name & Signature: Eileen Danni Dey Title: Regulatory Analyst Date: 6/27/91

(State Use Only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 7-9-91
BY:

(8/90)

See Instructions on Reverse Side

Our intent is simple. COG will construct an emergency pit immediately adjacent to the existing pits. The new pit's size will be held to a minimum, yet large enough to provide adequate protection. The new pit will be lined using a 30 mil, 20 year warranty, seamless liner. All emergency piping will be removed from the pit to be closed and diverted to the new lined excavation. The old pit will be closed by microbe or other closure technology.

COG feels we are eliminating the potential environmental liability exposure of the past practice of unlined pits. Additionally, the now lined pits afford COG, as a prudent operator, the opportunity to keep the pits clean, remove any liquids as a result of upset conditions within 48 hours and most importantly the pit liner will be inspected on a documented scheduled basis for maximum efficiency. If a problem is noted, corrections will receive priority attention.

The pits listed in your letters to Coastal Oil & Gas Corporation and ANR Production Company Co., Inc. will be the first pits on our state leases to be closed.

To re-confirm our position, COG conducts it's operations in an environmentally sound manner. With the State of Utah's approval for the installation of "lined emergency pits", we will continue with our planned pit closure program. At the same time this program offers future protection to the groundwater and other natural resources in Utah.

Your approval of COG's request to install "lined emergency pits" would be appreciated. Additionally, at your request COG will provide the State of Utah with a copy of our Waste Management Program.

If there are any questions or if additional information is needed, please do not hesitate to call.

Very truly yours,

Michael E. McAllister, Ph.D.

MEM:sc

bcc: R.L. Bartley
E. Dey
W.L. Donnelly
L.P. Streeb

Coastal
The Energy People

MICHAEL E. McALLISTER, Ph. D
DIRECTOR
ENVIRONMENTAL & SAFETY AFFAIRS
COASTAL OIL & GAS CORPORATION

May 7, 1991

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

Attention: Dianne R. Nielson, Ph.D.
Division Director

Dear Ms. Nielson:

Coastal Oil & Gas Corporation and ANR Production Co., Inc., known hereafter as COG welcomes the opportunity to provide the State of Utah with information regarding our emergency pits in the Altamont/Bluebell producing areas.

COG shares your concern for protecting ground water and other natural resources. We recognize our responsibility to conduct our operations lawfully, ethically and in an environmentally responsible manner.

COG acknowledges the potential environmental liabilities with emergency pits. Therefore, we are currently conducting a pilot program using bioremediation technology as the closure technique. It is anticipated that the microbial treatment process will achieve a cost effective closure while eliminating long term waste disposal liabilities associated with conventional closure technologies.

COG is currently 90 days into the pilot program. The selected pits have been inoculated and filled to the desired liquid level. The pit walls and bottoms have been manually turned to achieve maximum microbial contact. To date, we are able to photographically document the success of our efforts. If the program continues to progress as expected, we will use this technology as our plan of action for the remaining pits.

Utilizing microbes or any other type of closure technique will necessitate the need for emergency containment in the event of an operating system upset and/or failure. COG respectfully requests, as part of our plan of action, the State of Utah's approval to utilize <u>lined</u> emergency pits to meet this need.

BROTHERSON #1-3B4
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

7/21/91 Broken 1" BOT on btm of 44th 1" Norris 97 1989 @ 1151". Replace 44th & 45th 1" & 8 BOPES above & below.

TC. $4,620

7/27 - 7/28/91 Prt'd @ 3900' - 7/8" pin break. 34th rod chg 17 X 7/8" rods 26 thru 43.

TC. $7,660

10/8 - 10/9/91 1" box break @ 325'. POOH w/rods, replace 2 - 1", 2 - 3/4" & 17 - 1" boxes.

TC: $5,965

4/6 - 4/7/92 Pin break on btm of 41 - 7/8" rod @ 4050' (1987 Norris 97).

7/15 - 7/16/92 Broken coupling 2' below polish rod. POOH w/rods.

TC: $4,077

7/11 - 1/13/93 1" coupling break on btm of both rod @ 4100' 1989 Norris 97. Replace ALL 1" couplings w/LTV's. Broke pin on 3/4" rod #18 1988 Norris 97. RIH. Broke pin on 7/8" on #79 @ 4975' & #75 @ 4980'. Replace all 7/8" rods & couplings.

TC: $20,293

7/20 - 7/21/93 3/4" pin break on 17th rod @ 6575' 1985 Norris 97. Replace top 20 - 3/4" rods and chg rod design.

TC: $8,375

9/26 - 10/2/93 3/4" pin break on btm of 65th rod 1987 Norris 97. Jumped pin while POOH on top of 25th rod @ 7375' (1987 Norris 97". Strip rods out of hole, replace 3/4" rods.

TC: $28,225

11/16 - 11/29/93 Attempt to isolate csg leak. POOH w/tbg. Had to back off rods because pump would not unseat. Run 9-5/8" csg scrape to 7-5/8" LN top @ 10,096'. Run 7-5/8" csg scraper to 10,406'. Set RBP @ 10,258' set pkr @ 10,142'. Isolate hole in csg from 5129' to 10,047'. RIH w/9-5/8" pkr. Pump into liner lap 4.4 BPM @ 800. Dump 2 sxs sand on RBP @ 10,042'. Set 7-5/8" RBP @ 10,058' & dump 2 sxs sand on top. Set RBP @ 7600'. Pressure test csg, leaked. Unable to retrieve RBP. Appears there is csg damage. RD.

