FILE NOTATIONS

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

Checked by Chief .....
Approval Letter 10-3-72
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 6-12-73

Location Inspected .....

Bond released
State or Fee Land .....

W..... WW..... TA.....
GW..... OS..... PA.....

LOGS FILED

Driller's Log..... ✓
Electric Logs (No.) ..... ✓

E..... I..... Dual I Lat..... GR-N..... Micro.....
MIC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

2. Name of Operator: Shell Oil Company (Rocky Mountain Div. Production)
Chevron 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: 1601' FNL and 1229' FEL Sec 15 NW SE NE
At proposed prod. zone

5. Lease Designation and Serial No.: Patented

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Farm or Lease Name: Brotherson

9. Well No.: 1-15B4

10. Field and Pool, or Wildcat: Altamont

11. Sec., T., R., M., or Blk. and Survey or Area: SE/4 NE/4 Section 15-T 2S-R 4W

14. Distance in miles and direction from nearest town or post office*: 4 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): 1601' from property and lease line

16. No. of acres in lease: 1240

17. No. of acres assigned to this well: 640

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: 5800'

19. Proposed depth: 13,280'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 6253 GL (Ungraded)

22. Approx. date work will start*: Spudded this date 9/29

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 certified survey plat.

39-3/39-4
Ok

Verbal approval to drill obtained from Sheree De Rose 9-15-72

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

24.

Signed K. R. Gruden Title Division Operations Engineer Date Sept. 29, 1972

(This space for Federal or State office use)

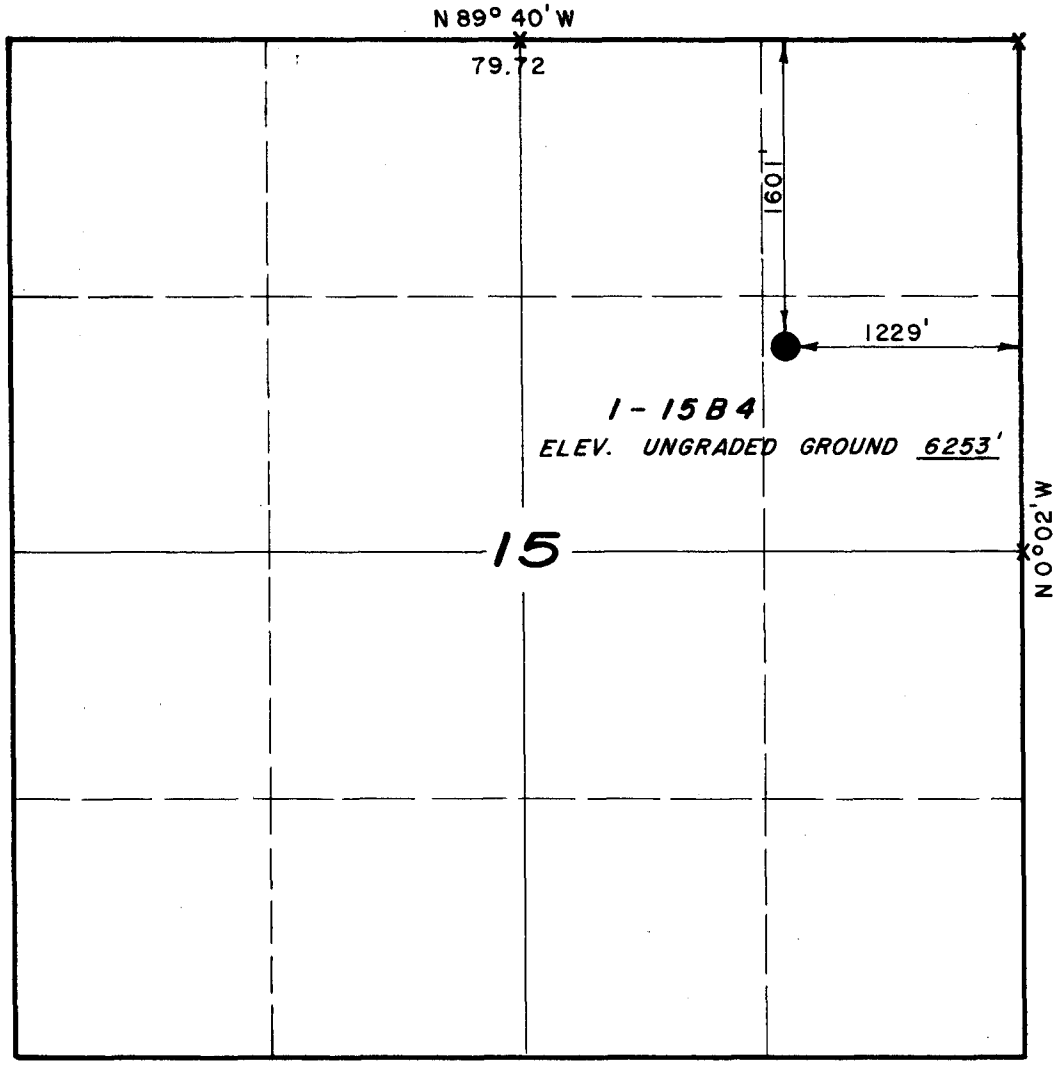
Permit No. 43-013-30159 Approval Date

Approved by Title Date

Conditions of approval, if any:

*See Instructions On Reverse Side

T2S, R4W, U.S.B.&M.



X = Corners Found & Used.

PROJECT

SHELL OIL COMPANY

Well location, *1-15B4*, located as shown in the SE 1/4 NE1/4, Section 15, T2S, R4W, U.S.B. & M., Duchesne County, Utah.

CERTIFICATE

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

REGISTERED LAND SURVEYOR
REGISTRATION Nº 3137
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 14 September 1972
PARTY G. S. & T. L.	REFERENCES GLO Plat
WEATHER Warm	FILE Shell Oil Company

RM-51 (8-71)

DRILLING WELL PROGNOSIS

WELL NAME Brotherson 1-15B4
TYPE WELL Development
FIELD/AREA Altamont, Utah
Rig: Brinkerhoff 57

APPROX. LOCATION (SUBJECT TO SURVEY) Section 15-T2S-R4W 1601' FNL, 1229' FEL

EST. G.L. ELEVATION 6,250 PROJECTED TD 13,280 OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 ½"	13 3/8"			300'	**SAMPLES:**
				50'± thru boulders	30' - surface to 9,000' 10' - 9,000' to TD
		Sonic/GR thru 9 5/8" casing			**CORES:**
				TGR 1	None
				4,780 (+1,500)	**DST'S:**
12 ¼"	9 5/8"			6,400'±	None
				1,600' below TGR 1	**DEVIATION CONTROL** 1°/1000' dogleg severity to be less than 1½°/100' interval. See worksheet for details.
		Drilling Function Monitor	1°/1,000'		
		Sonic/GR/DIL		TGR 3	**CEMENT**
		FDC/CNL 9050'		9,080 (-2800)	See casing and cementing prognosis.
8 3/4	7" to sfc				**MUD**
					0-9,700'± water
				Top Basal Green River Sands	9,700'-TD
				10,880 (-4,600)	weighted gel-chemical Follow expected pressure gradient curve.
				Top Wasatch	
				11,480' (-5,200)	
6 1/8	5" Liner	Sonic/GR/DIL		Top Wasatch Lake	
		FDC/CNL		12,080 (5,800)	
				TD 13,280 (-7,000)	

ORIGINATOR: D. M. Newell DATE 9/27/72

ENGINEERING APPROVAL:

PETROLEUM: D. W. Solmonson

OPERATIONS: K. R. Jordan

OPERATIONS APPROVAL:

DIV. DRILLING SUPT.

October 3, 1972

Shell Oil Company
1700 Broadway
Denver, Colorado 80202

Re: Well No. Shell et al
Brotherson #1-15B4
Sec. 15, T. 2 S, R. 4 W, USM
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 139-3/139-4, dated June 24, 1971.

It should be noted that the following mud system monitoring equipment must be installed (with derrick floor indicators) and used throughout the period of drilling after setting and cementing the intermediate string or upon reaching a depth at which high pressures might occur:

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

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

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

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
OFFICE: 328-5771

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

The API number assigned to this well is 43-013-30159.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

Form OGCC-3

NOV 19 1973

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

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: Shell Oil Company (Rocky Mountain 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*)*
At surface: 1601' FNL and 1229' FEL Sec 15
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: Brotherson

9. WELL NO.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE/4 NE/4 Section 15-T 2S-R 4W

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-013-30159	10-2-72	Duchesne	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
9-28-72	12-29-72	6-12-73	6250 GL, 6272 GL	24'

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
13,291	13,260		→	Total	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Wasatch and Flagstaff perfs 10,936-13,244

25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL, BHCS-GR, CNL-FDC/GR, CBL, VDL, PDC

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	68#	312'	17½"	360 CF	0
9 5/8"	40#	6,430'	12¼"	900 CF	0
7"	26#	10,920'	8 3/4"	500 CF	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5"	10,789	13,291	650 CF	

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*)
6-12-73	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-27-73	24	10/64"		824	601	7	729

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
3900	0		824	601	7	43.4°

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Used for fuel on lse, sold to Mtn Fuel, and remainder flared

TEST WITNESSED BY:

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

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

SIGNED [signature] For: K. R. Jordan TITLE Division Operations Engr. DATE Nov. 12, 1973

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Prep to perf. RD&MO compl rig. RU Archer-Reed and knocked out expendable plug @ 10,796'. RD Archer-Reed and RU Schl. JAN 30 1973
Correction to 1/29 report: Set-down wt 1000# instead of 10,000# as previously reported.

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Perforating. MI&RU Schl. Shot 1 hole each at the following depths using 2" steel tube carrier gun w/Hyperjet charges (depths refer to CNL-GR dated 12/28/72): 10,936, 10,953, 11,004, 11,052, 11,090, 11,102, 11,142, 11,166, 11,187, 11,212, 11,225, 11,239, 11,286, 11,316, 11,328, 11,385, 11,441, 11,468, 11,543, 11,598, 11,611, 11,629, 11,655, 11,670, 11,723, 11,879, 11,884, 11,908, 11,934, 11,965, 12,089, 12,114. Press from 1100-3490 psi. Press incr of 450 psi @ 11,052 and 200 psi incr @ 11,142. JAN 31 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Prep to acdz. SITP 3300 psi. Finished perf'g 1 hole at each of the following depths: 12,137, 12,160, 12,205, 12,241, 12,252, 12,321, 12,407, 12,432, 12,447, 12,483, 12,526, 12,543, 12,548, 12,578, 12,606, 12,611, 12,649, 12,687, 12,704, 12,715, 12,726, 12,764, 12,867, 13,026, 13,061, 13,122, 13,227, 13,235, and 13,244. Press from 3650 to 3460 psi on first 16 shots and from 3450 to 3600 psi on last 13 shots. SITP 1 hr after perf'g 3600 psi. FEB 1 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Prep to flow well to pit. SITP 3900 psi. MI&RU B-J. Pmpd 40,000 gal 15% HCl containing 20# G-5, 3 gal C-15, 3# G-7 and 3 gal J-22 per 1000 gal. Evenly distributed seventy-three 7/8" ball sealers w/1.4 gravity throughout acid. Flushed w/ 4500 gal FW containing 165# NaCl and 20# G-5/1000 gal. All fluid heated to 80°. Held 3500 psi on csg during acid job. Balled out four times and bled back 5 bbls to drop balls. Finished flush. Had good ball action. ISIP 4900 psi, decr to 4800 psi in 5 min, to 4500 psi in 10 min, to 4400 psi in 15 min and remaining @ 4400 psi in 20 min. Max press 9800 psi, min 4000 psi, avg 7400 psi. Avg rate 8 B/M, max 9.5 B/M, min 2 B/M. FEB 2 1973

OIL WELL — ALTAMONT

SHELL OIL COMPANY — LEASE BROTHERSON — WELL NO. 1-15B4

DIVISION ROCKY MOUNTAIN — ELEV 6272 KB

FROM: 9-29-72 - 6-28-73 — COUNTY DUCHESNE — STATE UTAH

UTAH

ALTAMONT

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test

"FR" 140/89/1/140. Drilling.
Located 1601' FNL and 1229' FEL (SE/4 NE/4) Section 15-T2S-R4W, Duchesne County, Utah.
Elev: 6253 GL (ungraded)
SEP 29 1972
13,280' Wasatch Test
Shell Working Interest - 100%
Drilling Contractor: Brinkerhoff Drilling Co.
This is a routine development test in the Altamont field.
Spudded 17½" hole @ 7:30 PM, 9/28/72.
Mud: 9.9 x 45

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

9/30: 312/89/2/172. Flanging up sfc hd. Dev: 0° @ 162' and 0° 15' @ 300'. Circ 1 hr prior to running csg. Ran 312' of 13-3/8" 68# K-55, ST&C csg to 312'. Cmtd w/ 360 cu ft of Class "G" treated w/3% $CaCl_2$. Had good returns. Did not bump plug.
Mud: 9.8 x 52
10/1: 612/89/3/300. Drilling. WOC 10' hrs. Welded on Bradenhd. Tripping in w/BHA, tagging cmt @ 265'. Drld cmt and shoe. Tested Hydril, lines, valves and csg to 1000 psi.
Mud: wtr
10/2: 1390/89/4/778. Drilling. Dev: 1° @ 600', 1/4° @ 910 and 1163'. Tripped for new bit @ 1180. Reamed 90' to btm.
OCT 2 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

2035/89/5/645. Drilling. Dev: 1° @ 1786'. Tripped for new bit @ 1786. Washed 70' to btm.
OCT 3 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

2680/89/6/645. Fishing. Dev: 1-3/4° @ 2441'. Tripped for bit @ 2441. Washed 70' to btm. Twisted DP in two. Circ visbestos pill and pulled out of hole. Top of fish @ 2206.
OCT 4 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

2958/89/7/278. Drilling. Dev: 1° 30' @ 2930. Tripped for new bit @ 2930. Fished 9-3/4 hrs and tripped out w/fish. Reamed and circ to btm.
Mud: Wtr OCT 5 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

3395/89/8/437. Drilling.
Mud: Wtr OCT 6 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

10/7: 3795/89/9/400. Drilling. Dev: 2° @ 3456'.
Mud: Wtr
10/8: 4040/89/10/245. Drilling. Dev: 4° 15' @ 3843 and 3° 15' @ 4010. Tripped for bit @ 3843. Reamed 180'.
Mud: Wtr
10/9: 4400/89/11/360. Drilling. OCT 9 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

4745/89/12/345. Drilling. Dev: 2° @ 4502' OCT 10 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

5050/89/13/305. Tripping for new bit. Dev: 1° @ 5012'.
Mud: Wtr OCT 11 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

5305/89/14/255. Drilling. Reamed 225'. Changed bit @ 5050. OCT 12 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

5606/89/15/301. Drilling. Dev: 0° 15' @ 5532'.
Mud: Wtr OCT 13 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

10/14: 5860/89/16/254. Drilling. Reamed 1 hr w/high torque.
10/15: 6160/89/17/300. Drilling.
10/16: 6420/89/18/260. Tripping for new bit. Bit plugged 18 stds off btm. Tight hole @ 4737 and 4176. Laid down two bad DC's.
Mud: Wtr

OCT 1 6 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
13-3/8" csg @ 312'

6430/89/19/10. Repairing chain. Made SLC: 6420 - 6430. CO bridges from 3506 to TD and mudded up. Circ 2 hrs.
Mud: 8.7 x 40 x 21

OCT 1 7 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

6430/89/20/0. WOC. Washed 2 jts to btm and circ and cond hole for csg. Laid down DC's and RU csg tools. Ran 153 jts (6459') 9-5/8" K-55, ST&C csg, 2 jts thread locked, to 6430' w/FC @ 6359'. Circ w/rig pump and cmtd w/700 cu ft 1:1 Diamix "A" w/4% gel (slurry 12.5 ppg), followed by 200 cu ft Class "G" w/retarder (slurry 15.9 ppg). Bled back 1¼ bbls. Did not bump plug. Displaced w/wtr.

OCT 1 8 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

6430/89/21/0. Testing BOP's. Installed AP spool and tested, OK. Installed BOP's and started testing same, after repairing leaks. Dev: 1-3/4° @ 6430' (S85°03'W).

OCT 1 9 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

6430/89/22/0. Tripping in hole. RU B-J and attempted to break down 13-3/8 x 9-5/8 annulus. Had communications to 9-5/8" AP spool. Nipped down BOP's and picked up check slips and x-bushing. Nipped up BOP's. Tested csg to 1500 psi, OK. Tested x-bushing to 2300 psi, OK. Tested all BOP lines and valves. Pmpd 300 sx Class "G" w/3% $CaCl_2$ down annulus w/100 psi press.

OCT 2 0 1972

Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10/21: 6693/89/23/263. Fishing. Tripped in hole w/ SLM. Tagged cmt @ 6322'. Tested csg to 2000 psi. Drld cmt, FC and shoe. Twisted off pin @ 601'. Tripped in w/fishing tools and worked fish loose.
Mud: Wtr
10/22: 6923/89/24/230. Drilling. Circ 3/4 hrs. Tripped out and laid down fish. Changed kelly cock, laid down 16 jts crooked DP. Ran in w/8 jts DP. Reamed 120' to btm.
Mud: Wtr

OCT 2 3 1972

10/23: 7450/89/25/527. Drilling.
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

7845/89/26/395. Drilling. Tripped for bit @ 7640. Washed 50' to btm. OCT 2 4 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

8350/89/27/505. Drilling OCT 2 5 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

8950/89/28/600. Drilling. OCT 2 6 1972
Mud: Wtr

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

9425/89/29/475. Drilling.
Mud: Wtr OCT 2 7 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10/28: 9738/89/30/313. Drilling. Tripped for new bit @ 9467. Washed 115' to btm.
Mud: Wtr
10/29: 10,088/89/31/350. Drilling. Losing 2-3 bbls mud/hr at report time.
Mud: (gradient .468) 9.0 x 39 x 20.0
10/30: 10,226/89/32/138. Tripping for new bit. Background gas: 50-60 units. Max connection gas: 350 units.
Mud: 9.7 x 41 x 13 (2.5 lb/bbl LCM) OCT 3 0 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10,266/89/33/40. Drilling. Tripped in w/new bit, breaking circ.
Mud: (gradient .514) 9.7 x 40 x 12 (4% LCM) OCT 3 1 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10,386/89/34/120. Drilling. Tripped for new bit @ 10,291. Dev: 2° @ 10,226. NOV 1 1972
Mud: (gradient .514) 9.9 x 40 x 13 (5.3% LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10,562/89/35/176. Drilling. Circ and cond mud. Background gas: 125 units. Connection gas: 220 units. No mud loss. NOV 2 1972
Mud: (gradient .566) 10.9 x 45 x 10 (4.7% LCM) (1% oil)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9-5/8" csg @ 6430'

10,660/89/36/98. Drilling. No mud loss. Background gas: 125 units. Connection gas: 200 units. NOV 3 1972
Mud: (gradient .571) 11.0 x 43 x 9.0 (+ .84% LCM) (1% oil)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9 5/8" csg at 6430'

11/4: 10,766/89/37/106 Drilling.
Background gas - 80 units, connection - 150 units.
Mud: (.608) 11.7 x 47 x 9 (LCM 4.5%) (Oil Trc)
11/5: 10,885/89/38/129 Drilling. Background gas - 40-100 units, connection - 130 units.
Mud: (.613) 11.8 x 47 x 9 (LCM 5 3/4%) (Oil Trc)
11/6: 10,925/89/39/30 Logging. Dev: 2°45' at 10,925.
Max gas - 150 units, background - 80 units.
Mud: (.613) 11.8 x 47 x 9 (LCM 5%) (Oil Trc) NOV 6 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
9 5/8" csg at 6430'

10,925/89/40/0 Circ and cond mud to run csg.
Ran logs as follows: DIL, BHCS w/GR, Comp Neutron Log, FDC/GR. Max gas units - 650, background - 80 units.
Mud: 11.9 x 47 x 8.5 (LCM 4.85%) (Oil Trc) NOV 7 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

10,925/89/41/0 WOC.
Laid down collars. Changed rams, pull bit, and prep to run 7" csg. Ran and cem 10,898' 26# LT&C S-95 Republic 7" csg at 10,920' w/311 cu ft BJ lt wt cmt treated w/.5% D-31 (12.4# slurry) followed by 189 cu ft Class "G" treated w/1% D-31, .1% R-5 (15.9# Slurry) Lost returns. Lost complete circ after displacing 70 bbls mud. While cmtg, max press 700 psi, final 400. Float shoe on btm, float collar at 10,798.
Mud: (.618) 11.9 x 47 x 8.5 NOV 8 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57

10,925/89/42/0 Laying down DP. Set slips and nippled up.
Mud: (.618) 11.9 x 47 x 8.5 NOV 13 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

10,925/89/43/0 Testing BOPE and lines. Laid down $4\frac{1}{2}$" DP. Ran CBL. Changed BOP rams. CBL indicated cmt stringers from 9250-9650, good cmt from 9650.
Mud: 11.9 x 40 x 8.5 NOV 1 4 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

11/11: 10,925/89/44/0 Drilling out cmt. Tested BOPE, valves and lines. Picked up DC's, collars, and $3\frac{1}{2}$" DP. Circ. Tested csg to 3,000 psi. CO cmt from 10,785.
Mud: (.618) 11.9 x 45 x 9 (LCM 4.5#/bbl) (Oil Trc)
11/12: 10,980/89/45/55 Drilling. Drld float collar, cmt, and float shoe. Changed drlg assmbly. Background gas - 25 units. NOV 1 3 1972
Mud: (.629) 12.1 x 48 x 9 (LCM 4.3#/bbl) (Oil Trc)
11/13: 11,048/89/46/62 Circ to pull bit.
Mud: (.639) 12.3 x 50 x 9 (LCM 4.5#/bbl) (Oil Trc)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

11,105/89/47/57 Drilling. Repacked swivel. Background gas - 20 units, 400 units from being down $2\frac{1}{2}$ hrs. NOV 1 4 1972
Mud: (.639) 12.3 x 46 x 9 (LCM 5.58#/bbl) (Oil Trc)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

11,183/89/48/78 Drilling. Background gas - 20 units. NOV 1 5 1972
Mud: (.639) 12.3 x 46 x 9 (LCM 5.58#/bbl) (Oil Trc)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

11,263/89/49/80. Drilling. Background gas: 15 units. Connection gas: 120 units.
Mud: (gradient .644) 12.4 x 47 x 8.5 (6.56% LCM) NOV 1 6 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

11,352/89/50/89. Drilling. Background gas: 10 units. Connection gas: 25 units. NOV 1 7 1972
Mud: (gradient .650) 12.5 x 47 x 8.7 (6.7% LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

11/18: 11,435/89/51/83. Circ for trip. Background gas: 25 units. Connection gas: 140 units.
Mud: (gradient .655) 12.6 x 47 x 8.7 (6.5 #/bbl LCM)
11/19: 11,455/89/52/20. Drilling. Tripped for new bit @ 11,435. Replaced 49 jts DP and staged in hole slowly. Background gas: 75 units. Trip gas: 320 units.
Mud: (gradient .665) 12.8 x 55 x 9.0 (7.2 #/bbl LCM)
11/20: 11,556/89/53/101. Drilling. Background gas: 70 units. Max gas: 3000+ units.
NOV 2 0 1972
Mud: (gradient .696) 13.4 x 50 x 9 (7 #/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

11,651/89/54/95. Circ prior to tripping for new bit.
Mud: (gradient .717) 13.8 x 43 x 8.3 (6.7#/bbl LCM)
NOV 2 1 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

11,724/89/55/73. Drilling. Tripped for new bit @ 11,651. Background gas: 55 units. Connection gas: 65 units.
NOV 2 2 1972
Mud: (gradient .715) 13.7+ x 46 x 8 (5.3#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' wasatch Test
7" csg @ 10,920'

11/23: 11,862/89/56/138. Drilling. Background gas: 40 units. Connection gas: 50-60 units. Max: 150 units.
Mud: (gradient .746) 14.3 x 45 x 8 (5.2#/bbl LCM)
11/24: 11,886/89/57/24. Circ prior to pulling bit. Lost complete circ @ 11,882 while drlg. Pmpd LCM pill and circ 7-3/4 hrs. Lost 60 bbls mud. Background gas: 50 units. Max gas after losing circ: 3000 units.
Mud: (gradient .743) 14.3 x 46 x 8.0 (5.2#/bbl LCM)
11/25: 11,901/89/58/15. Drilling. Pumped plug and tripped out slowly. Tested BOP stack and lines. Tripped back in hole, breaking circ 5 times. CO 2' of fill. Torqued while drlg w/high press drop. Lost 2 bbls/hr. Hole took 18 bbls more mud than calc. Lost approx 100 bbls mud last 24 hrs. Background gas: 25 units. Max gas: 50 units.
Mud: (gradient .748) 14.4 x 47 x 7.9 (5.5#/bbl LCM)
11/26: 11,980/89/59/79. Drilling. Tripped for bit @ 11,909. Background gas: 25 units. Max gas: 50 units.
Mud: (gradient .754) 14.5 x 47 x 7 (6.2#/bbl LCM)
11/27: 12,105/89/60/125. Drilling. Lost approx 50 bbls mud. Background gas: 40 units. Max gas: 130 units on connection.
NOV 2 7 1972
Mud: (gradient .764) 14.7 x 51 x 7 (7.2#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,218/89/61/113. Drilling. Had drlg break @ 12,194-208. Lost approx 100 bbls mud. Background gas: 25 units. Connection gas: 55 units. Max gas @ 6:20 AM: 2400 units w/mud cutting from 14.7 to 13.1 ppg.
Mud: (gradient .764) 14.7 x 46 x 5 (6.2#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,297/89/62/79. Drilling. Circ gas - raised mud wt to 14.9. Background gas: 25 units. Connection gas: 200-160 units. Max gas: 3100 units. Lost 50 bbls mud.
Mud: (gradient .774) 14.9 x 48 x 5.2 (7.8#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,347/89/63/50. Circ gas. Circ gas show @ 12,310, w/15.1 ppg mud cutting to 12.9 ppg. Raised mud wt to 15.3 w/mud cutting to 15 ppg. Lost 250 bbls mud. Background gas: 1500 units. Connection gas: 2500 units. Max gas: 4600 units.
Mud: (gradient .791) 15.3 x 50 x 4.4 (10#/bbl LCM) (2% oil)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

12,350/89/64/3 Mixing LCM pill. Cond mud and circ gas. Mixed and pumped 2 LCM pills. Pulled to 7" csg shoe. Lost circ 6 PM. Circ 15.5# mud. 70 strokes. 1300 units background gas. Mud cut from 15.5-14.9#. Max gas - 3000 units. 15.3# mud cut to 12.5# on returns. Lost 600 bbls mud last 24 hrs.
Mud: (.801) 15.5 x 52 (LCM 15%)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12/2: 12;350/89/65/0. Trying to regain circ. Mixed and pmpd LCM pills w/bit @ shoe of 7" csg. WO pills to heal lost circ. Pulled 10 stds and attempted to regain circ. Reran 10 stds.
Mud: (gradient .801) 15.5 x 48
12/3: 12,350/89/66/0. Circ LCM pills. WO LCM pills to cure 6 hrs. Circ and ran 4 stds. Mixed and pmpd 2 LCM pills. Hole tight from 11,280-320. Losing circ - pmpg in pill. Lost 680 bbls mud. Background gas after each stage: 200 units. Btms up gas while staging in 2 stds at a time: 2400 units. Max gas: 4500 units.
Mud: (gradient .800) 15.4 x 50 x 7 (13#/bbl LCM) (1% oil)
12/4: 12,350/89/67/0. WO LCM pill. Circ and reamed tight hole to 11,461, w/full returns while circ and partial returns while reaming. Lost complete returns while circ @ 11,461 w/mud cutting from 15.4 to 13.9 ppg. w/3500-4000 units gas. Hole tight from 11,327-461. Mixed and sptd LCM pill. Max gas: 7500 units.
Mud: (gradient .806) 15.5 x 48 (14#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/68/0. Cond mud. WO LCM pill 5 hrs and attempted to circ - no returns. Built mud vol. Sptd LCM pill w/no returns. Built mud vol and WO pill. Tried to circ - got returns w/mud cutting from 15.5 to 14.4 ppg w/1800 units gas and much paraffin. Circ thru gas buster - flaring gas - lost returns. Started cond mud.
Mud: 15.5 x 48 (20% LCM) DEC 5 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/69/0. Tripping. Attempted to regain circ 4¼ hrs. Displaced mud in annulus into fm. WO hole to heal 2 hrs. Laid down stabilizer. Attempted to regain circ 40 stds off btm. Lost 600 bbls mud.
Mud: (gradient .806) 15.5 x 48 DEC 7 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/70/0. Tripping. Attempted to regain circ. WO hole to heal. With pipe and DC's hung @ 10,827, mixed and pmpd 200 sx Class "C" Neat cmt (15.9 ppg slurry). Displaced without circ w/77 bbls mud. CIP @ 3:10 PM. Started tripping in, breaking circ.
Mud: 15.5 x 48 DEC 7 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

12,350/89/71/0 WOC to cure. Broke circ. CO stringers. Cond mud. Drld out cmt from 10,887-11,024. Lost circ at 11,024. With bit, tested DV collar and pipe hung at 10,827. Mixed and pumped 100 sx Class "G" Neat. 15.9# slurry. Displaced without circ w/81 bbls mud. CIP at 3:10 AM. Lost 150 bbls mud last 24 hrs. DEC 8 1972
Mud: 15.5 x 48

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12/9: 12,350/89/72/0. WO cementers. Staged and circ 14 stds in hole, CO from 10,827-10,989. Pulled 10 stds and circ and cond mud. Staged back in, hitting tight spot @ 10,920. Worked thru tight spot and CO to top of cmt @ 10,989. DO cmt from 10,989-11,010. Pulled 6 stds, 2 singles and attempted to regain circ - had some returns. Lost 200 bbls mud last 24 hrs.
Mud: 15.5 x 50
12/10: 12,350/89/73/0. Pumping LCM pill. RU cmtrs and w/6-1/8" bit, 1 std DC's and DP hung @ 10,734, mixed and pmpd 100 sx Class "G". Displaced w/80 bbls mud. CIP @ 12:30 AM. WOC and cond mud w/bit @ 9332. Staged in from 9332-10,910. DO cmt from 10,910-11,058 - started losing circ. Started pmpd LCM pill w/bit @ 11,058. Max of 300 units gas.
Mud: 15.5 x 50

(Continued)

(Continued)
12/11: 12,350/89/74/0. CO cmt. Pmpd and displaced LCM pill @ 11,058. Pulled 10 stds and WO hole to heal. Staged back to cmt plug @ 11,058. DO cmt to 11,100, losing mud. Mixed and sptd 70-bbl LCM pill on btm. Pulled 2 stds and WO hole to heal. Broke circ @ shoe and 90' below shoe and CO cmt to 11,121. Lost 360 bbls mud.
Mud: (gradient .806) 15.5 x 48 x 6 (11.2#/bbl LCM) DEC 1 1 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/75/0. Rig SD, installing gas buster shed and improving heating system. SD rig @ noon. Lost 50 bbls mud prior to SD. DEC 1 2 1972
Mud: (gradient .806) 15.5 x 48 x 6 (11.2#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/76/0. Rig SD. Bit inside 7" csg @ 10,838. Pmpg through bit @ 2 hr intervals.
Mud: (gradient .806) 15.5 x 51 DEC 1 3 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,350/89/77/0. Rig SD.
Mud: (gradient .806) 15.5 x 53 DEC 1 4 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg at 10,920'

12,350/89/78/0 Cond mud. Circ'd and broke circ 8:30 AM. Circ and cond mud at 10,838.
Mud: 15.2 x 69 DEC 1 5 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12/16: 12,350/89/79/0. Circ @ 11,618. Circ and cond mud 4½ hrs. Staged in and circ out gas as follows:

Depth	Units gas	Mud cutting from 15.2 to
11,243	1900	14.1
11,429	2000	13.6
11,524	2200	13.6

Broke circ @ 11,618 w/full returns. Ran out of cmt @ 11,200'.
Mud: (gradient .790) 15.2 x 47 x 6
12/17: 12,350/89/80/0. Circ prior to tripping for bit. CO to 12,350 and circ out gas. Reamed each jt from 11,618-12,350. Max gas: 8000 units w/mud cutting to 14.1 ppg.
Mud: (gradient .790).15.2 x 48 x 4.6
12/18: 12,391/89/81/41. Drilling. Circ and pmpd pill. Picked up DC's and staged in hole. No mud loss. Background gas: 50 units. Connection gas: 900 units. Trip gas: 2500 units.
Mud: (gradient .790) 15.2 x 50 x 4.9 (3% LCM)
DEC 18 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,477/89/82/86. Drilling. No mud loss. Background gas: 100 units. Connection gas: 1100 units.
Mud: (gradient .790) 15.2 x 48 x 5 (1½% LCM)
DEC 19 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,506/89/83/29. Pulling plugged bit. Circ and pmpd pill, unplugged bit and attempted to circ. Started pulling plugged bit. Background gas: 100 units.
Mud: (gradient .790) 15.2 x 50 x 5.3
DEC 20 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,532/89/84/26. Drilling. Pulled plugged bit. Circ mud over shaker and staged in to 1000'. Circ out gas. Trip gas: 4500 units. Connection gas: 2000 units. Background gas: 250 units. No mud loss.
Mud: (gradient .790) 15.2 x 50 x 6 (4.51% LCM)
DEC 21 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12,673/89/85/141. Drilling. Background gas: 300 units. Connection gas: 200 units. No mud loss past 24 hrs.
Mud: (gradient .790) 15.2 x 48 x 6 (2.21#/bbl LCM)
DEC 22 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

12/23: 12,673/89/86/177. Drilling. Background gas: 100 units. Connection gas: 600 units. No mud loss. Mud: (gradient .790) 15.2 x 50 x 5.0 (2.2#/bbl LCM)
12/24: 13,008/89/87/158. Drilling. Background gas: 50 units. Connection gas: 850 units. No mud loss. Mud: (gradient .790) 15.2 x 50 x 5.2 (2#/bbl LCM)
12/25: 13,180/89/88/172. Drilling. Background gas: 250 units. Connection gas: 800 units. No mud loss. Mud: (gradient .790) 15.2 x 49 x 5
12/26: 13,280/89/89/100. Tripping in hole. While running GR-Sonic w/cal, hung up @ 12,760. Logger's TD 13,288. Cond hole and pmpd pill and started back in hole. No mud loss. Background gas: 200 units. Connection gas: 600 units. DEC 2 0 1972
Mud: (gradient .790) 15.2 x 48 x 5 (1.2#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

13,280/89/90/0. Cond mud. Staged to btm and circ, losing returns. Attempted to regain circ 1 hr. Pulled to shoe w/no returns; pulled to 8100' w/no returns; pulled to 6300' w/no returns; pulled to 1600' w/returns. Build mud vol and circ. Background gas: 150 units. Trip gas: 1250 units. DEC 2 7 1972

Shell-Chevron-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

13,280/89/91/0. Logging. Staged in hole and circ. Tripped out to log. DEC 2 8 1972
Mud: (gradient .790) 15.2 x 48 x 6.0 (.75#/bbl LCM)

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
7" csg @ 10,920'

13,280/89/92/0. Pulling out to run liner. Finished logging as follows: Ran BHCS-GR, DIL and CNL/FDC-GR from 10,920-13,280. Trip gas: 2000 units.
Mud: (gradient .780) 15.2 x 50 x 6 DEC 2 9 1972

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
5" liner @ 13,291'

12/30: 13,291/89/93/0. WOC. Made SLC: 13,280=13,291. Ran 58 jts (2502') 5" N-80, 18# SFJ-P liner w/shoe @ 13,291 and hanger @ 10,789. B-J cmtd w/650 cu ft Class "G" w/1% gel, 1.25% D-31 and 0.1% R-5. Displaced w/117 bbls mud. Bumped plug, float held. CIP @ 1:15 AM, 12/30/72. Had full returns throughout cmt job. Max gas: 3500 units.
12/31: 13,291/89/94/0. Drilling cmt. WOC and tripped in, tagging top of cmt @ 9364. DO to 9980.
Mud: (gradient .785) 15.1+ x 49 x 6.0
1/1: 13,291/89/95/0. Drilling cmt. DO cmt to 10,165.
Mud: (gradient .785) 15.1+ x 48 x 5.8
1/2: 13,291/89/96/0. Drilling cmt. DO cmt to 10,389.
Mud: (gradient .785) 15.1+ x 49 x 6.0 JAN 2 1973

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
5" liner @ 13,291'

13,291/89/97/0. Drilling cmt. DO cmt from 10,389 to 10,560.
Mud: (gradient .790) 15.2 x 52 x 5 JAN 3 1973

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
5" liner @ 13,291'

13,291/89/98/0. Drilling cmt. DO cmt from 10,560-10,758 w/3700 units max gas. Mud cutting from 15.2 to 13.7 ppg. Tripped for new mill.
Mud: (gradient .790) 15.2 x 50 x 5.0 JAN 4 1973

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,280' Wasatch Test
5" liner @ 13,291'

13,291/89/99/0. Drilling cmt @ 13,250. Circ 2¼ hrs. Tested liner lap w/1500 psi. Drld packing out of Burns liner hanger. Tagged cmt plug @ 13,149, DO same.
Mud: (gradient .790) 15.2 x 51 x 5.3 JAN 5 1973

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,291' Wasatch Test
5" liner @ 13,291'

1/6: 13,291/89/100/0. PB 13,260. Pulling pkr to 8000'. DO firm cmt to 13,260. Circ out and tested liner to 1500 psi for 15 min, OK. Tripped in and set pkr @ 10,789. Tested csg to 1500 psi. Displaced DP w/74 BW and inflow tested for 30 min, OK. Reversed out wtr and started pulling pkr to 8000'.
Mud: (gradient .790) 15.2 x 51 x 5.3 JAN 8 1973
1/7: 13,291/89/101/0. PB 13,260. Laying down DP. Tested annulus @ 8000' w/2500 psi; at 5250' w/3500 psi and @ 2500' w/4500 psi. Started laying down DP.
Mud: (gradient .790) 15.2 x 51 x 5.3
1/8: 13,291/89/102/0. PB 13,260. Nippling down BOP's. Finished laying down DP and DC's and started nippling down BOP's.
Mud: (gradient .740) 15.2 x 51 x 5.3

Shell-
Brotherson 1-15B4
(D) Brinkerhoff #57
13,291' Wasatch Test
5" liner @ 13,291'

13,291/89/103/0. PB 13,260. Cleaning mud pits. Installed WH and nippled down. JAN 9 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Cleaning mud pits. Released rig @ 8 PM, 1/9/73. (RDUFA) JAN 10 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. (RRD 1/10/73) Testing BOP's. MI&RU Western Oilwell Service on 1/22/73. Installed BOP's. JAN 2 3 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Going in hole w/bit and scraper. Finished RU Western. Unloaded tbg and heat string. Picked up 4-1/8" bit and 2479' of 2-7/8" tbg, 7" scraper and 2-7/8" tbg. JAN 2 4 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Pulling out of hole. Finished picking up tbg. Ran to 13,288 and displaced 15.1 ppg mud w/FW. Checked for inflow - none. Press tested to 4000 psi, OK. Sptd 50 bbls 2% NaCl on btm. Pulled 10 stds. JAN 2 5 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Logging. Pulled tbg and scraper. Laid down 2479' of tbg and bit. RU Schl and started logging - tool failed. Pulled out and RD Schl. RU OWP and ran in hole to log CBL, VDL and PDC logs. JAN 2 6 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260.
1/27: Nippling down. Ran CBL, VDL and PDC logs w/3000 psi press while running CBL. Top of cmt @ 9300'. Ran Baker Model "D" prod pkr to 10,766. RD OWP. Ran 111 jts 5½" 14#, K-55, ST&C heat string w/special clearance couplings to 4490'.
1/28: Testing prod eqmt. Installed BPV, removed BOP, installed and tested 6" 5000 psi x 10" 5000 psi tbg spool and installed BOP, testing to 5000 psi. Started running prod eqmt.
1/29: RDCR. Finished running prod eqmt as follows: Baker Model "C" expendable plug holder w/Model "D" pushout plug in place @ 10,796, 30' 2-7/8" N-80, 10rd nonperf'd prod tube, Baker anchor tbg seal assembly w/ 2 seal units, Baker Model "EL" on-off connector w/Otis 2.313" N nipple w/2.255" no-go @ 10,760', 8' sub, 2-7/8" EUE 8rd N-80 tbg sub w/one centralizer, 3 jts tbg, Camco KBM-G mandrel w/dummy in place @ 10,651' - #HN-2, 164 jts tbg, Camco KBM-G mandrel w/dummy in place @ 5515 - #HN-1, 175 jts tbg, 8' sub, 4' sub and 1 jt tbg. All tbg and subs 2-7/8" EUE 8rd N-80. Total tally 343 jts tbg, two 8' subs and one 4' sub. Circ back side w/ treated wtr. Spaced out and latched onto on-off tool w/10,000# set-down wt. Tested tbg to 7500 psi for 1 hr. Lost 25 psi. Removed BOP, installed 10,000# Xmas tree and tested to 10,500 psi, OK. Released rig @ 4:30 PM, 1/28/73. JAN 2 9 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260.
2/3: SI for burn permit. SITP 4000 psi. Opened well to pit and flowed well on 64/64" chk, flowing approx 150 BW and 50 BO. SI well w/5000 psi TP. Could not get burn permit - will flow back later. FEB 5 1973
2/4: SI for burn permit.
2/5: SI for burn permit.