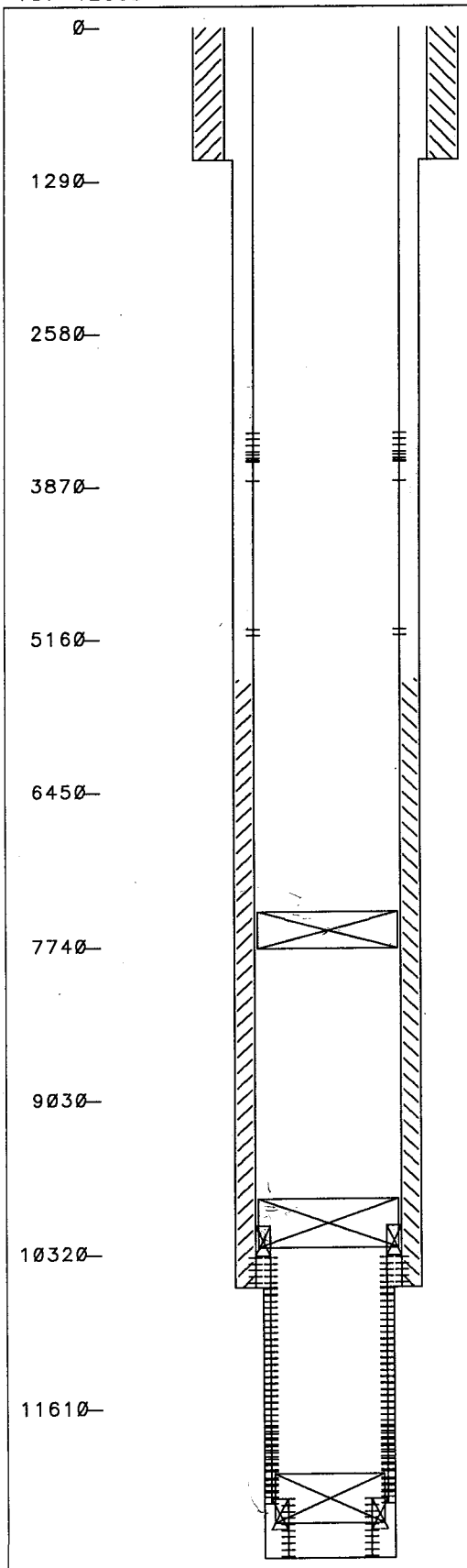
TC: $51,455

Lease: BROTHERSON
Well #: 1-3B4

Spud Date: 09/06/1970
KB: 6321
TD: 12850

Comp Date: 01/24/1971
ELEV: 6302
PBTD: 0

API #: 43-013-30048-
Location: Sec 03 Twn 02S Rng 04W
County: DUCHESNE
State: UTAH
Field: ALTAMONT
Operator: ANR PRODUCTION CO.



Start	End	Size / Length	Description
0.0	1108.0	17.500 / 1108.0	Hole: SURFACE
0.0	1108.0		Cement: 750SX 1:1POZ+4%GEL+2%CACL TAIL W/200SX CL G+2%CACL
0.0	1108.0	13.375 / 1108.0	Casing: SURFACE 54.5# K-55
3545.0	3550.0	5.0	Perf: LEAK IN CSG SQUEEZED
3600.0	3662.0	62.0	Perf: NO PERF BAD CASING COLLASPED SWEDGED OUT ONCE
3663.0	3693.0	30.0	Perf: SET HOMCO LINER PATCH
3850.0	3851.0	1.0	Perf: LEAK IN CSG. SQZ W/800SX @4000PSI TEST TO 1700PSI HELD OK
5075.0	5136.0	61.0	Perf: HOLE IN CSG. SQUEEZED
7600.0	7606.0	9.625 / 6.0	Plug: RBP UNABLE TO RETRIEVE
10058.0	10066.0	9.625 / 8.0	Plug: RBP W/2SX SAND ON TOP
1108.0	10600.0	12.250 / 9492.0	Hole: PRODUCTION
10350.0	10600.0	250.0	Perf: OWP PERF3 SHOTS PER FT
0.0	10600.0	9.625 / 10600.0	Casing: PRODUCTION 129JTS S-95 47# ST&C & 18JTS S-95 40#
5500.0	10600.0	5100.0	Cement: 300SX 1:1POZ+2%GEL+15%SALT TAIL W/200SX CL G+15%SALT
10600.0	10698.0	98.0	Perf: 3 SHOTS PER FT LOST 4" GUN IN HOLE RECOVERED
11035.0	11676.0	641.0	Perf: 53 HOLES 4" OD GUN 19 GRAM CHARGES perfs squeezed
11749.0	12163.0	414.0	Perf: 23 HOLES 4" OD 19 GRAM CHARGES
12199.0	12345.0	146.0	Perf: 19 HOLES
12351.0	12359.0	7.625 / 8.0	Plug: cibp pushed down hole
10349.0	12398.0	2049.0	Perf: 3spf
10086.0	12398.0	7.625 / 2312.0	Liner: 54JTS 33.4# HYDRIL FJ CMT TOP OF LINER TOC10648 BEFORE DRLG OUT
12359.0	12655.0	296.0	Perf: 3spf
12412.0	12842.0	430.0	Perf: 4JSPF W/3 1/8" GUN
12359.0	12847.0	5.500 / 488.0	Liner: NOT CEMENTED
10600.0	12850.0	8.625 / 2250.0	Hole: LINER

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 [X] GAS [ ] OTHER:

APR 1 1994

8. Well Name and Number: Brotherson #1-3B4

2. Name of Operator: ANR Production Company

9. API Well Number: 43-013-30048

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: 1468' FNL & 1503' FEL

County: Duchesne

QQ, Sec., T., R., M.: SWNE Section 3-T2S-R4W

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)	
[X] Abandonment	[ ] New Construction	[ ] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[ ] Other			

Approximate date work will start: 4/30/94

Date of work completion:

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION 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 P&A Procedure for the subject well.

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

DATE: 4-7-94

BY: JR Matthews

13.

Name & Signature: Joe Adamski/sab

Title: Joe Adamski Environmental Coord.

Date: 3/30/94

(This space for State use only)

(12\92)

(See Instructions on Reverse Side)

PLUG AND ABANDONMENT PROCEDURE

Brotherson 1-3B4
Altamont Field
Duchesne County, Utah
March 25, 1994

WELL DATA

Location:	1468' FNL & 1503' FEL (SW/NE) Sec 3-T2S-R4W
Elevation:	6302' GL, 6321' KB
WI:	57.89614% NRI: 50.65911% (ANRPC)
Spud Date:	9/6/70
Completion Date:	1/24/71
Total Depth:	12,850' PBTD: 12,663' RBP @ 10,058', RBP @ 6,803'
Casing:	13-3/8 ", 54.5# K-55 @ 1108', cmtd w/950 sx (circ)
	9-5/8 ", 40-47#, S-95 LT&C, ST&C set @ 10,609', cmtd w/500 sx (full returns)
	7-5/8 ", 33.7#, S-95 FJ set @ 10,086-12,398', cmtd w/300 sx, (good circ).
	5-1/2 ", 20#, N-80 SFJP set @ 12,362-12,847'(uncemented).
Tubing:	2-7/8 " N-80 6.5# EUE @ 5010'.

TUBULAR DATA

Description	Interval	I.D.	Drift	(BPF) Capacity	(psi) Burst	(psi) Collapse
9-5/8 " 40# S-95 L&ST&C	0-5,304'	8.835"	8.679"	.0758	6,820	4,230
9-5/8 " 47# S-95 ST&C	5,304-10,609'	8.681"	8.525"	.0732	8,150	7,100
7-5/8 " 33.7# P-110 SFJP	10,086-12,398'	6.765"	6.640"	.0444	10,860	7,870
5-1/2 " 20# N-80 SFJP	11,443-14,098'	4.778"	4.653"	0221	10,910	10,630
2-7/8 " 6.5# N-80 EUE	0-5,010'	2.441"	2.347"	.00579	10,570	11,160

Current Production: SI -- casing leak.

Cement Squeezes: Csg leaks: 3545-3850' w/800 sx (6/83).
Csg leaks: 3550'w/300 sx, 5075'-5136'w/100 sx. Install csg patch 3663-93'(5/84).
Csg leaks: 3663-3873' w/500 sx, 5077-5108' w/200 sx (4/89).
Wasatch perfs 11,758-11,919' w/100 sx (4/89).

Existing Perfs: Wasatch 10,350-12,842', 1068 holes.

Cumulative Production: 921,094 BO, 1,262,796 MCF, and 1,212,562 BW (12/93)

WELL HISTORY-Wasatch

January 1971	Initial completion: IPF 550 BOPD, 500 MCFD on 6/64 " ck , from open hole Wasatch interval 12,400-12,850'.
April 1972	Install liner 12,362-12,847', uncemented, perforated 12,412-12,842', 4 spf, 520 holes. Oil increased from 34 to 335 BOPD.
December 1974	Foamed acid wash w/coiled tbg, 2100 gal HCl. Oil dropped (170 to 70 BOPD).
April 1975	Remove wax plug in tubing. Oil increased from 0 to 123 BOPD.
April 1977	Perforate Wasatch 12,195-12,340' & Acidize w/8,400 gal 15%. Oil production increased from 0 to 1000 BOPD.
May 1977	Install gas lift. Oil production increased from 0 to 454 BOPD.
October 1977	Perf 11,749-12,163', 1 spf, 23 holes. Acidize perfs from 11,749-12,340' w/10,800 gal 15% HCl. Perf 11,035-11,676', 1 spf, 53 holes. Acidize perfs w/ 12,000 gal 15% HCl. Oil increased from 374 to 742 BOPD.
June 1982	Clean out and acidize Wasatch w/16,000 gal 15% HCl. Oil production increased from 16 to 125 BOPD.
June 1983	Sqz csg leaks @ 3545' & 3850' w/800 sxs. Oil production increased from 0 to 28 BOPD.
May 1984	Sqz csg leaks @ 3550', 5075', 5136'. Install csg patch from 3663-3693'. Perforate L. Green River 10,350-10,698', 3 spf, 51 holes. Acidize L. Green River w/ 15,000 gal 7-1/2% HCl. Oil production increased from 6 to 69 BOPD.
November 1988	Remove BP between L.Green River & Wasatch. Oil production increased from 0 to 7 BOPD.
April 1989	Mill out casing patch. Sqz csg leak @ 5077-5108' w/200 sx. Sqz csg leaks from 3663-3693' and 3843-3873' w/500 sxs. Cmt sqz wasatch perforations 11,758-11,919', 13 holes w/100 sx. Perforate from 10,349-12,655' 3 spf, 402 holes. Acidize Wasatch perforations 11,398-12,665'(615 holes) w/18,500 gal 15% HCl. Acidize Wasatch perforations 10,350-11,718'(398 holes) w/12,000 gal 15% HCl. Oil production increased from 0 to 145 BOPD.
July 1989	Install beam pump. Oil production increased from 52 t0 83 BOPD.