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. SI for burn permit. (RDUFA)
FEB 6 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. (RRD 2/6/73). SI for BHP. Flowed to pit 5 hrs to clean up, flowing est 1250 BO, 125 BW and 4.5 MMCF gas/day on 64/64" chk w/TP from 1125 to 1200 psi. Chokes and press's as follows:

Choke	TP	Choke	TP
64/64"	1200	24/64"	3450
54/64"	1350	14/64"	4400
44/64"	2000	4/64"	4775
34/64"	2700		

FEB 13 1973
SI @ 7:40 PM w/4800 psi SITP.
Pumped 2 bbls diesel in tbg - TP 4900 psi. Ran tandem bombs to 12,000'. Job complete @ 10 PM. TP 4975 psi. Will pull bombs @ 6 PM, 2/15/73.

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. SI for BHP. FEB 14 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. SI for BHP. FEB 15 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. SI for BHP. FEB 16 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. SI, WO prod facilities. Pulled BHP on 2/15. TP after 71 hrs - 5000 psi. After being SI 2½ hrs, press 8479 psi; after 60-3/4 hrs, press 8585 psi, after 70-3/4 hrs, press 8578 psi. (RDUFA) FEB 19 1973

Shell-
Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner at 13,291'

TD 13,291. PB 13,260. Flowing. On 23-hr test, flowed 407 BO, 8 BW, and 368 MCF on 10/64" chk w/4100 FTP, 0 CP. JUN 18 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, well flowed 1021 BO, no wtr and 937 MCF gas on 10/64" chk w/4000 psi FTP.
Addition to yesterday's report: (RRD 2/19/73). Chevron's 9.375% interest in this well acquired by Shell giving Shell 100% interest. JUN 14 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, well flowed 886 BO, no wtr and 877 MCF gas on 10/64" chk w/ 4000 psi FTP and zero CP. JUN 15 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr tests, well flowed as follows:
Report JUN 18 1973

Date	BO	BW	MCF Gas	Chk	FTP	CP
6/16	1151	0	660	10/64"	4000	0
6/17	1009	0	629	10/64"	3950	0
6/18	737	0	806	10-8/64"	4100	0

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 14-hr test, flowed 271 BO, 45 BW and 474 MCF gas on 10/64" chk w/4000 psi FTP and zero CP. (Nitrogen SI) JUN 19 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, flowed 724 BO, no wtr and 625 MCF gas on 10/64" chk w/3950 psi FTP and zero CP. JUN 20 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, flwd 766 BO, 1 BW and 781 MCF gas on 10-12/64" chk w/3900 psi FTP and zero CP. JUN 21 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, well flwd 957 BO, no wtr and 902 MCF gas on 12/64" chk w/3900 psi FTP and zero CP. JUN 22 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On various tests, flwd as follows: JUN 25 1973

Report Date	BO	BW	MCF Gas	Chk	FTP	CP	Hrs
6/23	805	16	902	12/64"	3800	0	24
6/24	252	9	190	8/64"	4000	0	14
6/25	402	2	355	8/64"	4000	0	24

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, flwd 708 BO, 7 BW and 601 MCF gas on 10/64" chk w/3900 psi FTP and zero CP. JUN 26 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. On 24-hr test, flwd 719 BO, 14 BW and 601 MCF gas on 10/64" chk w/3900 psi FTP and zero CP. JUN 27 1973

Shell-Brotherson 1-15B4
(D)
13,291' Wasatch Test
5" liner @ 13,291'

TD 13,291. PB 13,260. Flowing. OIL WELL COMPLETE. On 24-hr test 6/27/73, flowed 824 BO, 7 BW and 601 MCF gas on 10/64" chk w/3900 psi FTP and zero CP from Wasatch and Flagstaff perfs 10,936, 10,953, 11,004, 11,052, 11,090, 11,102, 11,142, 11,166, 11,187, 11,212, 11,225, 11,239, 11,286, 11,316, 11,328, 11,385, 11,441, 11,468, 11,543, 11,598, 11,611, 11,629, 11,655, 11,670, 11,723, 11,879, 11,884, 11,908, 11,934, 11,965, 12,089, 12,114, 12,137, 12,160, 12,205, 12,241, 12,252, 12,321, 12,407, 12,432, 12,447, 12,483, 12,526, 12,543, 12,548, 12,578, 12,606, 12,611, 12,649, 12,687, 12,704, 12,715, 12,726, 12,764, 12,867, 13,026, 13,061, 13,122, 13,227, 13,235, 13,244.
Oil Gravity: 43.4° API @ 60°F.
Compl Test Date: 6/27/73. Initial Prod Date: 6/12/73.
Elev: 6250 GL, 6272 KB
Log Tops: TGR3 9,165 (-2893)
UPPER WASATCH TRANSITION 10,860 (-4588)
FLAGSTAFF 11,185 (-4913)
This well was drilled for routine development.
FINAL REPORT. JUN 28 1973

SHELL OIL CO.
RM-62 (Rev. 8-72)

CASING AND CEMENTING

Field Altamont Well Brotherson 1-15B4

Job: 13 3/8 " O.D. Casing/~~Liner~~. Ran to 312 feet (KB) on 9-30, 197 2

Jts.	Wt.	Grade	Thread	New	Feet	From KB / CHF	To CHF
8	68#	K-55	8rd	X	312	0	312

8 jts Total

Casing Hardware:
Float shoe and collar type Guide shoe B & W
Centralizer type and product number
Centralizers installed on the following joints 15' up from shoe - collar of 2nd jt
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:
Caliper type . Caliper volume ft^3 + excess over caliper ft^3 + float collar to shoe volume ft^3 + liner lap ft^3 + cement above liner ft^3 = ft^3 (Total Volume).

Cement:
Preflush–Water 10 bbls, other Volume bbls
First stage, type and additives Cmtd w/360 cu ft Class "G" treated w/3% $CaCl_2$. Weight lbs/gal, yield ft^3/sk, volume sx. Pumpability hours at °F.
Second stage, type and additives . Weight lbs/gal, yield ft^3/sk, volume sx. Pumpability hours at °F.

Cementing Procedure:
Rotate/reciprocate
Displacement rate 3 B/M
Percent returns during job Full
Did not Bump~~ed~~ plug ~~at~~ AM/PM with psi. Bled back bbls. Hung csg with lbs on slips.

Remarks:
Displaced w/42 bbls water. Baffle failed w/100# above circulating press.

Drilling Foreman D. Enterline
Date 9-30-72

SHELL OIL CO.
RM-62 (Rev. 8-72)

CASING AND CEMENTING

Field Altamont Well Brotherson 1-15B4

Job: 9 5/8 " O.D. Casing/~~Liner~~ Ran to 6430 feet (KB) on 10-17, 1972

Jts.	Wt.	Grade	Thread	New	Feet	From	To
					25.00'	KB	CHF
151	40#	K-55	ST&C	X	6356.79	CHF	-6347.48
		HOWCO Diff Fill Float Collar			2.30		6349.78
2	40#	K-55	ST&C	X	79.07		6428.85
		HOWCO Guide Shoe			1.15		6430.00

153 jts Total

Casing Hardware:
Float shoe and collar type Guide shoe, diff fill float collar (Howco)
Centralizer type and product number Howco 9 5/8"
Centralizers installed on the following joints 6' above shoe, 1st, 3rd, 5th, and 7th
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:
Caliper type _____. Caliper volume _____ ft^3 + excess over caliper _____ ft^3 + float collar to shoe volume _____ ft^3 + liner lap _____ ft^3 + cement above liner _____ ft^3 = _____ ft^3 (Total Volume).

Cement:
Preflush—Water 10 bbls, other _____ Volume _____ bbls
First stage, type and additives 700 cu ft 1:1 Diamix "A", 4% gel. Weight 12.5 lbs/gal, yield _____ ft^3/sk, volume _____ sx. Pumpability 4 hours at 120 °F.
Second stage, type and additives 200 cu ft Class "G" w/retarder. Weight 15.9 lbs/gal, yield _____ ft^3/sk, volume _____ sx. Pumpability 4 hours at 120 °F.

Cementing Procedure:
Rotate/reciprocate
Displacement rate 6+ B/M
Percent returns during job 100%
Did not Bumped plug at CIP 1:35 AM/~~PM~~ with 500 psi. Bled back 1¼ bbls. Hung csg with 230,000 lbs on slips.

Remarks:
Overdisplaced 5 bbls.

Drilling Foreman Bob S. Horn
Date 10-18-72

SHELL OIL CO.
RM-62 (Rev. 8-72)

CASING AND CEMENTING

Field Altamont Well Brotherson 1-15B4

Job: 7 " O.D. Casing/~~Liner~~ Ran to 10,920 feet (KB) on 11-7, 1972

Jts.	Wt.	Grade	Thread	New	Feet	From	To
						KB	CHF 24'
261	26#	S-95	8rd ST&C	X	10,896	CHF	10,920

261 jts Total

Casing Hardware:
Float shoe and collar type Float shoe on btm, float collar 3 jts up at 10,798
Centralizer type and product number Halliburton
Centralizers installed on the following joints 12' up on btm jt, top of btm jt, top of 2nd & 3rd jt
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:
Caliper type ____. Caliper volume 400 ft³ + excess over caliper 20% ft³ + float collar to shoe volume 26 ft³ + liner lap -- ft³ + cement above liner ____ ft³ = ____ ft³ (Total Volume). 500 cu ft

Cement:
Preflush—Water 20 bbls, other 500 cu ft Volume 89½ bbls
First stage, type and additives 311 cu ft BJ ltwt treated w/.5% D-31. Weight 12.4 lbs/gal, yield ____ ft³/sk, volume 311 cu ft. Pumpability 4 hours at ____ °F.
Second stage, type and additives 189 cu ft Class "G" treated w/1% D-31, .1% R-5. Weight ____ lbs/gal, yield ____ ft³/sk, volume 189 cu ft. Pumpability 4 hours at ____ °F.

Cementing Procedure:
Rotate/reciprocate Reciprocated
Displacement rate 5½ B/M
Percent returns during job 1/2% for 370 bbls, disp none from 370-419 bbls
Bumped plug at ____ AM/PM with ____ psi. Bled back ____ bbls. Hung csg with 280,000 lbs on slips.

Remarks:
Did not bump plug, held cmt 2 hrs. Annulus stood full. Lost complete circ after displacing 70 bbls mud.

Drilling Foreman D. W. Enterline
Date 11-9-72

SHELL OIL CO.
RM-62 (Rev. 8-72)

CASING AND CEMENTING

Field Altamont Well Brotherson 1-15B4

Job: 5 " O.D. ~~Csg~~/Liner. Ran to 13,291 feet (KB) on 12-30, 1972

Jts.	Wt.	Grade	Thread	New	Feet	From KB	To CHF
58	18#	N-80	SFJP	X	2502	CHF	13,291

58 jts Total

Burns hanger at 10,789

Casing Hardware:
Float shoe and collar type Shoe at 13,291
Centralizer type and product number
Centralizers installed on the following joints
Other equipment (liner hanger, D.V. collar, etc.)

Cement Volume:
Caliper type . Caliper volume ft^3 + excess over caliper ft^3 + float collar to shoe volume ft^3 + liner lap ft^3 + cement above liner ft^3 = ft^3 (Total Volume).

Cement:
Preflush—Water bbls, other Volume bbls
First stage, type and additives BJ cmtd w/650 cu ft Class "G", 1% gel, 1.25% D-31, and .1% R-5. Weight lbs/gal, yield ft^3/sk, volume sx. Pumpability hours at °F.
Second stage, type and additives . Weight lbs/gal, yield ft^3/sk, volume sx. Pumpability hours at °F.

Cementing Procedure:
Rotate/reciprocate
Displacement rate
Percent returns during job
~~Bumped plug at~~ CIP 1:15 AM/~~PM~~ with psi. Bled back bbls. Hung csg with lbs on slips.

Remarks:
Displaced w/117 bbls mud. Bumped plug. Float held. Had full returns throughout job.

Drilling Foreman
Date

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: 1601' FNL and 1229' FEL Section 15

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.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-T2S-R4W

14. PERMIT NO.: 43-013-30159

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6250 GL, 6272 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) Production Log			[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.) *

To document files, a production log has been run on above-named well. Copy available in Operator's files. Attached is a copy of the report indicating log being run.

cc: USGS - Salt Lake City, w/attachment

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

SIGNED T. S. Maze TITLE Division Operations Engr. DATE 11/15/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

PRODUCTION LOG WELL				ALTAMONT
SHELL OIL COMPANY	LEASE	BROTHERSON	WELL NO.	1-15B4
	DIVISION	WESTERN	ELEV	6272 KB
	COUNTY	DUCHESNE	STATE	UTAH
11/12/74 - 11/13/74	LOCATION	SE/4 NE/4 SECTION 15-T2S-R4W		

UTAH

ALTAMONT

Shell-Brotherson 1-15B4
(Run prod log)

"FR" TD 13,291. PB 13,260. Production logging. AFE #412177 provides funds to prod log well. On 11/11/74, cut wax and backed well down w/diesel. RU Schl and made dummy run w/no drag. Ran spinner survey tools and opened well to stabilize.

NOV 12 1974

Shell-Brotherson 1-15B4
(Run prod log)

TD 13,291. PB 13,260. Producing. Started logging at 11:40 AM, 11/12. Ran temp log and gradiometer. Ran spinner below scale deposition at 12,400-12,700 and above scale deposition. Pulled out and RD Schl. Put well back on production.
FINAL REPORT.

NOV 13 1974

FORM OGC-8-X
FILE IN QUADRUPLICATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL AND GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Shell-Brotherson 1-15B4

Operator Shell Oil Company (Rocky Mountain Division Production)

Address 1700 Broadway, Denver, Colorado 80202

Contractor Brinkerhoff Drilling Company

Address 600 Denver Club Building, Denver, Colorado 80202

Location SE 1/4, NE 1/4, Sec. 15, T. 2 N./S., R. 4 E./W., Duchesne County.

Water Sands:

	Depth: From -	To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	No sands tested or evaluated and no water flow encountered			
2.	(GR from 200' to TD)			
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

Formation Tops:

NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (see back of this form)
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

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: 1601' FNL & 1229' FEL Section 15

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.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-T2S-R4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272 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	[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 OE
OIL, GAS, AND MINING
DATE: Sept. 30, 1976
BY: P. L. Driscoll

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

SIGNED J. W. Brunel TITLE Div. Opers. Engr. DATE 9/24/76

(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

PERFORATE & ACID TREAT
SHELL OIL COMPANY

FROM: 6/10/76 - 9/24/76

LEASE BROTHERSON
DIVISION WESTERN
COUNTY DUCHESNE

ALTAMONT
WELL NO. 1-15B4
ELEV 6272 KB
STATE UTAH

UTAH
ALTAMONT

420837

Shell-Brotherson 1-15B4 (Perf & AT)	"FR" TD 13,291. PB 12,738. AFE provides funds to perf & AT. 6/9 MI&RU Western #19. Removed tree and installed & tested BOP's. Unlatched from pkr. Pmp'd 400 BW & could not est circ. Started POOH. JUN 10 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,291. PB 12,738. Chng'd out rams & pulled 5-1/2" heat string. SI well. JUN 11 1976
Shell-Bortherson 1-15B4 (Perf & AT)	TD 13,291. PB 12,738. 6/11 RIH w/7" pkr picker; could not est circ. Pmp'd 400 BW & no returns. Milled on pkr @ 10,766 for 3 hrs. Started POOH w/pkr remains; pkr drag'g. Left well SI w/approx 2000' tbg in hole. 6/12 LD pkr remains & pkr picker. RIH on 2-7/8 tbg to top of fill @ 12,700 w/flat btm mill, finger basket & 1 jt 3-1/8 WP. Est reverse circ. Milled & washed down to 13,028. Pulled 5 stds. SI well. JUN 14 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,291. PB 12,738. Milled & washed to 13,263 (tbg meas) & hit hard btm. Pulled up & circ'd in reverse for 1-1/2 hrs to clean up. POOH except last 1000' tbg. SI for night. JUN 15 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,291. PB 12,738. Pmp'd in 100 bbls lse wtr to control gas. RIH w/Bkr 5" pkr; couldn't get thru liner top @ 10,789. POOH. RIH w/Acme 4.15 OD tapered mill & milled out 6' liner top; mill hang'g up. Pulled mill above liner top. SI for night. JUN 16 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,291. PB 12,738. Worked mill thru liner top & found junk or tight spts @ 11,030 & 11,096. RIH to 13,260. POOH & found tight spt @ 11,124. RU OWP. RIH & set Bkr 5" FA pkr @ 12,790 w/depth ref to OWP GR & SCBL dated 1/26/73. RD OWP. RIH to 1900' w/seal assembly w/2-1/4 +45 seat'g nip directly on top. SI overnight. JUN 17 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,291. PB 12,738. RIH w/tbg & latched into 5" pkr @ 12,790. Set down, then pulled to 20,000#, ok. Filled csg annulus w/prod wtr & spaced out tbg w/5000# tension. Press tested tbg to 7500 psi for 1 hr & bled off to 7200 psi, ok. RIH & KO Bkr expendable plug from pkr @ 12,790. Chased plug to 13,260. POOH. Pmp'd in 150 bbls lse wtr down csg @ 3 B/M @ 2000 psi w/tbg open @ sfc; no indication of communication. Pmp'd 20 bbls hot wtr down tbg @ 1.5 B/M @ 6000 psi. SI overnight.

JUN 18 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,738. 6/18 Released rig 8:30 p.m. MI&RU OWP to perf 13,038-13,249 - one hole/ft w/bi-wire carrier w/24 gm Tornado jet aluminum capsules per prog. Depth ref OWP GR & SCBL dated 1/26/73. Run #1 - 13,249-13,218 (31 shots); tbg full of wtr - no press. Run #2 - 13,218-13,188 (30 shots); no press - FL drop'g. Run #3 - 13,188-13,158 (30 shots); no press. Run #4 - 13,158-13,128 (30 shots); start'g press 50# - end press 200#. Run #5 - 13,128-13,098 (30 shots); start'g press 350# - end press 380#. SI for night. 6/19 SIP 950 psi. Had some wax on top @ wellhead & had to blow down to 500 psi before get'g gun in hole. Press up to 820 psi in 50 mins. Run #6 - 13,098-13,068 (30 shots); start press 820# - end press 820#. POOH. After 6th run gun had not fired. Flwd well hard several times & blew out about 15 chrgs, but still couldn't get thru tree. MI&RU BJ. Pmp'd in 80 bbls hot lse wtr. Flwd back again. RIH w/sinker bars to 3780 & hung up again. Worked free & POOH. RD BJ. SI overnight. 6/20 MI&RU Sun & RIH w/2" OD driving head & jars. Found junk @ 6000' & 10,800' & worked free. PU Run #6; well had 3000 psi SIP. Blew back approx 2-1/2 bbls & well drop'd to 0. Run #6 - 13,098-13,068 (30 holes); left well open on chk (sml stream flw'g back). Run #7 - 13,068-13,038 (30 holes); sml stream flw'g back. POOH. Ran temp survey from 12,790 to 13,259 (TD). RD OWP. Pmp'd 5 bbls dbl-inh'd wt'd gelled 10% HCl foll'd by 70 bbls lse wtr per prog. SI overnight.

JUN 21 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,738. BJ AT gross perfs 12,867-13,249 (218 holes) w/660 bbls 7-1/2% HCl. Csg had 1000 psi gas press; bled off gas. Filled annulus w/160 bbls prod wtr. Pmp'd 2-4 B/M down annulus to maintain 2000 psi thruout job. Pmp'd 2 bbls acid & drop'd one 7/8" ball sealer. Repeated 362 times. Pmp'd 6 bbls acid w/o Unibeads. All additives as per prog. Flushed w/83 bbls prod wtr. Max press 7300 psi, min 5900, avg 6500. Max rate 10 B/M, avg 9. ISIP, 5 mins, 10 mins & 15 mins 5300 psi. CP went to 0 in 8 mins. RD&MO BJ. MI&RU OWP & RIH w/temp & GR tools to log trtmt. 1.5-hr SITP 1200. Temp tool stuck @ 7370; pulled free. Tbg on vac. RD&MO OWP. SI overnight.

JUN 22 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,738. Ran slickline w/2.20 impress blk to 7370; didn't get clear picture. Reran dressed impress blk; looked like fine wire & other parts of perf'g debris. Ran 2" driving blk & moved junk to 7850; got some junk above tooler. Pmp'd 100 bbls hot wtr @ 2 B/M w/0 psi. FL 3600' before & 2400' after. Ran 2.40 tool to 12,790; no obstruction. Ran 2.0 tool to 13,260. POOH. Sli press on annulus; tbg on vac. SI overnight.

JUN 23 1976

Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. MI&RU [redacted]. Set std'g valve in seat'g nip @ 12,789. FL in csg 3751; CP 100 psi. FL in tbg 4136; TP 150 psi. Pmp'd 45 bbls diesel down tbg; tbg on vac. CP incr'd to 140 psi. Pulled std'g valve. MI&RU OWP & ran GR log over perf'd interval. RD OWP & SI overnight. Press test indicates leak in tbg. JUN 24 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. Prep to repair tbg leak. (Report discontinued until further activity) JUN 25 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. (RRD 6/25/76) MI&RU Western #17 to locate communication problem. JUL 01 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. Unlatched from pkr & well dead. RIH w/std'g valve & seated in +45 seat'g nip 12,789. POOH w/tbg & found split jt of tbg @ 7358. Found scale buildup on btm 3 jts. Started back in hole. SD for night. JUL 02 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. Latched into pkr & landed tbg on donut w/5000 psi tension. Fished SV w/overshot on sdline. Pmp'd prod wtr down tbg @ 1.5 B/M @ 4000 psi & press incr'd to 4400 psi in 1/2 hr w/no returns or communication into annulus. Bled off press & installed BPV in tbg donut. Removed BOP's & installed and tested 5000# tree. Well would not flw to pit. Swab'd 1-1/2 hrs; FL last run @ 7000' - very little fluid entry. Swab'd all wtr w/tr oil & gas on last run. SI well. Released rig #17 7 p.m. 7/2/76. 7/3 18-hr SITP 50 psi. Opened well to battery. Flwd only gas & died in 15 mins. SI well. 7/4 SITP 100 psi. JUL 06 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. SITP 200 psi. Prep to open. JUL 07 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 12,738. SI. JUL 08 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 13,262. RU Nowsco & ran CT to 10,000, 12,500 & 13,000 & blew tbg dry. Inj'd total of 140,000 SCF N2. Well would not feed in fluid. RD Nowsco. SI well. JUL 09 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 13,262. No report. JUL 12 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 13,262. SI. JUL 13 1976
Shell-Brotherson 1-15B4 (Perf & AT)	TD 13,259. PB 13,262. SI. JUL 14 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 13,262. SI.
(Report discontinued until further activity) JUL 15 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 13,262. (RRD 7/15/76) MI&RU Western #17. Bled off tbg & csg. Run'g tbg & DR plug to stab into pkr @ 12,790. SEP 09 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 13,262. Sheared off plug & pulled 1 jt tbg. Circ'd hole free of gas. Spt'd 4 sx 20-40 mesh down tbg on top of plug. Pulled tbg. OWP ran Bkr Model K cmt ret & set @ 12,620'. SEP 10 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. 9/10 Stung into ret. Test tbg to 4500 psi, ok. Set down w/20,000# on ret. Attempted to est inj rate & could not pmp in @ 4500 psi. Pmp'd 100 bbls prod wtr & est circ. Stung back into ret & press'd tbg to 7500 psi; still could not pmp. Spt'd on top of ret 5 sx Class G cmt. Reverse circ'd out excess cmt. Left 8' cmt in hole. PB @ 12,612. Pulled 5 stds tbg & pmp'd 10 bbls prod wtr down tbg to insure no cmt settled on top of stinger. WOC. 9/11 RIH w/tbg & spt'd 1500 gals 15% HCl acid @ 12,600. After acid on frm 1 hr, pmp'd 50 bbls prod wtr into well to flush acid. MI&RU OWP. Set Bkr 7" Model D pkr @ 10,765. RD&MO OWP. RIH w/tbg tail & seal assembly.
SEP 13 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. RIH w/prod string. Stung thru pkr & latched in. Tested pkr w/10,000# set down & tension. Unlatched from pkr & spaced out. Landed tbg on donut w/5000 psi tension. Press tested tbg to 5000#, ok. Fished SV. Removed 1-13/16 5000# valve from AP spool & installed on tbg spool. Removed BOP's. Installed & tested 5000# tree. Released rig 4 p.m. 9/13/76. SEP 14 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. No report.
SEP 15 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. Put well on gas lift & turned over to prod. SEP 16 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On 10-hr test, gas lifted 54 BO, 99 BW, 482 MCF gas w/200 psi. SEP 17 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
9/18:	24	315	845	612	1375
9/19:	24	344	88	1124	1420
9/20:	24	207	709	1307	1420

SEP 20 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On 24-hr test, gas lifted 144 BO, 269 BW, 1067 MCF gas w/1420 psi. SEP 21 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On 24-hr test, gas lifted 158 BO, 816 BW, 1045 MCF gas w/1440 psi. SEP 22 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On 24-hr test, gas lifted 213 BO, 826 BW, 979 MCF gas w/1420 psi.

SEP 23 1976

Shell-Brotherson 1-15B4
(Perf & AT)

TD 13,259. PB 12,612. On 24-hr test 6/8/76 prior to work, prod 22 BO, 1 BW, 114 MCF gas w/50 psi. On 24-hr test dated 9/24/76 after work, gas lifted 189 BO, 709 BW, 730 MCF gas w/1400 psi inj press.
FINAL REPORT

SEP 24 1976

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: 1601' FNL & 1229' FEL Section 15

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.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272 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) Pull gas lift equip & pkr			[X]	(Other) Pull gas lift equip &pkr			[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 Nov. 1, 1977
P. L. Driscoll
Utah Division Oil, Gas & Mining

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

SIGNED R. Plauty TITLE Div. Opers. Engr. DATE OCT 12 1977

(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

LYTE RESEARCH LABORATORIES

P.O. Box 119 Fort Duchesne, Utah 84026 (801) 722-2254

LABORATORY NUMBER W-1587
SAMPLE TAKEN 11-11-74
SAMPLE RECEIVED 11-13-74
RESULTS REPORTED 11-15-74

Sec. 15-2S-4W

SAMPLE DESCRIPTION FIELD NO.
COMPANY SHELL OIL COMPANY LEASE Brotherson WELL NO. 1-15B4
FIELD COUNTY STATE
SAMPLE TAKEN FROM
PRODUCING FORMATION Wasatch TOP
REMARKS Produced water from Heater Treater

SAMPLE TAKEN BY Dale Gueck

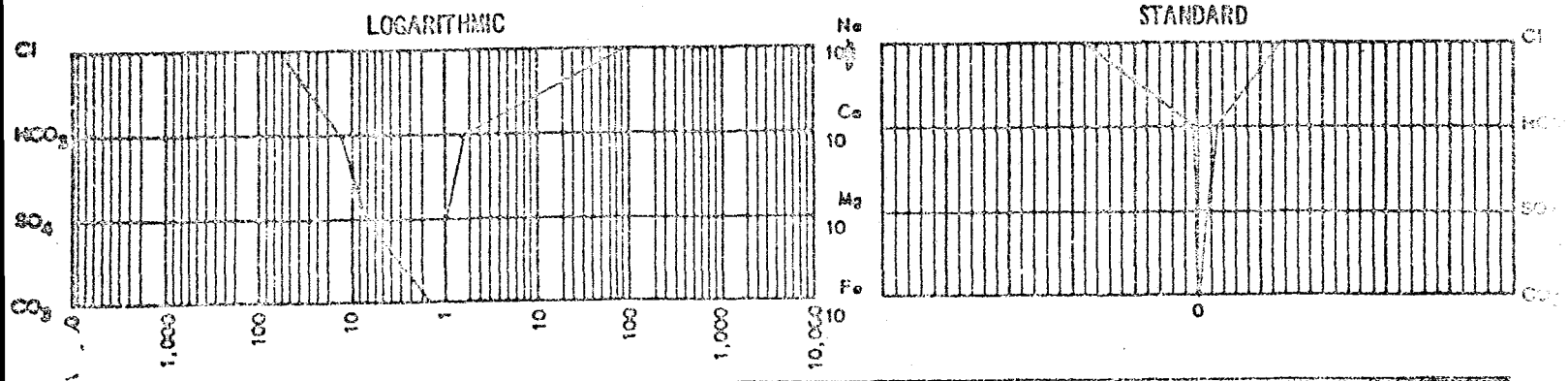
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 0.9970 pH 8.58 RES. 10.2 / 1.02 OHM METERS @ 77°F

TOTAL HARDNESS 103.0 mg/L as $CaCO_3$ TOTAL ALKALINITY 1000 mg/L as $CaCO_3$

CONSTITUENT	MILLIGRAMS PER LITER mg/L	MILLEQUIVALENTS PER LITER MEQ/L		REMARKS
CALCIUM - Ca^{++}	35.8	1.79		
MAGNESIUM - Mg^{++}	3.10	0.3		
SODIUM - Na^{+}	2050	89.1		
BARIUM (INCL. STRONTIUM) - Ba^{++}	4.5	0.07		
TOTAL IRON - Fe^{++} AND Fe^{+++}	0.43	0.02	92.3	
BICARBONATE - HCO_3^{-}	948	15.54		
CARBONATE - CO_3^{--}	52	1.73		
SULFATE - SO_4^{--}	400.0	8.33		
CHLORIDE - Cl^{-}	2349.1	66.2	91.8	
TOTAL DISSOLVED SOLIDS	6280			

MILLEQUIVALENTS PER LITER



ANALYST

CHECKED

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: 1601' FNL & 1229' FEL Section 15

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.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272 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 FEB 14 1978

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: Feb 16, 1978

BY: P L Driscoll

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

SIGNED: [signature] 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

CO, PERF & STIM

SHELL OIL COMPANY	LEASE BROTHERSON	WELL NO. 1-15B4	ALTAMONT
	DIVISION WESTERN	ELEV 6272 KB	
FROM: 10/26/77 - 1/3/78	COUNTY DUCHESNE	STATE UTAH	

UTAH
ALTAMONT

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

"FR" TD 13,291. PB 12,260 (RBP). AFE #425637 provides funds to remove prod equip, CO, perf & stim. 10/20 MI&RU WOW #19. Removed tree & installed & tested BOP. 10/21 Pmp'd 600 bbls prod wtr down annulus & est circ & cleaned up tbg. Ran pkr down to liner top @ 10,789 & chk'd for scale; no problem get'g thru. POOH & LD gas lift mndrls & pkr. PU mill & RIH. Ran 8000' 2-7/8 tbg & SI well. 6/24 Fin'd RIH w/mill to 12,600. Spt'd 50 bbls prod wtr containing 3 gals J22/1000 gals wtr on btm. POOH & LD 2100' 2-7/8 tbg. 10/25 MI&RU OWP & perf'd as per prog w/3-1/8 csg carrier gun 4 holes/ft. Run #1 - 12,594-12,390 (10'), Run #2 - 12,383-12,246 (10'), Run #3 - 12,239-12,048 (10'), Run #4 - 12,005-11,807 (10'), Run #5 - 11,793-11,075 (10'). Run #6 was perf'd w/4" csg gun w/4 holes/ft - 10,778-10,535 (11'). Total of 244 holes perf'd. SI well overnight.

OCT 2 6 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). SICP 150 psi; bled off all gas. Resumed perf'g w/3-1/8 csg gun @ 4 holes/ft & 120 deg. Run #7 - 11,658-11,491 (10'), Run #8 - 11,484-11,353 (10'), Run #9 - 11,340-11,066 (10'), Run #10 - 11,056-10,888 (10'), Run #11 - 10,881-10,798 (10'). Total of 111' perf'd & 444 holes. SI well overnight.

OCT 2 7 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). SICP 600 psi; bled to 0 (all gas). PU Bkr full bore pkr & RIH on 2-7/8 tbg. With 50 stds in pkr started set'g every jt. Started POOH; pkr set'g itself frequently. Well kicked w/20 stds left in hole. Circ'd hole w/prod wtr. Fin'd POOH. SI for night. Prep to rebuild, then rerun pkr.

OCT 2 8 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). 10/28 SICP 200 psi. Flwd well to pit 1 hr & CP 0. Bullheaded 50 bbls prod wtr down csg. Max press 250 psi. Bled off gas slowly. RIH w/Bkr full bore pkr; ran 57 stds. Filled tbg w/prod wtr & fin'd RIH to 10,490. MI&RU BJ & circ'd well w/250 bbls prod wtr to get oil out of csg. Drop'd SV & pmp'd down. Tested tbg to 7500 psi, ok. No drop in 15 mins. RD&MO BJ. SI well. 10/29 Bled gas off annulus; dead in 10-15 mins. RU fish'g tools on sdline & RIH to retrieve SV. Set pkr @ 10,490 & landed tbg on donut w/18,000# tension. Installed BVP in donut & removed BOP's. Installed 10,000# tree & removed BVP. RIH w/swb (1 cup) & pulled 2500' fluid. FL rose to 1800, but could not get swb down. RIH w/just sinker bars to 5000'. POOH & repeated alternately run'g swb & then just sinker bars several times & could not get swb down. FL up to 1200'. SI well.

OCT 3 1 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). 10/30 SITP 800 psi. Opened well to trt'r & well flwd 280 BO, 150 BW w/470 MCF gas on 24/64 chk w/100 psi FTP in 22 hrs. 10/31 Well flw'g on 24/64 chk w/75-100 psi FTP.

NOV 01 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). MI&RU BJ to acdz 10,535-12,611 (492 perfs) w/1095 bbls 7-1/2% HCl w/additives as per prog: 1. Pmp'd 50 bbls 7-1/2% w/30 ball sealers evenly distributed in acid. 2. Pmp'd 5 bbls acid containing 1#/gal Divert II. 3. Repeated Step 1 nineteen times & Step 2 eighteen times. 4. Flushed w/110 bbls prod wtr. Held 3500 psi on annulus during trtmt. Max rate 9.5 B/M, min 6, avg 8. Max press 9400 psi, min 6500, avg 7800. ISIP 2150 psi, 5 mins 1620, 10 mins 1600, 15 mins 1500. RD&MO BJ. MI&RU OWP to run GR log & temp log across perfs. RIH w/GR sonde & could not get tool to work properly. POOH. RIH w/2nd tool & log'd from 12,600-10,400. GR log indicated about 90% of perfs trt'd. RIH w/temp sonde & ran temp survey same as GR. 8-hr SITP 800 psi. SI well overnight.

NOV 02 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260 (RBP). SITP 800 psi. Opened well to pit to clean up on 20/64 chk. FTP decr'd sli & then started incr'g. Flwd oil & gas to pit in 45 mins. Flwd 15 more mins on 15/64 chk w/1100 psi FTP. SI well 15 mins to tie into bty. Opened well to bty @ 9 p.m. on 15/64 chk w/1100 psi FTP. Opened well to 22/64 w/800 psi FTP. Well flwd 266 BO & 752 BW in 21 hrs on 22/64 chk. FTP @ 6 a.m. 11/3/77 1200 psi. Released WOW #19 7 a.m. 11/3/77.

NOV 03 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim) 11/4/77

TD 13,291. PB 12,260. 11/3: In 24 hrs flowed 657 BO & 866 BW on 22/64" choke 1200 psi FTP. 11/4: Flowing.

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260. On 24-hr test, prod 677 BO, 866 BW, 734 MCF gas w/1200 psi.

NOV 07 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/4	24	1559	740	1259	950
11/5	19	1128	138	946	1100
11/6	24	1494	700	1519	1000

NOV 08 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,260. On 24-hr test, prod 1183 BO, 251 BW, 1259 MCF gas w/1050 psi.

NOV 09 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,612. AFE #485637 provides funds to prod log. RU Schl & made dummy run w/well SI. Opened well on 15/64 chk & let well stabilize @ 1500 psi. Made the foll'g traverses from PBTD @ 12,612 to 7" full bore @ 10,490: HRT (down), FBS (down), FBS (up), manometer (down), FBS (up) & FBS (down). With well stabilized @ 1300 psi & 15/64 chk, repeated above traverses. Opened well to 20/64 chk & stabilized @ 1000 psi, repeated above traverses. Found major inflw 75% to be @ 10,836 & 10,843; also flw from 12,557. Found well to have down flw from 10,836 & 10,843 to thief zone @ 12,239 & 12,246. Also flw from 12,557 going into zones @ 12,339 & 12,246.

NOV 10 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 813 BO, 459 BW, 914 MCF gas w/1000 psi. NOV 1 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 20-hr test, prod 1459 BO, 239 BW, 1464 MCF gas w/1000 psi. NOV 14 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 934 BO, 463 BW, 1450 MCF gas w/1000 psi. NOV 15 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1333 BO, 381 BW, 1282 MCF gas w/950 psi. NOV 16 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/13	24	1456	140	1426	1000
11/14	24	1331	398	1306	1000
11/15	24	1406	344	1555	1000

NOV 17 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1342 BO, 335 BW, 1328 MCF gas w/950 psi. NOV 18 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1309 BO, 290 BW, 1328 MCF gas w/950 psi. NOV 21 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/18	24	1309	280	1379	900
11/19	24	1267	236	1291	1000
11/20	24	1211	219	1228	1000

NOV 22 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1295 BO, 39 BW, 1012 MCF gas w/900 psi. NOV 23 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1037 BO, 83 BW, 1163 MCF gas w/900 psi. NOV 28 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
11/24	24	1306	235	1228	1025
11/25	24	1147	204	1228	1000
11/26	24	1019	176	1168	1000
11/27	24	1047	161	1019	1000

NOV 29 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1107 BO, 172 BW, 1276 MCF gas w/1000 psi. NOV 30 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1203 BO, 270 BW, 1478 MCF gas w/1000 psi. DEC 01 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1294 BO, 199 BW, 1025 MCF gas w/1000 psi. DEC 02 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24 test, prod 1195 BO, 163 BW, 1262 MCF gas w/950 psi.