Note: Prior to commencing work, notify Utah Division of Oil, Gas & Mining 24-hours in advance. The UDOGM will have an inspector on location to witness plugging operations (if possible).

PROPOSED PROCEDURE

1. MIRU workover rig. Kill well. ND WH, NU BOP, TOH w/tbg. PU 8-5/8 " mill & TIH to +/-6750 '. POH & LD mill.

2. PU CICR on 2-7/8 " tbg & TIH. Set retainer @ 6,750'. Sting out of CICR and circulate wellbore w/9.0 ppg mud.

3. RU cementers, sting into CICR & pump 400 sx Class "G " cmt (1.15 ft3/sx). Pump 300 sx below retainer. Sting out of CICR and leave 100 sx (270 feet) inside 9-5/8 " casing. POH w/tbg.

4. TIH w/tbg open ended to 5140'. Spot 590 sk Class "G " balanced plug from 5140-~~3530'~~ 3300 (cover previously squeezed csg leaks. POH w/tbg. Tag Plug. !

5. ~~PU CICR on 2-7/8 " tbg & TIH to 3450'. Set CICR. Spot 100 sx Class "G " on top to 3180'. POH.~~

6. RU wireline ~~& perforate 4 squeeze holes w/~~ Do not perforate Csg 4 " csg gun @ 1158'. ~~Set CICR @ 1125'. RD wireline.~~

5. RU cementers & pump 200 sx Class "G " cmt (1.15 ft3/sx). Pump 100 sx below cmt retainer (TOC in 13-3/8 " X 9-5/8 " csg annulus approx 880'). Sting out of CICR and leave 100 sx (270 feet) inside 9-5/8 " casing (TOC @ 888'). POH w/tbg to 300'. ND BOP.

6. RU cementers & pump 115 sx Class "G " cmt (1.15 ft3/sx) surface plug. Circulate cmt to surface. POH w/tbg.

7. Attempt to pump into 13-3/8 " X 9-5/8 " casing annulus. If an injection rate is achieved, pump 100 sx Class "G " down the annulus.

8. Cut off well head, weld on plate/dry hole marker with the following information:

   ANR Production Company
   Brotherson 1-3B4
   SWNE section 3-T2S-R4W
   Altamont Field
   Duchesne County, Utah