DEC 05 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
12/2	24	1084	175	1007	900
12/3	24	1058	153	1216	1000
12/4	24	1089	168	1338	1000

DEC 06 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 962 BO, 170 BW, 1079 MCF gas w/1000 psi.

DEC 07 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1271 BO, 183 BW, 1079 MCF gas w/1000 psi.

DEC 08 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1087 BO, 237 BW, 1254 MCF gas w/950 psi.

DEC 09 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1107 BO, 188 BW, 1106 MCF gas w/950 psi.

DEC 12 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1255 BO, 176 BW, 1149 MCF gas w/950 psi.

DEC 13 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1028 BO, 256 BW, 1079 MCF gas w/900 psi.

DEC 14 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
12/11	24	1151	271	1106	900
12/12	24	1099	225	1106	850
12/13	24	1330	390	1180	800

DEC 15 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1128 BO, 302 BW, 1263 MCF gas w/800 psi.

DEC 16 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1228 BO, 400 BW, 1475 MCF gas w/650 psi.

DEC 19 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On various tests, prod:

Rept Date	Hrs	BO	BW	MCF Gas	Press
12/16	24	1309	483	1618	650
12/17	24	1219	424	1618	650
12/18	24	1083	393	1385	600

DEC 20 1977

Shell-Brotherson 1-15B4 (CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1084 BO, 393 BW, 1385 MCF gas w/600 psi.

DEC 21 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 947 BO, 386 BW, 1349 MCF gas w/650 psi.

DEC 2 2 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

TD 13,291. PB 12,612. On 24-hr test, prod 1054 BO, 360 BW, 1333 MCF gas w/625 psi.

DEC 2 7 1977

Shell-Brotherson 1-15B4
(CO, Perf & Stim)

DEC 2 8 1977

TD 13,291. PB 12,612. On various tests well gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
12/22	24	1163	262	1439	1300
12/23	24	1240	403	1439	1300
12/24	24	1198	407	1384	1300
12/25	24	957	283	1384	1300
12/26	24	1596	400	1384	1300

Shell-Brotherson 1-15B4
(CO, Perf, & Stim)

DEC 2 9 1977

TD 13,291. PB 12,612. On 24 hr test well gas lifted 1101 BO, 400 BW, 1401 MCF gas w/1300 psi inj press.

Shell-Brotherson 1-15B4
(CO, Perf, & Stim)

DEC 3 0 1977

TD 13,291. PB 12,612. Ran Production Log.

	1st Run	2nd Run	3rd Run
FTP	560 psi	820 psi	950 psi
B/DO	1600	940	0 to 725
B/DW	340	30	0 to 15
% Cut	17.5	3.0	0 to 20
Choke	29	16	4 to 8

Third run unstable. Major inflow point @ 10,840' (80%). Minor inflow from lower perfs. Caliper indicated scale from 12,350 to 12,470 w/min diameter of 3.0" - this interval was major thief zone during initial (previous) Prod Log but is no longer taking water or fluid.

Shell-Brotherson 1-15B4
(CO, Perf, & Stim)

JAN 1978

TD 13,291. PB 12,612. PERF & STIM COMPLETE. Prior to work well gas lifted 40 BO, 15 BW w/350 MCF/D gas lift injection gas. On test 1/1/78 well flowed 1194 BO, 353 BW, 23% cut, 1065 MCF/D gas on a 30/64" choke w/600 psi FTP.
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

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.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-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 NOV 22 1978

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: 1601' FNL & 1229' FEL Section 15

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272 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

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

SIGNED R. Plaudy TITLE Div. Opers. Engr. DATE 11/17/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attach for info

*See Instructions on Reverse Side

GAS LIFT — ALTAMONT

SHELL OIL COMPANY — LEASE BROTHERSON — WELL NO. 1-15B4

DIVISION WESTERN — ELEV 6272 KB

FROM: 9/5-10/26/78 — COUNTY DUCHESNE — STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-15B4
(Gas Lift)

"FR" TD 13,291. PB 13,260. AFE #425637 reopened to provide funds to put well on gas lift. TP 100#; CP 1350#. MI&RU WOW #12 & bled off CP. Pmp'd 100 bbls prod wtr down csg & 100 bbls down tbg. Pulled 2-7/8 tbg & 7" Bkr full bore pkr. Started in hole w/prod string. Ran 57 jts & SD for night. SEP 05 1978

Shell-Brotherson 1-15B4
(Gas Lift)

SEP 0

SEP 06 1978

TD 13,291. PB 13,260. TP & CP 600#; bled off gas. Pmp'd 60 bbls prod wtr down csg & 20 bbls down tbg & cont'd in hole. PU 6 jts & ran to 10,680. Pmp'd 62 bbls prod wtr down tbg to clean. Pmp'd 2700 gals 15% wt'd & gelled HCl acid down tbg. Spt'd on btm w/62 bbls prod wtr. Pmp'd 200 bbls prod wtr down csg. Tried to pull back up hole to put on prod; could not get full bore pkr to release. Brk safety jt on pkr to release slips. Started POOH; pkr drag'g badly. Pulled 135 jts tbg & SI for weekend.

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. TP 800# & CP 900#; bled well down to pit. Pmp'd 200 bbls prod wtr down csg & 100 bbls down tbg. Pulled 199 jts tbg. RIH w/ full bore pkr, +45 SN, 334 jts 2-7/8" tbg & 10 mndrls w/valves spaced as per tbg detail. Landed w/19,000# tension. Installed 5000# tree & tested to 5000#, ok. Hook up WH equip & turn well over to prod. SEP 07 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. age not available. SEP 08 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 3-hr test, gas lifted 246 BO, 27 BW & 196 MCF gas w/1370 psi inj press. SEP 11 1978

Shell-Brotherson 1-15B4
(Gas Lift)

SEP 12 1978

TD 13,291. PB 13,260. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
9/7	24	541	780	978	1370
9/8	24	417	641	812	1350
9/9	24	428	666	1079	1380

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test, gas lifted 467 BO, 855 BW & 1475 MCF gas w/1360 psi inj press. SEP 13 1978

Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test 9/11, gas lifted 414 BO, 877 BW & 1381 MCF gas w/1360 psi inj press. On 24-hr test 9/12, gas lifted 373 BO, 827 BW & 1079 MCF gas w/1280 psi inj press. SEP 14 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 344 BO, 920 BW & 1338 MCF gas w/1280 psi inj press. SEP 15 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 387 BO, 1003 BW & 1291 MCF gas w/1370 psi inj press. SEP 16 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 433 BO, 849 BW & 1526 MCF gas w/1380 psi inj press. SEP 19 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 343 BO, 840 BW & 1530 MCF gas w/1370 psi inj press. SEP 20 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test 9/17, gas lifted 351 BO, 884 BW & 1438 MCF gas w/1340 psi inj press. On 24-hr test 9/18, gas lifted 367 BO, 876 BW & 1093 MCF gas w/1300 psi inj press. SEP 21 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 283 BO, 766 BW & 1291 MCF gas w/1340 psi inj press. SEP 22 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 399 BO, 850 BW & 1246 MCF gas w/1340 psi inj press. SEP 25 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 341 BO, 773 BW & 1529 MCF gas w/1340 psi inj press. SEP 26 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 242 BO, 782 BW & 1246 MCF gas w/1340 psi inj press. SEP 27 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test 9/23, gas lifted 444 BO, 960 BW & 1223 MCF gas w/1340 psi inj press. On 24-hr test 9/24, gas lifted 382 BO, 787 BW & 1174 MCF gas w/1340 psi inj press. SEP 28 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. Gauge not available. SEP 29 1978
Shell-Brotherson 1-15B4 (Gas Lift)	TD 13,291. PB 13,260. On 24-hr test, gas lifted 380 BO, 837 BW & 1213 MCF gas w/1340 psi inj press. OCT 02 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On various tests, gas lifted:

Date	Hrs	BO	BW	MCF Gas	Inj Press
9/26	24	475	838	1147	1360
9/27	24	524	863	1247	1360
9/28	24	0	390	703	1360
9/29	24	496	827	1688	1370
9/30	24	387	838	1530	1370

OCT 03 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. Gauge not available. OCT 04 1978

Shell-Brotherson 1-15B4
(Gas Lift)
OCT 05 1978

TD 13,291. PB 13,260. On 24-hr test 10/1, gas lifted 388 BO, 824 BW & 1157 MCF gas w/1370 psi inj press. On 24-hr test 10/2, gas lifted 354 BO, 819 BW & 1228 MCF gas w/1370 psi inj press.

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test 10/3, gas lifted 329 BO 819 BW & 1212 MCF gas w/1370 psi inj press. On 24-hr test 10/4, gagas lifted 374 BO, 827 BW & 1524 MCF gas w/1370 psi inj press. OCT 06 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test, gas lifted 307 BO, 825 BW & 1058 MCF gas w/1370 psi inj press. OCT 09 1978

Shell-Brotherson 1-15B4
(Gas Lift)
OCT 10 1978

TD 13,291. PB 13,260. On 24-hr test 10/6, gas lifted 336 BO, 878 BW & 1510 MCF gas w/1370 psi inj press. On 24-hr test 10/7, gas lifted 522 BO, 870 BW & 1530 MCF gas w/1370 psi inj press.

Shell-Ellsworth 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test, gas lifted 564 BO, 875 BW & 2209 MCF gas w/1370 psi inj press. OCT 11 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test, gas lifted 493 BO, 853 BW & 1120 MCF gas w/1360 psi inj press. OCT 12 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test 10/10, gas lifted 407 BO, 888 BW & 1624 MCF gas w/1360 psi inj press. On 24-hr test 10/11, gas lifted 545 BO, 835 BW & 1381 MCF gas w/1360 psi inj press. OCT 13 1978

Shell-Brotherson 1-15B4
(Gas Lift)

TD 13,291. PB 13,260. On 24-hr test, gas lifted 408 BO, 793 BW & 1007 MCF gas w/1310 psi inj press. OCT 16 1978

Shell-Brotherson 1-15B4
(Gas Lift)
OCT 17 1978

TD 13,291. PB 13,260. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
10/13	24	410	686	666	1320
10/14	24	381	711	702	1320

Shell-Brotherson 1-15B4
(Gas Lift) OCT 18 1978

TD 13,291. PB 13,260. On 24-hr test, gas lifted 396 BO, 442 BW & 899 MCF gas w/1320 psi inj press.

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. Gauge [illegible] available.
(Gas Lift) OCT 19 1978

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. Gauge not available.
(Gas Lift) OCT 20 1978

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. On 24-hr test, gas lifted 417 BO,
(Gas Lift) OCT 23 1978 576 BW & 1020 MCF gas w/1320 psi inj press.

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. On various tests, gas lifted:
(Gas Lift)

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
10/17	24	417	741	926	1320
10/18	24	462	723	956	1350
10/19	24	432	766	996	1360
10/20	24	389	790	959	1360
10/21	24	439	733	1020	1340

OCT 24 1978
OCT 24 1978

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. Gauge not available.
(Gas Lift) OCT 25 1978

Shell-Brotherson 1-15B4 TD 13,291. PB 13,260. 9/78 before work, 348 BO, 694 BW
(Gas Lift) OCT 26 1978 & 377 MCF gas. 10/23/78 after work, prod 412 BO, 719 BW &
397 MCF gas.
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.)

RECEIVED APR 5 1979 DIVISION OF OIL, GAS & MINING

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: 1601' FNL & 1229' FEL Section 15

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Altamont

8. FARM OR LEASE NAME: Brotherson

9. WELL NO.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4 NE/4 Section 15-T2S-R4W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272 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) CO liner & spt acid			[X]
(Other) CO liner & spt acid			[X]				

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

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

See attachment

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

SIGNED L. Plantz TITLE Div. Opers. Engr. DATE 4/2/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attach for info

*See Instructions on Reverse Side

CO LINER & SPOT ACID — ALTAMONT

SHELL OIL COMPANY — LEASE BROTHERSON — WELL NO. 1-15B4

DIVISION WESTERN — ELEV 6272 KB

FROM: 2/14 - 3/28/79 — COUNTY DUCHESNE — STATE UTAH

UTAH
ALTAMONT

Shell-Brotherson 1-15B4 "AFE" (CO liner & spot Acid) FEB 14 1979	TD 13,291. PB 12,612. AFE #577207 provides funds to CO 5" liner & spot 4000 gal acid. 2/12 Bled off csg & bled 400# press off tbg. Pmp'd 50 bbls hot prod wtr dn tbg. Released 7: fullbore pkr & pmp'd 200 bbls hot prod wtr dn tbg to kill well. Pulled 64'; well came in. Pmp'd 150 bbls & pulled 128'; well started blw'g. Pmp'd 125 bbls prod wtr & SION. POOH w/tbg. Run 4-1/8" mill.
Shell-Brotherson 1-15B4 (CO liner & spot acid) FEB 15 1979	TD 13,291. PB 12,612. 2/13 TP 200; CP 500. Pmp'd 200 bbls hot prod wtr dn csg & tbg. POOH. Made 4½" mill & RIH to 10,409. SDON.
Shell-Brotherson 1-15B4 (CO liner & spot acid)	TD 13,291. PB 12,612. 2/14 TP 10 psi; CP 400. Cont'd in hole. Tagged liner @ 10,988. Pmp'd 200 bbls prod wtr dn csg; no returns. Began drlg & mill stuck. Pmp'd 400 bbls dn csg; no returns. Drld to 11,085 & pmp'd 1650 bbls prod wtr w/no returns. Spotted 500 gal 15% HCl @ 11,085 w/62 bbls prod wtr FEB 16 1979
Shell-Brotherson 1-15B4 (CO liner & spot acid) FEB 20 1979	TD 13,291. PB 12,612. 2/15 CP 400 psi; TP 0. Cont'd to CO 5" liner from 11,085. Well would not circ @ 4 B/M w/o press. Drld hard from 11,085-11,271 then ran easily to 11,920. Pmp'd total of 2300 bbls prod wtr. SDON.
Shell-Brotherson 1-15B4 (CO, liner & spot acid)	TD 13,291. PB 12,612. On 24-hr test 2/25, gas lifted: 57 BO, 413 BW, 944 Gas Prod, 907 Gas Inj w/250 psi TP. MAR 2 1979

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 21 1979

TD 13,291. PB 12,612. 2/16 TP 0 psi; CP 200. CO to 12,600'. Started to pull up one jt to spot acid & stuck pipe @ 12,583. Pulled up to 12,228 & spotted 27 bbls 15% HCl. Pulled up to 11,514 & spotted 28 bbls 15% HCl. Pulled up to 10,521 & bullheaded 28 bbls 15% HCl w/35 bbls prod wtr behind; continued out of hole. LD work string & pmp'd 2000 bbls prod wtr w/no returns. 2/17 TP 0 psi; CP 200. POOH w/4-1/8" mill. TIH w/prod string placing camco mandrels as per tbg detail. Set 7" lock-set pkr @ 10,493 w/11,000 tension. Installed 5000# tree & turned well over to production.

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 22 1979

TD 13,291. PB 12,612. On 24-hr test 2/19, gas lifted 24 BO, 443 BW, Gas Prod 813, Gas Inj 673 w/200 TP.

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 23 1979

TD 13,291. PB 12,612. On 24-hr test 2/20, gas lifted 71 BO, 33 BW, 847 Gas Prod, 703 Gas Inj w/200 TP.

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 26 1979

TD 13,291. PB 12,612. On 24-hr test 2/21, gas lifted 39 BO, 196 BW, 805 Gas Prod, 724 Gas Inj w/240 TP.

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 27 1979

TD 13,291. PB 12,612. Gauge not available.

Shell-Brotherson 1-15B4
(CO liner & spot acid)

FEB 28 1979

TD 13,291. PB 12,612. On 24-hr test 2/22 gas lifted 0 BO, 455 BW, 850 Gas Prod, 706 Gas Inj'd w/250 TP.

Shell-Brotherson 1-15B4
(CO, liner & spot acid)

MAR 1 1979

TD 13,291. PB 12,612. On various tests gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
2/23	24	33	422	662	569	250
2/24	24	28	419	805	610	220

Shell-Brotherson 1-15B4
(CO liner & spot acid)

MAR 5 1979

TD 13,291. PB 12,612. On 24-hr test 2/26, gas lifted: 52 BO, 429 BW, 1068 Gas Prod, 800 Gas Inj w/300 psi TP.

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 6 1979

TD 13,291. PB 12,612. On 24-hr test 2/27, gas lifted: 82 BO, 474 BW, 1010 Gas Prod & 864 Gas Inj w/250 psi TP.

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 7 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/1	24	113	476	1100	1689	300
3/2	24	120	431	944	714	250

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 8 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/3	24	103	396	745	581	200
3/4	24	94	489	787	760	250

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 9 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/5	24	102	442	1080	731	225
3/6	24	119	392	725	572	225

9 Shell-Brotherson 1-15B4 (CO liner & spot acid)

TD 13,291. PB 12,612. On 24-hr test 3/7 gas lifted 721 BO, 649 BW, 985 Gas Prod & 762 Gas Inj w/250 psi TP.

Shell-Brotherson 1-15B4 (CO liner & spot acid)

TD 13,291. PB 12,612. Gauge not available.
MAR 13 1979

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 14 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/8	24	144	448	730	607	225
3/9	24	157	499	984	766	250
3/10	24	155	516	881	682	250

Shell-Brotherson 1-15B4 (CO liner & spot acid)
MAR 15 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/11	24	155	453	850	617	300
3/12	24	148	474	1039	742	375

Shell-Brotherson 1-15B4 (CO liner & spot acid)

TD 13,291. PB 12,612. Gauge not available.
MAR 16 1979

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 19 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/13	24	149	454	1039	780	375
3/14	24	144	384	970	796	375

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 20 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/15	4	15	16	135	93	250
3/16	21	183	349	910	633	300

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 21 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/17	24	221	585	888	606	250
3/18	24	292	943	1227	873	220

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 22 1979

TD 13,291. PB 12,612. On 24-hr test 3/19, gas lifted 214 BO, 664 BW, 1162 Gas Prod & 669 Gas Inj w/200 psi TP.

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 23 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/20	24	203	615	1039	594	200
3/21	24	223	724	750	649	200

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 26 1979

TD 13,291. PB 12,612. On 24-hr test 3/22, gas lifted: 202 BO, 735 BW, 820 Gas Prod & 728 Gas Inj w/200 psi TP.

Shell-Brotherson 1-15B4
(CO liner & spot acid)
MAR 27 1979

TD 13,291. PB 12,612. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
3/23	24	217	692	925	673	200
3/24	24	210	591	820	695	200

Shell-Brotherson 1-15B4
(CO liner & spot acid)

TD 13,291. PB 12,612. On tests prior to work in Dec well avg'd 196 BO, 569 BW & 545 Gas Inj. In Jan well avg'd 172 BO, 376 BW & 485 Gas Inj. On tests after work in Feb well avg'd 65 BO, 441 BW & 777 Gas Inj. During 1st part of March well avg'd 132 BO, 399 BW & 639 Gas Inj. MAR 28 1979
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 [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: Shell Oil Company

3. ADDRESS OF OPERATOR: ATTN: L.L. Litzen, Rm 6468 WCK
P.O. Box 831, Houston, Texas 77001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1601' FNL & 1229' FEL, Section 15

5. LEASE DESIGNATION AND SERIAL NO.: Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Altamont

8. FARM OR LEASE NAME: Brotherson

9. WELL NO.: 1-15B4

10. FIELD AND POOL, OR WILDCAT: Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/4, NE/4, Section 15, T2S, R4W

12. COUNTY OR PARISH: Duchesne

13. STATE: Utah

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272'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	[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
OCT 28 1982
DIVISION OF
OIL, GAS & MINING

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

W. F. N. KELLDORF
SIGNED _____ TITLE Div. Prod. Eng. DATE 10/22/82

(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 398
ISSUED 09/22/82

WELL:	BROTHERSON 1-15B4
LABEL:	FIRST REPORT
AFE:	574987
FOREMAN:	KENT RUST
RIG:	WOW 22
OBJECTIVE:	CO PERF. AND STIM.
AUTH. AMNT:	175000
DAILY COST:	4350
CUM COST:	4350
DATE:	8-12-82
ACTIVITY:	AFE 574987 PROVIDES FUNDS FOR 175000 TO CLEAN OUT
02	PERFORATE AND STIMULATE THE WASATCH.
03	MIRU DELSCO AND PULL COLLAR STOP. CUT WAX. RIG
04	DOWN DELSCO. PUMP 100 BBLS. FORMATION WATER DOWN
05	TBG. REMOVE WELLHEAD AND PUT ON BOP RELEASE PKR. AND
06	START OUT OF HOLE. PKR. IS DRAGGING HARD. SDON.
07	DATE 8-13-82 STATUS CO 7 INCH.
LABEL:	-----
DAILY COST:	9800
CUM COST:	14150
DATE:	8-13 THRU 8-18-82
ACTIVITY:	8-13-82 COSTS GIVEN IN HEADING. ACTIVITY: F.C.O.O.H.
02	W/TBG AND PKR. RIH W/6 1/8 INCH MILL 7 INCH SCRAPPER
03	AND CO TOOL. CLEANED OUT 7 INCH TO 10789 FT. LINER
04	TOP. S.O.O.H. W/MILL SCRAPPER AND CO TOOL. S.D.O.N.
05	8-14-82 ACTIVITY: F.C.O.O.H. W/6 INCH MILL 7 INCH
06	CSG. SCRAPPER AND CO TOOL. RIH W/4 1/8 INCH MILL
07	5 INCH CSG. SCRAPPER AND CO TOOL. PICKED UP
08	58 JTS. 2 7/8 INCH OFF PIPE RACKS. HIT A FEW
09	BRIDGES OF SCALE WHILE GOING THRU 5 INCH LINER. MADE
10	HOLE TO 12594 PLUS OR MINUS. MILLED FOR 3 HRS. AND
11	COULD NOT MAKE ANY MORE HOLE. S.D.O.N. 8-15-82
12	SUNDAY. 8-16-82 DAILY COST 3850 CUM COST 18000
13	STATUS: POOH. ACTIVITY: POOH W/4 1/8 INCH MILL 5
14	INCH CSG. SCRAPPER AND CO TOOL. LAID DOWN 58 JTS.
15	2 7/8 INCH ON PIPE RACKS. FOUND REMAINS OF CEMENT IN
16	CO TOOL. RIH W/30 STDS. TBG. FOR KILL PIPE. S.D.O.N.
17	8-17-82 DAILY COST 3150 CUM COST 21150 STATUS: PERF.
18	ACTIVITY: R.U. OWP. RIH W/3 1/8 INCH CSG. GUN. COULD
19	NOT GET PAST 12571 FT. POOH W/3 1/8 INCH GUN. SHORTEN

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 398
ISSUED 09/22/82

20	CSG. GUN FROM 37 FT. TO 8 FT. TO TRY AND GET PAST
21	TIGHT SPOT. RIH W/8 FT. OF 3 1/8 INCH CSG GUN. TD AT
22	12571 FT. POSSIBLE DOG LEG IN GAS AT 12571 FT.
23	COULD NOT SHOOT HOLES AT 12612 12607 12594 12579
24	FT. MADE 5 RUNS W/3 1/8 INCH CSG GUN. W/3 JSPF 120
25	DEGREE PHASING W/13.5 GRAM CHARGES. SHOT FROM 12557 FT.
26	TO 11340 FT. NO PSI OR FLUID LEVEL SEEN. S.D.O.N.
LABEL:	-----
DAILY COST:	29250
CUM COST:	50400
DATE:	8-18 AND 8-19-82
ACTIVITY:	8-18-82 ACTIVITY: MADE 2 RUNS W/3 1/8 INCH
02	CSG. GUNS. SHOT FROM 11322 FT. TO 10798 FT. MADE
03	1 RUN W/4 INCH CSG. GUN. SHOT FROM 10778 FT. TO 10535 FT.
04	HAD 1 MISFIRE ON 4 INCH GUN. HAD TO RERUN
05	4 INCH GUN. NO INCREASE IN PSI AFTER ANY RUNS.
06	HAD A TOTAL OF 151 SELECTIONS AND 453 HOLES. R.D.
07	OWP. START IN HOLE W/7 INCH MT. STATES PKR. PKR.
08	SET WHILE GOING IN HOLE. HAD TO SAFETY PKR. POOH
09	W/PKR. START IN HOLE W/NEW 7 INCH MT. STATES PKR.
10	S.D.O.N.
11	8-19-82 STATUS: ACIDIZE.
LABEL:	-----
DAILY COST:	52950
CUM COST:	103350
DATE:	8-19-82
ACTIVITY:	FINISH IN HOLE W/ 7 INCH. PKR. SET PKR. AT 10500 FT.
02	WITH 20000 LB. TENSION. REMOVE BOP AND PUT ON 10000 LB.
03	TREE. RIG UP NOWSCO. ACIDIZE ACCORDING TO PROG.
04	PUMPED 25000 GAL. OF 7 1/2 % HCL WHEN BLEW HOLE
05	A HOLE IN TBG. SHUT DOWN ACID JOB. REVERSE CIRCULATE
06	ACID OUT OF TBG. RIG DOWN NOWSCO. REMOVE 10000 LB.
07	TREE AND PUT ON BOP. RELEASE PKR. PUMPED 300 BBLS.
08	OF WATER DOWN BACKSIDE. START OUT OF HOLE W/ PKR.
09	SDON.
10	DATE 8-20-82 STATUS HYDRO TEST TBG.
LABEL:	-----
DAILY COST:	3950
CUM COST:	107300

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 398
ISSUED 09/22/82

DATE:	8-21 THRU 8-24-82
ACTIVITY:	8-21-82 COSTS GIVEN IN HEADING. ACTIVITY:
02	FINISH HYDRO TEST TBG. 3 BAD JTS. S.D.O.N.
03	8-22-82 SUNDAY. 8-23-82 STATUS: ACIDIZE. DAILY
04	COST 68350 CUM. COST 175650. ACTIVITY: R.U.
05	NOWSCO. ACIDIZE. MAX PSI 9000 MAX RATE 18.1
06	AVG. PSI 7813 AVG RATE 15.6 MIN. PSI 6625 MIN
07	RATE 13.1 ISIP 0 5 MIN 0 10 MIN 0 15 MIN 0 20 MIN
08	0. CSG. PSI 2500 LBS. BALLS 600 BAF 5000 LBS.
09	ACID 706 BBLS. FLUSH 110 BBLS. TOTAL 816 BBLS.
10	R.D. NOWSCO. R.U. OWP. RAN RA LOG FROM 12600 FT.
11	TO 10500 FT. PULLED OUT OF HOLE W/OWP AND
12	REMOVED WELLHEAD AND PUT ON BOP. WELL CAME IN.
13	CLEANED RIG. S.D.O.N.8-24-82 DAILY COST 4150
14	CUM COST 179800 ACTIVITY: RIH W/TBG. AND GAS LIFT
15	MANDRELS HAD TROUBLE W/LOK SET
16	PKR. CAME OUT OF HOLE W/LOK SET RIH W./MT. STATES
17	7 INCH PKR. S.D.O.N.
LABEL:	-----
DAILY COST:	1185
CUM COST:	180985
DATE:	8-25-82
ACTIVITY:	SET PKR. AT 10507 FT. WITH 20000 LBS. TENSION.
02	PULL BOP. SET WELLHEAD ON AND TURN WELL TO
03	BATTERY. FINAL RIG REPORT.
LABEL:	FINAL REPORT
CUM COST:	180985
DATE:	8-26 THRU 9-1-82
ACTIVITY:	THE RIG MOVED OFF THIS LOCATION ON 8-25-82. THE
02	FOLLOWING TEST DATA IS FOR 24 HRS. UNLESS STATED
03	OTHERWISE. IF THE TBG. PSI AND TBG. AND INJ. CHOKES
04	ARE NOT ENTERED DAILY THEY ARE THE SAME AS THE
05	DAY BEFORE. 8-26-82 241 OIL 285 WTR 981 MCF
06	GAS. 793 INJ 300 TBG PSI 31 TBG CHOKE/8 INJ. 8-27-82
07	200 OIL 254 WTR 867 MCF 586 INJ. 240 TBG PSI
08	8-28-82 224 OIL 283 WTR 944 MCF 598 INJ. 200 TBG
09	PSI 40 TBG CHOKE /8 INJ. 8-29-82 111 OIL 301 WTR
10	930 MCF 541 INJ. 250 TBG PSI. 8-30-82 208 OIL
11	268 WTR 802 MCF 612 INJ. 300 TBG PSI 8-31-82 186
12	OIL 245 WTR 8 02 MCF 541 INJ. 200 TBG PSI 55 TBG CHOKE

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 398
ISSUED 09/22/82

13	8INJ. CHOKE. 9-1-82 185 OIL 261 WTR 761 MCF 5 09 INJ.
14	200 TBG PSI.
15	THIS IS A FINAL REPORT ON THIS LOCATION.

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

PRD4278[illegible]5421

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

MONTHLY OIL AND GAS PRODUCTION REPORT

Duchesne

Operator name and address:

~~UTEX OIL CO.~~
% SHELL WESTERN E&P INC.

[redacted] Operator name change
PO BOX 576
HOUSTON TX 77001
ATTN: P.T. KENT, OIL ACCT.

NOTIC

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)
ELLSWORTH 1-16B4 4301330192 01735 02S 04W 16	WSTC	16	362	545	3344
HANSON TRUST 1-09B3 4301330144 01740 02S 03W 9	GR-WS	21	750	1042	6375
MONSEN 1-27A3 4301330145 01745 01S 03W 27	WSTC	31	1273	2206	326
WINKLER 1-28A3 4301330191 01750 01S 03W 28	WSTC	31	1481	363	3094
SHELL TEW 1-10B5 4301330178 01755 02S 05W 10	WSTC	15	225	1653	322
ELLSWORTH 1-19B4 4301330183 01760 02S 04W 19	WSTC	20	469	618	3730
GOODRICH 1-2B3 4301330182 01765 02S 03W 2	GR-WS	28	841	1612	2766
BROTHERSON 1-15B4 4301330159 01770 02S 04W 15	WSTC	31	2207	608	5598
MYRIN RANCH 1-13B4 4301330180 01775 02S 04W 13	WSTC	22	735	817	3885
EVANS 1-19B3 4301330265 01776 02S 03W 19	WSTC	17	344	431	1457
BROTHERSON 1-22B4 4301330227 01780 02S 04W 22	WSTC	22	772	9687	2609
BIRCH 1-27B5 4301330197 01781 02S 05W 27	WSTC	26	2090	428	776
HANSKUTT 1-23B5 4301330172 01785 02S 05W 23	WSTC	24	517	3600	4664
	TOTAL		12006	23610	51275

OT - 2

Comments (attach separate sheet if necessary)

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

Telephone

Authorized signature

Form OGC-1b

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

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

010930

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.
1-15B4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 15 2S 4W

12. COUNTY OR PARISH
Duchesne

13. STATE

14. PERMIT NO.
43-013-30159

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

UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

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

Utah Account No. N0235

Report Period (Month/Year) 11 / 87

Amended Report ☐

Well Name API Number Entity Location	Producing Zone	Days Oper	Production Volume Oil (BBL)	Gas (MSCF)	Water (BBL)
SHELL TEW 1-10B5 4301330178 01755 02S 05W 10	WSTC				
ELLSWORTH 1-19B4 4301330183 01760 02S 04W 19	WSTC				
ELLSWORTH #2-19B4 4301331105 01761 02S 04W 19	WSTC				
GOODRICH 1-2B3 4301330182 01765 02S 03W 2	GR-WS				
BROTHERSON 1-15B4 4301330159 01770 02S 04W 15	WSTC				
BROTHERSON 2-15B4 4301331103 01771 02S 04W 15	WSTC				
EVANS 1-19B3 4301330265 01776 02S 03W 19	WSTC				
BROTHERSON 1-22B4 4301330227 01780 02S 04W 22	WSTC				
BIRCH 1-27B5 4301330197 01781 02S 05W 27	WSTC				
BROTHERSON #2-22B4 4301331086 01782 02S 04W 22	WSTC				
BIRCH #3-27B5 4301331126 01783 02S 05W 27	WSTC				
HANSKUTT 1-23B5 4301330172 01785 02S 05W 23	WSTC				
MURDOCK 1-34B5 4301330230 01786 02S 05W 34	WSTC				
	TOTAL				

Comments (attach separate sheet if necessary) _____

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

Authorized signature

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

ANR

ANR Production Company
a subsidiary of The Coastal Corporation

c12718

RECEIVED
JAN 25 1988
DIVISION OF
OIL, GAS & MINING

January 19, 1988

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

Attention: Ms. Lisha Romero

N0235

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

N0675

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

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

Very truly yours,

Roger W Sparks

Roger W. Sparks
Manager, Crude Revenue Accounting

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

CC: AWS

CTE:mmw

Lisha,
I 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

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:
7. UNIT AGREEMENT NAME: Altamont
8. FARM OR LEASE NAME: Brotherson
9. WELL NO.: 1-15B4
10. FIELD AND POOL, OR WILDCAT: Altamont
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SE/NE Section 15, 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.)

1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: ANR Production Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1601' FNL & 1229' FEL Section 15

RECEIVED
AUG 10 1989
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.: 43-013-30159

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272' 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)			
(Other) repair casing	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 attached intended workover procedure for the above referenced well to repair collapsed casing.

OIL AND GAS

DRN	RJF
1. JRB	GLH
	SLS
2-TAS	
3. MICROFILM	
4. FILE	

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

SIGNED Brenda W. Swank (Brenda W. Swank) TITLE Regulatory Analyst DATE August 7, 1989

(This space for Federal or State office use)

APPROVED BY ____ TITLE ____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8-15-89
BY: John R. Baza

*See Instructions on Reverse Side

WORKOVER PROCEDURE

BROTHERSON #1-15B4

Section 15, T2S, R4W
Altamont Field
Duchesne County, Utah

WELL DATA

Location:	1601' FNL & 1224' FEL
Elevation:	6272' KB, 6250' GL.
Total Depth:	13,291' PBTD: 12,594'
Casing:	
Surface:	9-5/8" 36#, set @ 6757'
Intermediate:	7" 26# & 29# S-95, set @ 10,920'
Liner:	5" 18# N-80, set @ 13,291'
Casing ID/Drift/Capacity:	
	7" 29# - 6.184"/6.059"/.0371 bbl/ft
	7" 26# - 6.276"/6.151"/.0382 bbl/ft
	5" 18# - 4.276"/4.151"/.0177 bbl/ft
	2-7/8" 6.5# - 2.441"/2.347"/.0325 bbl/ft
Tubing:	2-7/8" 6.5# N-80, set @ 6012'
	ID/Drift/Capacity
	2.441"/2.347", .03250 bbl/ft
Perforations:	Wasatch 10,535-12,594'/1163 holes

PROCEDURE

1. MIRU service rig. POH w/kill string.
2. TIH w/6-1/8" swedge & swedge out tight spot @ 7984'.
3. Perforate 4 squeeze holes @ ±8000'.
4. RIH w/6" washpipe to check casing alignment.
5. Set Howco casing alignment tool across casing part @ 7984' & cement w/200 sx cement.
6. Drill out tool & cement. Pressure test csg to 2000 psi.
7. Circulate off sand and recover Elder packer @ 8487'.
8. Run production equipment.
9. Return well to production.

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

8

5. LEASE DESIGNATION & SERIAL NO.
Patented

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
FEB 01 1990
DIVISION OF OIL, GAS & MINING

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

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

7. UNIT AGREEMENT NAME
N/A

2. NAME OF OPERATOR
ANR Production Company

8. FARM OR LEASE NAME
Brotherson

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

9. WELL NO.
1-15B4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1601' FNL & 1229' FEL (SENE)
At proposed prod. zone

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 15, T2S-R4W

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
43-013-30159	6272' KB	Duchesne	Utah

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

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

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

* Must be accompanied by a cement verification report.

See attached chronological report for the casing repair work performed on the above referenced well.

OIL AND GAS	
	RJF
	GLH
	SLS
1-TAS	
2. MICROFILM	
3. FILE	

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

SIGNED Timothy F. Sciba TITLE Administrative Manager DATE 1-29-90

(This space for Federal or State office use)

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

See Instructions On Reverse Side

(3/89)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-15B4 (REPAIR CSG)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

12/28/89 DO cmt. Tag cmt top @ 6517'. CO cmt to 6778'.
DC: $3,404 TC: $97,510

12/29/89 CO 7" csg. Press tst 7" csg to 2000#. OK. CO 7" csg from 6778' to 7823'. Circ hole clean.
DC: $2,858 TC: $100,368

1/2/90 POOH w/6-1/8" bit. Well flwg back load wtr. CO 7" csg from 7823' to 7976'. Circ hole clean. Press tst 7" csg to 2500#. Bled off 300# / 1/2 min. Start POOH w/6-1/8" bit. Swabbing blk oil from csg.
DC: $3,580 TC: $103,948

1/3/90 Prep to run csg insp logs. Circ hole clean. Recovering heavy blk oil. POOH w/6-1/8" bit.
DC: $3,071 TC: $107,019

1/4/90 POOH w/csg scraper. Run CBL log from 7811' to 6100'. Unable to run PAL log due to heavy blk oil. RIH w/7" csg scraper to 7823'.
DC: $3,737 TC: $110,756

1/5/90 Fish logging tool. Circ hole clean. POOH w/7" csg scraper. RIH w/PAL log to 6772'. Set dwn. POOH & remove centralizer. RIH w/PAL log to 6772'. Tool stuck. Pull out of rope socket.
DC: $3,247 TC: $114,003

1/8/90 POOH w/remaining fish. RIH w/5-3/4" x 2-5/16" OS & BHA. Latch fish @ 6777'. POOH w/BHA. Rec'd logging tool. RIH w/3.744" spear & BHA. Tagged centralizer. Start POOH.
DC: $10,796 TC: $124,799

1/9/90 Prep to shut in for eval. POOH w/spear. Rec'd 1/2 of centralizer. LD fishing tools. RIH w/2-7/8" workstring to 7976'.
DC: $3,806 TC: $128,605

1/10/90 Fin RIH w/2-7/8" tbg. Shut well in for eval. LD 2-7/8" workstring. RIH w/2-7/8" prod string.
DC: $3,037 TC: $131,642

1/11/90 Shut in for eval. Fin RIH w/2-7/8" prod string. Heavy blk oil in hole. Landed tbg @ 5991'. ND BOPS, NU WH. RDSU. Final report.
DC: $1,993 TC: $133,635

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-15B4 (REPAIR CSG)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 50.0000% ANR AFE: 62839
TD: 13,291'
CSG: 5" LINER @ 10,789'-13,291' (WASATCH)
PERFS: 10,535'-12,594' (WASATCH)
CWC(M$): $162.0

12/6/89 Circ 9-5/8" csg. MIRU. SITP 225#. ND WH. NU BOPS. Circ hole clean.
DC: $3,022 TC: $3,022

12/7/89 POOH w/2-7/8" tbg. Circ hole w/390 BW @ 2000# thru 9-5/8" csg.
DC: $4,526 TC: $7,548

12/8/89 Swage 7" csg. POOH w/2-7/8" tbg. RIH w/5-1/2" csg swage & BHA to 7900'.
DC: $5,766 TC: $13,314

12/11/89 Swage 7" csg. Circ hole. Cont RIH w/5-1/2" csg swage to 8352'. POOH. Start RIH w/6-1/8" csg swage.
DC: $5,138 TC: $18,452

12/12/89 Circ hole. Spot 10 bbls diesel. RIH w/6-1/8" csg swage to 8451'. Circ hole w/400 BW. Attempt to circ thru 9-5/8" csg @ 1700# w/little return.
DC: $5,546 TC: $23,998