9. RDMO workover rig.

PROPOSED PLUG & ABANDONED WELLBORE

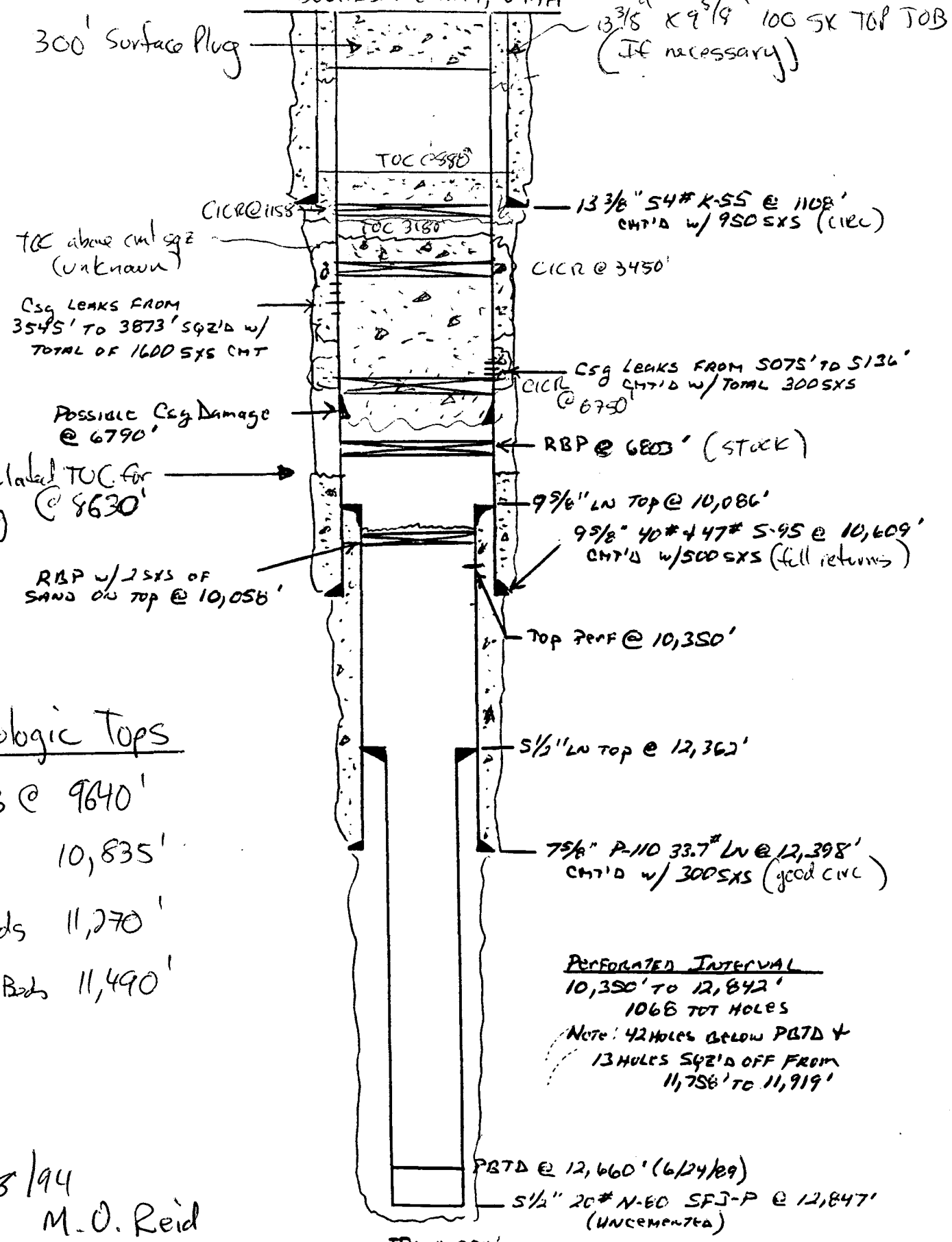
WELLBORE SCHEMATIC

BROTHERSON #1-3B4

GL 6301' KB 6321'

SW NE Section 3-T3S-R4W

DUCHESNE COUNTY, UTAH



Geologic Tops

T6R3	9640'
M1	10,835'
Top Red Beds	11,270'
Bottom Red Beds	11,490'

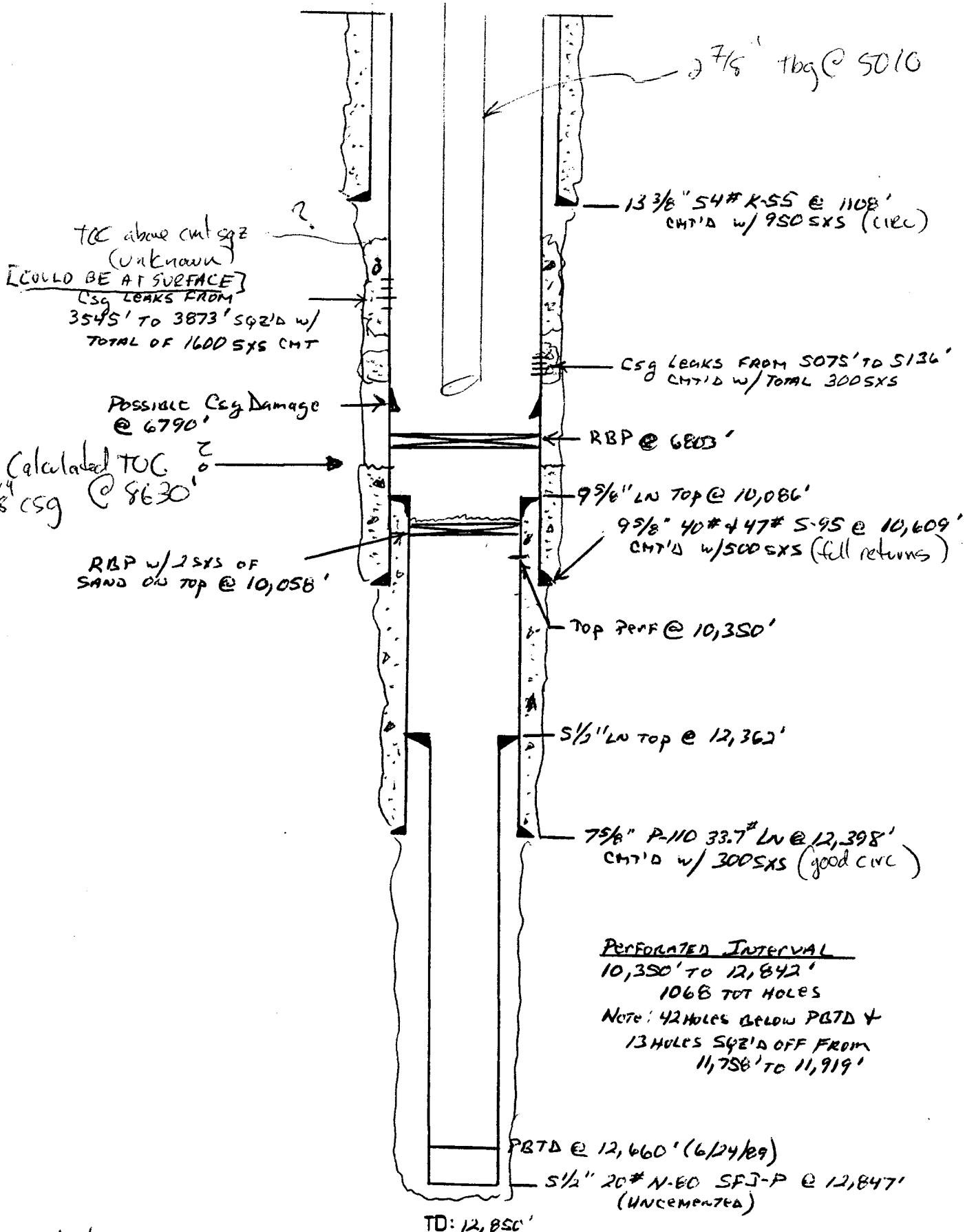
PERFORATED INTERVAL
10,350' TO 12,842'
1068 TOT HOLES
NOTE: 42 HOLES BELOW PBTD &
13 HOLES SQZ'D OFF FROM
11,758' TO 11,919'