12/13/89 TIH w/2-7/8" tbg. Circ up 9-5/8" x 7" csg annulus. POOH w/tbg. RU wireline truck & perf 4 sq holes @ 8000'. PU 1-jt 6" wash pipe w/bull nose on 2-7/8" tbg & TIH.
DC: $9,532 TC: $33,530

12/14/89 Set csg alignment tool & cmt sqz. Fin RIH w/6" WP thru 7" csg part @ 7984'. OK. POOH. Start RIH w/6-1/8" x 10' csg alignment tool.
DC: $4,772 TC: $38,302

12/15/89 RIH w/6-1/8" bit. Fin RIH w/6-1/8" x 10' alignment tool on 7" CICR. Set 7" CICR @ 7976'. Est inj @ 1.7 BPM @ 1700#. Cmt csg leak @ 200 sxs Cl "G" cmt. Left 3 bbls cmt on CICR. POOH w/150' - 2-7/8" tbg. Rev out w/131 BW. POOH w/setting tool. WOC.
DC: $22,346 TC: $60,648

12/18/89 POOH w/7" pkr. SICP 100#. Est inj @ 1-1/2 BPM @ 1400#. RIH w/7" pkr. Hot oil & circ csg clean. Tag cmt top @ 7816'. Isolate csg leak @ 7428'-7736'.
DC: $3,760 TC: $64,408

12/19/89 Isolate 7" csg leak. Cont isolating csg leak. Circ 9-5/8" csg @ 1/4 BPM @ 2100#. Pmp 500 gals xylene. Circ 9-5/8" csg @ 4 BPM @ 750#.
DC: $5,692 TC: $70,100

12/20/89 Prep to sqz csg leak. Press tst 7" csg to 2000# above 6620'. OK. Isolated top of csg leak @ 6808'. ND BOPS.
DC: $2,653 TC: $72,753

12/21/89 RIH w/6-1/8" bit. Cmt csg leak w/400 sx Lite + 200 sx Cl "G" cmt to sfc. WOC.
DC: $11,673 TC: $84,426

12/22/89 CO 7" csg. SITP 250#. NU BOPS. RIH w/6-1/8" bit & tag cmt top @ 6504'. CO 7" csg to 6744'. Circ hole clean.
DC: $3,464 TC: $87,890

12/27/89 CO 7" csg. CO 7" csg to 6766'. Circ hole clean. Est inj @ 1 BPM @ 1800#. CO 7" csg to 7148'. Spot 100 sxs Cl "G" cmt plug @ 6837'. POOH to 6096'. Sqzd 11 bbls cmt to 2500#. Rev out. WOC.
DC: $6,216 TC: $94,106

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION & SERIAL NO.	
Patented	

SUNDRY NOTICES AND REPORTS ON WELLS

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
N/A	

RECEIVED
MAY 02 1990
DIVISION OF
OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER	7. UNIT AGREEMENT NAME
	N/A
2. NAME OF OPERATOR: ANR Production Company	8. FARM OR LEASE NAME: Brotherson
3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749	9. WELL NO.: 1-15B4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1601' FNL & 1229' FEL (SENE) At proposed prod. zone	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 15, T2S-R4W

14. API NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY	13. STATE
43-013-30159	6272' KB	Duchesne	Utah

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

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

APPROX. DATE WORK WILL START 5-10-90

DATE OF COMPLETION _____

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

* Must be accompanied by a cement verification report.

See the attached proposed procedure to plug and abandon the subject well.

OIL AND GAS
DRN | RJF
JRB ✓ | GLH
DTS | SLS

2-TAS
3. MICROFILM ✓
4- FILE

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

SIGNED Timothy F. Sciba TITLE Administrative Manager DATE May 1, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See attachment.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 5-14-90
BY: John R. Baza

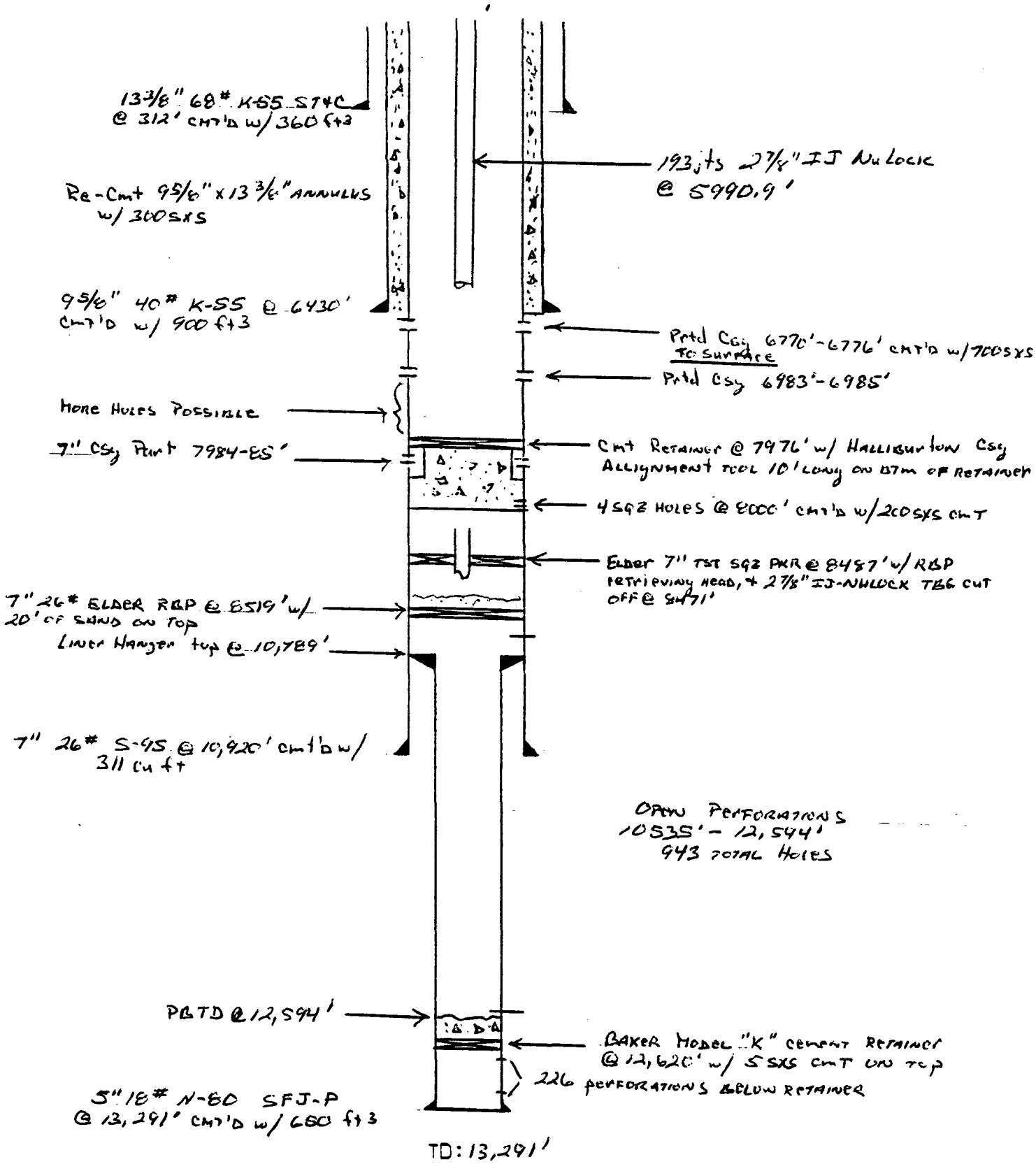
See Instructions On Reverse Side

(3/89)

ESENT WELLBORE SCHEMATIC

S.C. Prutch

Brotherson #1-15B4
AS OF
JAN 19, 1990



PLUG AND ABANDONMENT PROCEDURE

Brotherson #1-15B4
Section 15, T2S, R4W
Duchesne County, Utah

WELL DATA

Location:	1601' FNL & 1229' FEL, Section 15, T2S, R4W
Elevation:	6272' KB, 6250' GL
Total Depth:	13,291' PBTD
Casing:	13-3/8" 68# K-55 ST&C @ 312'
	9-5/8" 40# K-55 ST&C @ 6430'
	7" 26# S-95 LT&C @ 10,920'
	5" 18# N-80 SFJ-P from 10,789'-13,291'
Tubing:	2-7/8" N-80 6.5#/ft IJ Nu-Lock @ 5967'

Tubular Data:

Description	ID	Drift	Capacity	Burst	Collapse
13-3/8" 68# K-55	12.415"	12.259"	0.1497 B/F	3450 psi	1950 psi
9-5/8" 40# K-55	8.835"	8.679"	0.0758 B/F	3950 psi	2570 psi
7" 26# S-95	6.276"	6.151"	0.0382 B/F	8600 psi	5870 psi
5" 18# N-80	4.276"	4.151"	0.177 B/F	10140 psi	10490 psi

PERFORATION AND TREATMENT HISTORY

February 1973	Perforated 10,936'-13,244' (61 holes). Acidize w/40,000 gals 15% HCl
May 1975	Acid wash 10,900'-12,750' w/1722 gals 15% HCl
August 1975	Sand back from 13,291'-12,700'
March 1976	Acid wash 10,936'-12,710' w/4000 gals 15% HCl
June 1976	CO to 13,263'. Perf 13,038'-13,249', 1 SPF, 211 holes Acidize 12,867'-13,249' (218 holes) w/27,720 gals 7-1/2% HCl
September 1976	Baker Model K cement retainer @ 12,620', spotted 5 sacks CL "G" cmt on top of retainer. New PBTD 12,594'. Spot 1500 gal 15% HCl @ 12,600'. Install gas lift.
October 1977	Perforate 10,535'-12,594' (444 holes). Acidize from 10,535'-12,611' w/46,000 gals 7-1/2% HCl
September 1978	Acid wash w/2700 gals 15% HCl
February 1979	Acid wash w/4000 gals 15% HCl
August 1982	Perforate 10,535'-12,557' (453 holes). Acidize all perfs w/54,650 gals 7-1/2% HCl
September 1985	Acid wash w/4000 gals 15% HCl. Install hydraulic pump.
April 1986	Shut in w/parted csg
January 1990	Set Halliburton csg allignment tool @ 7976'. Unsuccessful attempt to repair casing.

PROCEDURE

1. MIRU service unit. NU BOPE. Lower tbg to 7976'. Spot 310 sxs of cmt on top of cmt retainer @ 7976'. POOH w/tbg.

2. Spot 50 sxs cement plug (200 ft) from 200' to surface.

3. Cut off 7", 9-5/8" and 13-3/8" csg 5' below ground.

4. Press test 9-5/8" x 7" annulus. If necessary pump btm in annulus from 200' to surface.

5. Run 1" pipe and cement 9-5/8" x 13-3/8" annulus from 200' to surface (approx 50 sxs).

6. Set dry hole marker w/necessary inscription.

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

ANR Production Company
Brotherson #1-15B4 Well
Section 15, T. 2S, R. 4W
Duchesne County, Utah
May 14, 1990

Reference document: Sundry notice dated May 1, 1990.

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

OI58/145

Division of Oil, Gas and Mining

PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

[X] **Well File** Brotherson # 1-15 B4 [ ] **Suspense** (Return Date) _____ (To - Initials) _____ [ ] **Other** _____

(Location) Sec 15 Twp 2S Rng 4W

(API No.) 43-013-30159

1. Date of Phone Call: 7-30-90 Time: 10:15 am

2. DOGM Employee (name) John Baza (Initiated Call [ ])
Talked to:

Name Marvin Bozart (Initiated Call [X]) - Phone No. (—) 454-3394

of (Company/Organization) Coastal O&G

3. Topic of Conversation: Modification of plugging procedure.

4. Highlights of Conversation:

1. He will increase volume of first cement plug to 350' to bring cement back to 6330'.
2. He will spot balanced plug of 100' @ 3000' inside 7" csg.

MICROFICHE

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

COMPANY: ANR. Prod. Co.

WELLNAME: Brotherson 1-15 B4 API# 43-013-30159

SE/NE SECTION: 15 TWP: 2 S. RANGE: 4 W

INSPECTOR: John BERRIER TIME: 7:30 AM. DATE: 8-7-90

REPRESENTATIVE: Marvin Bozarth PUSHER: Western Oil well service Co Harold Crandall

OPERATIONS: Running Tbg - Prep to P&A.

SPUD DATE: _____ DEPTH: _____

DRILLING AND COMPLETIONS:

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

PLUGGING AND ABANDONMENTS:

PLUG TYPE	INTERVAL
350 sxs. Neat Cmt	5942 - 7800'
50 sxs. " "	3200 - 3266
75 sxs " "	Surf - 350'

PLUGS TESTED: Bottom Plug - 5942-7800 HOW Press. Test w/ Western - WOC 3 hrs.

MARKER: ____ SURFACE ✓ PLATE OK on 7" Csg Stub. in Csg head

RECLAMATION:

_____ CONTOUR _____ RIP _____ REHAB

LEGEND: (Y)-YES (P)-PROBLEM (U)-UNKNOWN (BLANK)-NOT APPICABLE

REMARKS: 8-7-90 - Running Tbg. 8-8- Set Bottom and Center Plug. 8-9- Set top Plug. Press tested Bottom plug to 1600 psi. Held OK. P&A Schematic attached.

APPROVED BY _____ HOW _____ DATE _____

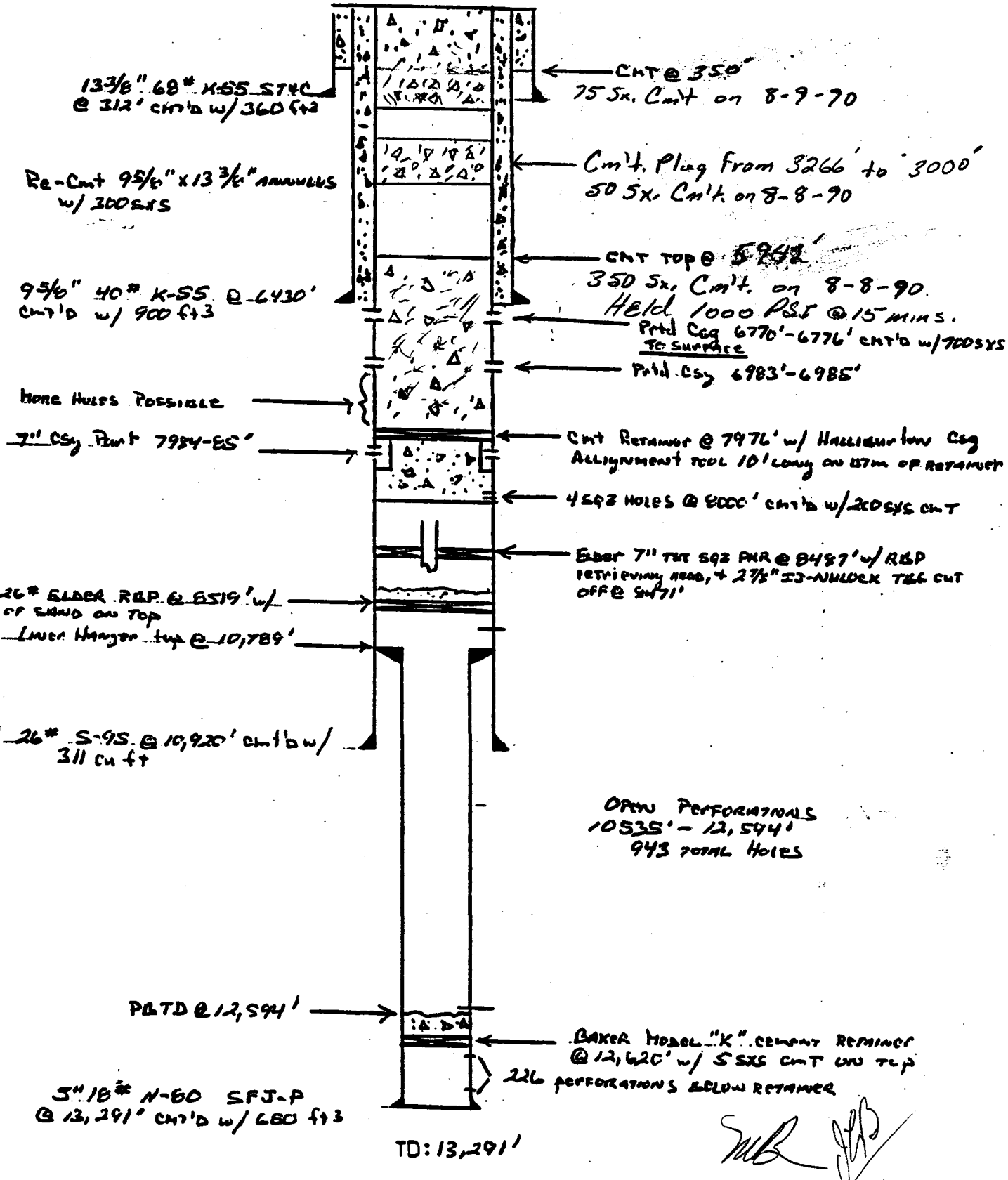
PRESENT WELLBORE SCHEMATIC

Brotherson #1-15B4

AS OF

Aug. 9, 1990

P+A Schematic



WOW #20

COASTAL OIL & GAS
MORNING REPORT

DATE 8-8-90

LEASE & WELL Brotherson 1-15B4 DRILLING FOREMAN Marvin Bozarth DAYS SINCE RELIEVED 3

FIELD/PROSPECT Altamont COUNTY Duchesne STATE Utah

DISTRICT Denver REPORT TAKEN BY: MB SPUD DATE: DAYS SINCE SPUDDED

T.D. FT. DRLG. PROGRESS FT. IN HRS. - " CSG@ 5" 18# PBTD FT

ACTIVITY @ REPORT TIME POOH L.D. 2⅞" Tbg.

MICROFICHE

HOURS **ACTIVITY LAST 24 HOURS** 6:00 a.m. — 6:00 a.m.

7AM- Circ. hole w/ 275° Wtr. Circ. out 200 Bbls. heavy oil & Wtr.) Tally, PU. & RIH w/ 91 Jts. 2⅞" Tbg., tagged @ 7816'- Pulled EOT to 7800'- Circ. hole w/ 275° Wtr. - R.D. hot oiler - R.U. Western - Mix & spot 350 Sx. 71 Bbls. Cm't. slurry to 7800'- Cm't. top @ 5942'- POOH L.D. 82 Jts. 2⅞" Tbg., EOT @ 5300'- Reverse out w/ 45 Bbls. Wtr. - Press. tested to 1000 PSI For 15 Mins., held - POOH L.D. 65 Jts. 2⅞" Tbg., EOT @ 3266'- Mix & spot 50 Sx. 10 Bbls. Cm't. slurry to 3266'- POOH L.D. 20 Jts. 2⅞" Tbg.- EOT @ 2650'- Reverse out w/ 23 Bbls. Wtr. - SWI & SDFN @

DRILLING/COMPLETION COSTS

CODE NO.	ITEM	COST DAILY	COST CUMULATIVE
110	ROADS & LOCATIONS		
120-125	CONTRACTOR CHARGES FOOTAGE, DAY WORK, COMP., WO	1448	3893
130	MUD & CHEMICALS		
135-136	CEMENTING SERVICE & FLOAT EQUIPMENT	6332	6332
140	ELECTRIC LOGGING (OPEN HOLE)		
141	CORING, DST, FMT		
142	MUD LOGGING		
145	FISHING TOOLS & SERVICES		
146	WATER	2028	3348
146	FUEL		
146	BITS		
147	EQUIPMENT RENTALS	110	430
175	TRUCKING		839
181	BHP, GOR, POTENTIAL TESTS		
183	PERF. AND CASED HOLE LOGS		
184	ACIDIZING, FRACTURING, ETC.		
	MISC. LABOR & SERVICES Willies	572	1592
190	SUPERVISION	350	1050
	TOTAL INTANGIBLES	10840	17484
200	**TOTAL TANGIBLES (CSG.,ETC.)**		
	TOTAL COSTS		

TANGIBLE ITEMS CHARGED TODAY: (DESCRIBE)

DRILLING MUD PROPERTIES

WT. (#/GAL) VIS (SEC.) F.L. 100# (cc) HIGH TEMP. F.L. @ 300 PSI P.V.(CP) Y.P. (LB/100 FT²)

% OIL % LCM % SOLIDS ES/pH ALK.:P_f Ex·Lm. CL (PPM)

OWR/Ca GELS (LB/100 FT²): 0" 10" CAKE (32 ND") MBT LB/BBL

PUMP DATA:

NO. 1: MODEL LINER SIZE X " SPM GPM PUMP PRESS

NO. 2: MODEL LINER SIZE X " SPM GPM PUMP PRESS

DRILLING STRING:

D.P. SIZE & TYPE D.C. THD NO. D.C. LENGTH O.D. I.D.