3/8/94
M.O. Reid

PRESENT WELLBORE SCHEMATIC

BROTHERSON #1-36A

GL 6302' KB 6321'



2/8/94 M.O. Reid

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)

April 7, 1994

Stipulations for Plugging and Abandonment
Brotherson 1-3B4
SW/NE Section 3, Township 2 South, Range 4 West
Duchesne County, Utah
API NO. 43-013-30048

1. In Step 4, bring cement to 3300' because of the Base of Moderately Saline Ground Water. TAG PLUG!

2. In Step 6, it is not necessary to perforate casing. Set a 100' balanced cement plug across the shoe of the 13 3/8" casing. (1158 to 1058)

3. No perforations, delete step 5.

4. Fill all annuli with cement after cutting off well head.

5. Notify DOGM 24 hrs. prior to setting plugs.

J.B. Matthews

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ABANDONMENT OPERATIONS

COMPANY NAME: ANR Production Company

WELL NAME: Brotherson #1-3B4

QTR/QTR: SW/NE SECTION: 3 TWP: 2S RANGE: 4W

CEMENTING COMPANY: Basin Cementing WELL SIGN: yes

INSPECTOR: David W. Hackford TIME: various DATE: 6/9/94

==========

CEMENTING OPERATIONS: PLUGBACK: _____ SQUEEZE: _____ P&A WELL: yes

SURFACE PLUG: 1160' to 1025' INTERMEDIATE PLUG: 5140' to 3300'

BOTTOM PLUG SET AT: 6750' WIRELINE: _____ MECHANICAL: X

PERFORATIONS: _____ SQUEEZE PRESSURE: _____

==========

CASING SIZE & GRADE: SURFACE: 13 3/8 K-55 PRODUCTION: 5 1/2 N-80

PRODUCTION CASING TESTED TO: N/A PSI TIME: _____ MIN

==========

SLURRY INFORMATION : (INCLUDE NO. OF SACKS, CLASS AND ADDITIVES)

1. SURFACE PLUG: 50 sacks class G 2% CaCl at shoe. 150 sacks @ surface.
2. INTERMEDIATE PLUG: 900 sacks class G 2% CaCl
3. BOTTOM PLUG: 400 sacks class G neat.
4. CEMENT ON TOP OF PLUG: 100 sacks class G neat.
5. ANNULUS CEMENTED: 255 sacks class G. First 50 sacks 3% CaCl
6. TYPE OF FLUID LEFT IN WELL BORE: Production water with packer fluid.

==========

ABANDONMENT MARKER SET:

PLATE: _____ PIPE: X CORRECT INFORMATION: yes

REHABILITATION COMPLETED: no

==========

COMMENTS: _____

Plugging and abandonment of Brotherson 1-3B4. SW/NE sec. 3 T2S R4W ANR Production Company.

6/9/94
Set CICR @ 6750'. Pumped 300 sacks class G cement through retainer. Pressured up and unable to pump with 2 barrels cement remaining in tubing. Pulled tubing and pumped clear. At this point well was flowing 50 barrels per hour production water, probably from close by disposal wells.

6/10/94
Spotted 100 sacks class G neat cement on top of retainer. Lay down tubing to 5140'. At this point water flow increased to 90 barrels per hour. Spot 200 sacks class G cmt. balanced plug 2% cacl. POOH.

6/11/94
Tagged contaminated cement @ 4830'. Tubing would go through cement. Tag should have been @ 4600' but plug shut off water flow. Pumped 200 sacks class G 2 % cacl. @ 4830' POOH.

6/12/94
Tagged cement @ 4430'. Picked up tubing to 4370'. Pressure test casing to 500 psi for five minutes. Pumped 250 sacks class G neat cement. Lay down to 3695' and pumped 250 sacks class G 2% cacl.

6/13/94
Tagged top of balanced plug @ 3300'. Lay down tubing to 1160'. Pump 50 sacks class G 2% cacl. cement. Lay down tubing to 310'. Circulate cement to surface. Class G neat.
Move out rig. Pump into 9 5/8-13 3/8 annulus with 50 sacks class G 3% cacl. Cut off wellhead.

6/14/94
Fill annulus 9 5/8-13 3/8 with 180 sacks class G neat cement.

6/15/94
Pumped 30 barrels water into same annulus and one inched top 60 feet with class G neat cement. (25 sacks.) Weld on monument.

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
SEP 26 1994
DIV. OF OIL, GAS & MINING

5. Lease Designation and Serial Number: Patented

6. If Indian, Allottee or Tribe Name: N/A

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.

7. Unit Agreement Name: N/A

1. Type of Well: OIL [X] GAS [ ] OTHER:

8. Well Name and Number: Brotherson #1-3B4

2. Name of Operator: ANR Production Company

9. API Well Number: 43-013-30048

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: 1468' FNL & 1503' FEL County: Duchesne

QQ, Sec., T., R., M.: SW/NE Section 3-T2S-R4W 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)	
[ ] Abandonment	[ ] New Construction	[X] Abandonment *	[ ] New Construction
[ ] Casing Repair	[ ] Pull or Alter Casing	[ ] Casing Repair	[ ] Pull or Alter Casing
[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[ ] Other			

Approximate date work will start _____

Date of work completion 6/15/94

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION 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 attached chronological history for work performed to P&A the subject well.

13.

Name & Signature: N.O. Shiflett Title: District Drilling Manager Date: 09/20/94

(This space for State use only)

(12/92) (See Instructions on Reverse Side)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-3B4 (P&A)
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH
WI: 57.89614% ANR AFE: 00231
TD: 12,850'
5½" LINER @ 12,362'-12,847'
CWC(M$): 65.5

6/7-15/94 Well P&A'd, 6/15/94.
MIRU Wisco on 6/7/94. POH & LD rods. ND WH, NU BOP. RIH w/2⅞" tbg, tag PBTD (CIBP) @ 6803'. Roll hole w/400 bbl 200° wtr. POH. RIH w/8⅝" mill to 3400', could not work past, POH. RIH w/8¼" mill to 6800', POH. RIH & set CICR @ 6727'. Est inj rate @ 2 BPM, 500#. Sqz'd 300 sx Class "G" (15.6 ppg, 1.15 CF/sx) below RET. Spot 100 sx Class "G" (15.6 ppg, 1.15 CF/sx) from 6457-6727'. Spot 900 sx Class "G" w/3% $CaCl_2$ (1.15 CF/sx) from 3300-5120'. Tag top of plug @ 3300'. POH to 1158', spot 50 sx Class "G" w/3% $CaCl_2$ @ 1023-1158'. POH to 279'. Spot 165 sx Class "G" w/3% $CaCl_2$ (1.15 CF/sx) @ sfc to 279' in the 9⅝" csg. Cut of csg, weld on plate. Spot 270 sx Class "G" w/3% $CaCl_2$ down 9⅝" - 13⅜" annulus. Install DHM. P&A witnessed by Dennis Ingram, State of Utah. Well P&A'd 6/15/94. Final report.

SHIPPED TO: A.N.R. Production Company

ADDRESS: P.O. Box 749

CITY & STATE: Denver, CO. 80201-0749

CARE OF: Marc Ernest

Brotherson (LEASE) 1-3B4 (WELL NO.) Altamont (FIELD) 11 (RIG)

INVOICE TO: Same As above

ADDRESS:

CITY & STATE:

WISCO
P.O. BOX 2477
WILLISTON, N. DAK. 58802-2477

CUSTOMER ORDER NO.	ORDERED BY	DATE
CUSTOMER REQUISITION NO.	**TAKEN BY**	**FILLED BY**

ORDERED VIA:

SHIPPED VIA:

SPECIAL INSTRUCTIONS:

DATE	DESCRIPTION	UNITS	UNIT PRICE	AMOUNT
June-07-94	Permanently abandon well per daily report Bid price:			23,900.00
	Extra cement is required by O.G.M. 490 sx @ 12.00 per sx			5880.00
	8 1/4" mill required when 8 5/8" called for in procedure would not go to required depth.			1063.00
	Extra rig time required to round trip mill and wait on orders from Coastal and pump cement then wait to tag. 17 hours @ 138.00 per hr			2346.00
	Extra water to mix and displace cement (490 sx)			N.C.
4475-18				
			CITY COUNTY TAX	
			STATE TAX	

SERVICES PERFORMED BY: H H

WISCO REPRESENTATIVE: Jake Ford

Thank You Mr.

APPROVED BY

COMPANY NAME

TOTAL 33,189.00

DT. NO. № 7368

INVOICE NO. 9889 DATE 6-30-94

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: Patented

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name: N/A

8. Well Name and Number: Brotherson #1-3B4

9. API Well Number: 43-013-30048

10. Field and Pool, or Wildcat: Altamont

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 [X] GAS [ ] OTHER:

2. Name of Operator: ANR Production Company

3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well
Footages: 1468' FNL & 1503' FEL County: Duchesne
QQ, Sec., T., R., M.: SW/NE Section 3-T2S-R4W State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- [ ] Abandonment
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] Multiple Completion
- [ ] Other
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Recompletion
- [ ] Shoot or Acidize
- [ ] Vent or Flare
- [ ] Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- [X] Abandonment *
- [ ] Casing Repair
- [ ] Change of Plans
- [ ] Conversion to Injection
- [ ] Fracture Treat
- [ ] Other
- [ ] New Construction
- [ ] Pull or Alter Casing
- [ ] Shoot or Acidize
- [ ] 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 AND LOG form.

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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.)

Final Abandonment Notice

Operator has restored wellsite location to landowner's satisfaction and is being released per the attached Release Agreement.

13. Name & Signature: Sheila Bremer Title Environmental & Safety Analyst Date 09/22/98

(This space for State use only)

(12/92) (See Instructions on Reverse Side)

RELEASE AGREEMENT

This Release Agreement is made and entered as of July 21, 1998 by **Lake Fork Ranch, Inc.**, of P. O. Box 48, Mountain Home, Utah 84051 , hercinafter referred to as Owner.

WITNESSETH

WHEREAS, Coastal Oil & Gas Corporation of P.O. Box 749, Denver, CO 80201 ("Coastal") is the operator of record of the following well, to wit:

Field	:	Altamont
API Well #	:	43-013-30048
Well Name	:	Brotherson #1-3B4
Location	:	SW¼NE¼ Section 3-T2S-R4W, USM
County	:	Duchesne, Utah

(the "well") and;

WHEREAS, on or about June 15, 1994, the well was plugged and abandoned in accordance with the rules and regulations of the State of Utah, Division of Oil, Gas And Mining; and surface equipment belonging to Coastal has been removed from the well location, and;

WHEREAS, the Owner desires to relieve and release Coastal from any obligation of restoring the wellsite location as nearly as possible to its original contours and condition in order that Owner may integrate the wellsite location into its ranch operations; and

WHEREAS, Coastal and Owner desire to resolve all restoration issues.