EFF. WT. OF D.C. BHA

BIT RECORD:

BIT NO.	SIZE	MFGR.	TYPE	SERIAL NO.	JETS 32nd 1	2	3	DEPTH OUT	TOTAL THIS BIT FEET	HRS.	FT./HR.	CUM. HRS.	COND. DULL T	B	G

PLUG AND ABANDONMENT PROCEDURE

Brotherson #1-15B4
Section 15, T2S, R4W
Duchesne County, Utah

WELL DATA

Location:	1601' FNL & 1229' FEL, Section 15, T2S, R4W
Elevation:	6272' KB, 6250' GL
Total Depth:	13,291' PBTD
Casing:	13-3/8" 68# K-55 ST&C @ 312'
	9-5/8" 40# K-55 ST&C @ 6430'
	7" 26# S-95 LT&C @ 10,920'
	5" 18# N-80 SFJ-P from 10,789'-13,291'
Tubing:	2-7/8" N-80 6.5#/ft IJ Nu-Lock @ 5967'

Finals (P&A 12-Nov, 89-90

Tubular Data:

Description	ID	Drift	Capacity	Burst	Collapse
13-3/8" 68# K-55	12.415"	12.259"	0.1497 B/F	3450 psi	1950 psi
9-5/8" 40# K-55	8.835"	8.679"	0.0758 B/F	3950 psi	2570 psi
7" 26# S-95	6.276"	6.151"	0.0382 B/F	8600 psi	5870 psi
5" 18# N-80	4.276"	4.151"	0.177 B/F	10140 psi	10490 psi

PERFORATION AND TREATMENT HISTORY

February 1973	Perforated 10,936'-13,244' (61 holes). Acidize w/40,000 gals 15% HCl
May 1975	Acid wash 10,900'-12,750' w/1722 gals 15% HCl
August 1975	Sand back from 13,291'-12,700'
March 1976	Acid wash 10,936'-12,710' w/4000 gals 15% HCl
June 1976	CO to 13,263'. Perf 13,038'-13,249', 1 SPF, 211 holes Acidize 12,867'-13,249' (218 holes) w/27,720 gals 7-1/2% HCl
September 1976	Baker Model K cement retainer @ 12,620', spotted 5 sacks CL "G" cmt on top of retainer. New PBTD 12,594'. Spot 1500 gal 15% HCl @ 12,600'. Install gas lift.
October 1977	Perforate 10,535'-12,594' (444 holes). Acidize from 10,535'-12,611' w/46,000 gals 7-1/2% HCl
September 1978	Acid wash w/2700 gals 15% HCl
February 1979	Acid wash w/4000 gals 15% HCl
August 1982	Perforate 10,535'-12,557' (453 holes). Acidize all perfs w/54,650 gals 7-1/2% HCl
September 1985	Acid wash w/4000 gals 15% HCl. Install hydraulic pump.
April 1986	Shut in w/parted csg
January 1990	Set Halliburton csg allignment tool @ 7976'. Unsuccessful attempt to repair casing.

PROCEDURE

1. MIRU service unit. NU BOPE. Lower tbg to 7976'. Spot ~~310~~ 350 sxs of cmt on top of cmt retainer @ 7976'. POOH w/tbg. 50 SXS @ 3000
2. Spot ~~50~~ 75 sxs cement plug (200 ft) from ~~200~~ 350' to surface.
3. Cut off 7", 9-5/8" and 13-3/8" csg 5' below ground.
4. Press test 9-5/8" x 7" annulus. If necessary pump btm in annulus from 200' to

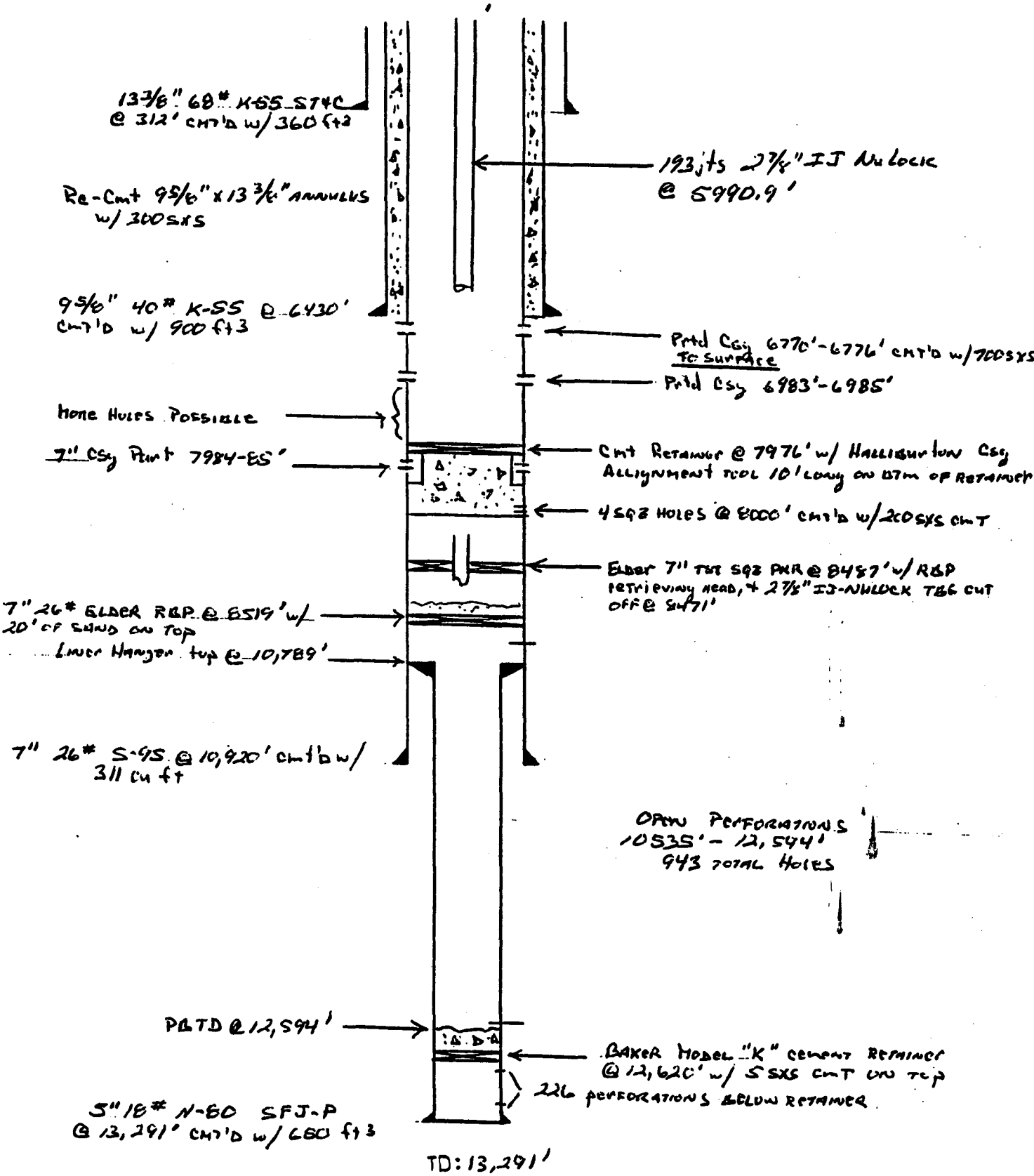
PRESENT WELLBORE SCHEMATIC

Brotherson #1-15B4

AS OF

JAN 19, 1990

S.C. Frutch

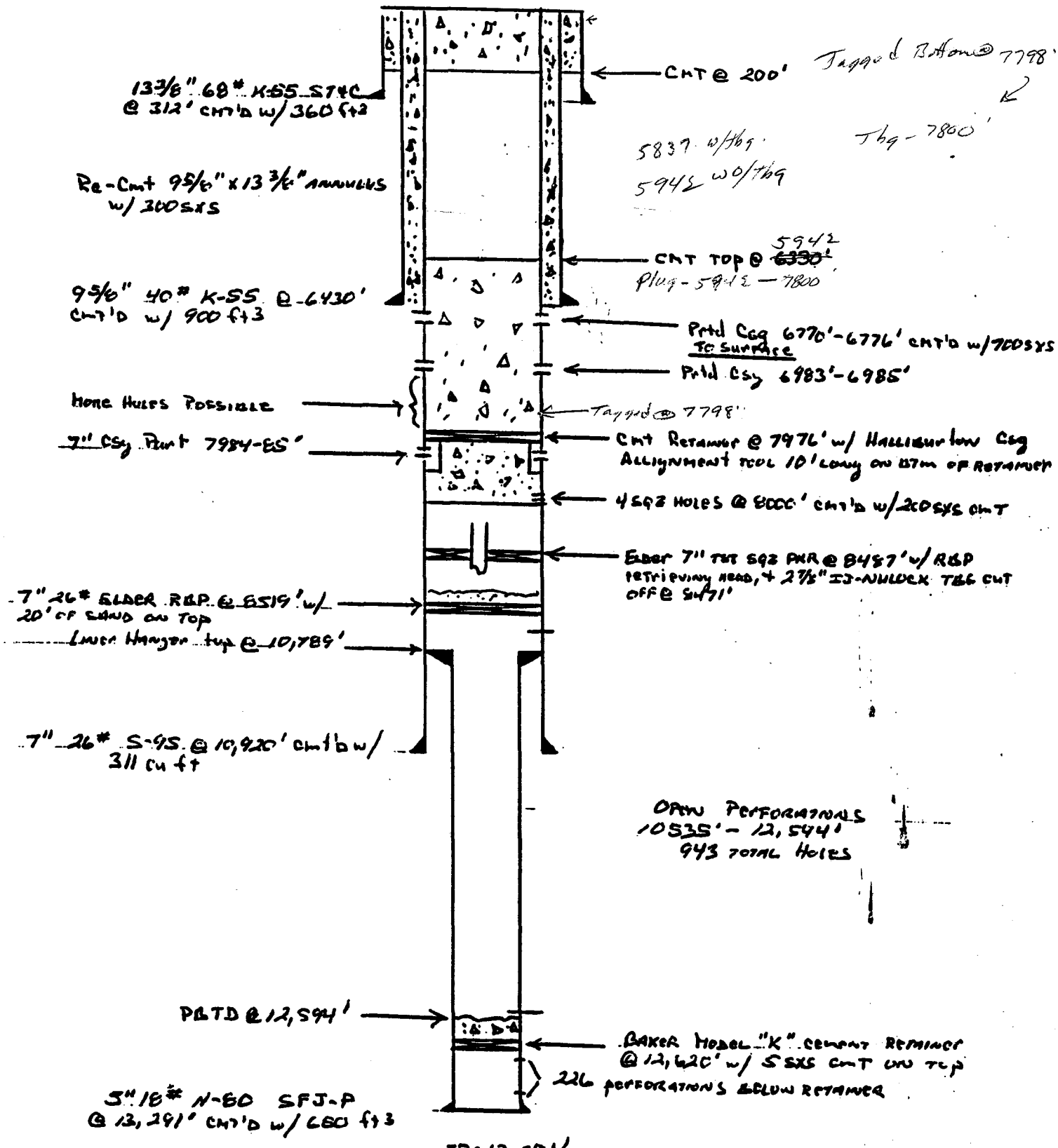


PRESENT WELLBORE SCHEMATIC

Brotherson #1-15B4
AS OF
JAN 19, 1990
P+A SCHEMATIC

S.C. Frutch

MICROFICHE



FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
AUG 15 1990
DIVISION OF OIL, GAS & MINING

1. OIL WELL [X] GAS WELL [ ] OTHER	5. LEASE DESIGNATION & SERIAL NO.: Patented
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
	7. UNIT AGREEMENT NAME: N/A
2. NAME OF OPERATOR: ANR Production Company	8. FARM OR LEASE NAME: Brotherson
3. ADDRESS OF OPERATOR: P. O. Box 749, Denver, Colorado 80201-0749 (303) 573-4476	9. WELL NO.: 1-15B4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: 1601' FNL & 1229' FEL (SENE) At proposed prod. zone	10. FIELD AND POOL, OR WILDCAT: Altamont
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 15, T2S-R4W
14. API NO.: 43-013-30159	15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6272' KB
12. COUNTY: Duchesne	13. STATE: Utah

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

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

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

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

* Must be accompanied by a cement verification report.

Please see attached chronological report for the plug and abandonment procedure performed on the above-referenced well.

OIL AND GAS	
DPN	RJF
JRB	GLH
DTS	SLS
1-DME	
2 MICROFILM	✓
3 FILE	

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

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE August 13, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

(3/89)

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-15B4 (P&A)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.6050% ANR AFE: 63013
TD: 13,291'
PBTD: 7976'
CSG: 5" LINER @ 10,789'-13,291' (WASATCH)
CWC(M$): $43.8 (-$21.3M W/SALV)

8/6/90 Spot cmt plug @ CICR. MIRU. ND WH, NU BOP. Circ hole. Start RIH w/2-7/8" tbg.
DC: $3,571 TC: $3,571

8/7/90 Spot cmt plug @ CICR. RIH w/2-7/8" tbg to 5008'. Encountering thick heavy wax.
DC: $3,073 TC: $6,644

8/8/90 Spot sfc plugs. RIH w/2-7/8" tbg to 7816'. Spot 350 sx cmt plug @ CICR. Cmt top @ 5942'. PT to 1000#. OK. POOH to 3266'. Spot 50 sx cmt plug to 3266'. POOH to 2650'.
DC: $10,840 TC: $17,484

8/9/90 POOH w/2-7/8" tbg. ND BOP's. PT 13-5/8" x 9-5/8" csg to 250#, OK. Spot 750 sx cmt plug from 360' to sfc. Weld on plate. Clean loc. RDSU. P&A completed @ 5:00 p.m., 8/9/90. Final report.
DC: $5,886 TC: $23,370

WESTERN PETROLEUM SERVICES CEMENTING REPORT

DATE 8/9/90 DISTRICT VeRN[illegible] UT F.R.#

OPERATOR Coastal oil + Gas

WELL NAME & NUMBER BRoTHerson 1-15-B4

LOCATION: SEC. 15 BLOCK OR TOWNSHIP 2S SURVEY OR RANGE 4W

COUNTY Duchesne STATE Utah

STAGE NUMBER 3 TYPE JOB P+A

TBG/DP: Size 2 7/8 Weight ___ Disp .00579		Conductor	Surface	Int.	Prod.	Liner
Perforated Interval	Size			7"		
Pkr. Type ___ Set at ___	Weight			26#		
Open Hole Size ___ Formation ___	Thread			8 rd		
Stage Collar Type ___ Set at ___	Capacity			.0383		
Estimated Wash Out ___ %	Depth					

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H_2O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
75	'NeeT'	4.97	15.8	1.14	1½	85.5	15.2 BBL

Total Mix H_2O ___ Bbls. Total Displacement ___ Bbls, Type ___ Total Products ___ Bbls

Time	Remarks	Rate	Pressure Tubing	Pressure Casing
	ARRive Location 07:00			
10:39	Pressure 13 3/8 / 9 5/8 Annulus To 250 PSI	1.0	-	0
10:44	Bleed Pressure off Test Good	-	-	250
11:35	START H2O To Break circulation	1	0	0
11:39	START cmT	1	0	0
11:54	SHUT Down CMT ReTURNS To SURFace	1	0	0
	Rigged Down Left Location aT 12:30 PM.			

Break Down At ___ BPM At ___ PSI
Squeezed To ___ PSI Running ___ Hesitation ___
Reversed out ___ BBL Slurry at ___ PSI
Customer considered service X Satisfactory
___ Unsatisfactory

Customer Rep: MARVIN BAZARTH

Max Pressure 0 Differential Press. 0
Bumped Plug - Yes - No - Pressure to -
Cmt. Circ. to surface Yes Sacks 8
Float Held - Yes - No
Shut in with 0 PSI
Service Supervisor [illegible signature]

WESTERN PETROLEUM SERVICES

CEMENTING REPORT

DATE 9-8-90 DISTRICT [redacted] F.R.# 411242

OPERATOR Coastal Oil & Gas

WELL NAME & NUMBER Brotherson 1-15-B4

LOCATION: SEC. 15 BLOCK OR TOWNSHIP 2S SURVEY OR RANGE 4W

COUNTY Duchesne STATE Utah

STAGE NUMBER 1 TYPE JOB P&A

TBG/DP: Size 2 7/8 Weight 6.5 Disp .00579

Perforated Interval

Pkr. Type Set at

Open Hole Size Formation

Stage Collar Type Set at

Estimated Wash Out %

	Conductor	Surface	Int.	Prod.	Liner
Size			7		
Weight			26#		
Thread			8 rd		
Capacity			.0383		
Depth					

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H_2O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
350	G Neat	4.97	15.8	1.14	2.0	399	71.0
50	G" Neat	4.97	15.8	1.14	2.0	57	10.15

Total Mix H_2O Bbls. Total Displacement Bbls, Type Total Products Bbls

PM Time	Remarks	Rate	Pressure Tubing	Pressure Casing
	On loc. 11:45			
	1st Plug Top Cmt 5944 - 350 sks			
1:17	Start H2O Ahead (10 BBL)	3.0	1000	
1:25	Start 15.8# Slurry Down Hole (71.0 BBL)	3.0	1500	
1:51	Start H2O Displacement (33.7 BBL)	3.0	100	
1:59	Shut Down	—	0	
2:30	Reverse Out (45.0 BBL)			
	2nd Plug - Top Cmt - 3000 - 50 sks			
4:32	Start H2O Ahead (10 BBL)	3.0	1000	
4:40	Start 15.8# Slurry Down Hole (10.15 BBL)	3.0	200	
4:44	Start H2O Displacement (17.3 BBL)	3.0	0	
4:49	Shut down	—	0	
5:07	Reverse Out (23.0 BBL)			

Break Down At — BPM At — PSI

Squeezed To — PSI Running — Hesitation —

Reversed out — BBL Slurry at — PSI

Customer considered service X Satisfactory

Unsatisfactory

Customer Rep: [redacted]

Max Pressure — Differential Press. —

Bumped Plug — Yes — No — Pressure to —

Cmt. Circ. to surface — Sacks —

Float Held — Yes — No

Shut in with — PSI

Service Supervisor [redacted]

Coastal Oil & Gas Corporation
a subsidiary of The Coastal Corporation

P. O. Box 120
Altamont, Utah 84001

801/454-3394

FINAL ABONDONMENT

Brotherson 1-15B4 Sec 15 T2S R4W

43-013-30159 PA

This Release shall inure to the benefit of the successors and assigns of said Releasee and all other persons, firms and corporations and their agents, contractors and employees and shall run with the land, and be binding on the heirs, assigns, successors, executors and administrators of the undersigned.

Brent Brotherson 529-62-1040
Dba Lake Fork Ranch Cattle
Land Owner

Land Owners

R J Lewis
ANR Production

ANR Production

State of Utah
County of Duchesne

On this 13th day of November, 1990 personally appeared before Me Brent Brotherson and R. J. Lewis the signers of the above instrument who duly acknowledged to me that they executed the same.

Laura Lorenson
Talmage

MY COMMISSION EXPIRES 9/26/92