NOW, THEREFORE, for Ten Dollars ($10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Owner does hereby release and forever discharge Coastal, its agents, contractors, officers and employees, from any and all claims, demands and causes of action of whatsoever kind or nature, whether in contract or tort, including any claims, demands and causes of action which may hereafter develop as well as those now apparent which Owner now may have or may hereafter have arising out of or related to the events described herein and all activities, conditions, events and occurrences incident or directly related thereto. Owner does specifically release Coastal of any obligation to recontour, reshape, reconstruct, or repair the lands which comprise the wellsite for the well to their former shape or contour, including but not limited to any obligation to prevent erosion. Owner agrees to assume the obligation to recontour, reshape, reconstruct, or repair the lands which comprise the wellsite for the well to their former shape or contour, including but not limited to any obligation to prevent erosion. Owner accepts the lands which comprise the wellsite in its present condition "as is", with all defects of whatsoever nature; and Coastal makes no representations or warranties either express or implied as to their suitability or fitness of use.

Executed as to the date first written above.

Lake Fork Ranch, Inc.

Attest: Beth C. Brotherson

Beth C. Brotherson, Secretary

By: Brent C. Brotherson

Brent C. Brotherson, President

ACKNOWLEDGMENT

STATE OF UTAH §
§
COUNTY OF DUCHESNE §

NOTARY PUBLIC
SHEILA M. FIELDSTED
150 East Main
Altamont, UT 84001
COMMISSION EXPIRES
FEB. 6, 2002
STATE OF UTAH

The foregoing instrument was acknowledged before me by Brent C. Brotherson, President of Lake Fork Ranch, Inc., a Utah Corporation, this 31st day of August, 1998.

Witness my hand and official seal.

Sheila Fieldsted

Notary Public

My Commission expires: 2-6-2002

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number: Patented

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name: N/A

SUNDRY NOTICES AND REPORTS ON WELLS

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8. Well Name and Number: Brotherson #1-3B4

2. Name of Operator: ANR Production Company

9. API Well Number: 43-013-30048

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: 1468' FNL & 1503' FEL County: Duchesne

QQ, Sec., T., R., M.: SW/NE Section 3-T2S-R4W State: Utah

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[ ] Change of Plans	[ ] Recompletion	[ ] Change of Plans	[ ] Shoot or Acidize
[ ] Conversion to Injection	[ ] Shoot or Acidize	[ ] Conversion to Injection	[ ] Vent or Flare
[ ] Fracture Treat	[ ] Vent or Flare	[ ] Fracture Treat	[ ] Water Shut-Off
[ ] Multiple Completion	[ ] Water Shut-Off	[ ] Other	
[ ] Other			

Approximate date work will start

Date of work completion

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Final Abandonment Notice

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RECEIVED
SEP 28 1998
DIV. OF OIL, GAS & MINING

13.

Name & Signature: Sheila Bremer Title Environmental & Safety Analyst Date 09/22/98

(This space for State use only)

(12/92) (See Instructions on Reverse Side)

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Well Name	:	Brotherson #1-3B4
Location	:	SW¼NE¼ Section 3-T2S-R4W, USM
County	:	Duchesne, Utah

(the "well") and;

WHEREAS, on or about June 15, 1994, the well was plugged and abandoned in accordance with the rules and regulations of the State of Utah, Division of Oil, Gas And Mining; and surface equipment belonging to Coastal has been removed from the well location, and;

WHEREAS, the Owner desires to relieve and release Coastal from any obligation of restoring the wellsite location as nearly as possible to its original contours and condition in order that Owner may integrate the wellsite location into its ranch operations; and

WHEREAS, Coastal and Owner desire to resolve all restoration issues.

NOW, THEREFORE, for Ten Dollars ($10.00) and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Owner does hereby release and forever discharge Coastal, its agents, contractors, officers and employees, from any and all claims, demands and causes of action of whatsoever kind or nature, whether in contract or tort, including any claims, demands and causes of action which may hereafter develop as well as those now apparent which Owner now may have or may hereafter have arising out of or related to the events described herein and all activities, conditions, events and occurrences incident or directly related thereto. Owner does specifically release Coastal of any obligation to recontour, reshape, reconstruct, or repair the lands which comprise the wellsite for the well to their former shape or contour, including but not limited to any obligation to prevent erosion. Owner agrees to assume the obligation to recontour, reshape, reconstruct, or repair the lands which comprise the wellsite for the well to their former shape or contour, including but not limited to any obligation to prevent erosion. Owner accepts the lands which comprise the wellsite in its present condition "as is", with all defects of whatsoever nature; and Coastal makes no representations or warranties either express or implied as to their suitability or fitness of use.

Executed as to the date first written above.

Lake Fork Ranch, Inc.

Attest: Beth C. Brotherson

Beth C. Brotherson, Secretary

By: Brent C. Brotherson

Brent C. Brotherson, President

ACKNOWLEDGMENT

STATE OF UTAH §
§
COUNTY OF DUCHESNE §

NOTARY PUBLIC
SHEILA M. FIELDSTED
150 East Main
Altamont, UT 84001
COMMISSION EXPIRES
FEB. 6, 2002
STATE OF UTAH

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Witness my hand and official seal.

Sheila Fieldsted

Notary Public

My Commission expires: 2-6-2002