

Approved in accordance with Case No. 199-1

**FILE NOTATIONS**

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

Checked by Chief *Pub* .....  
Approval Letter *5-8-71* .....  
Disapproval Letter .....

**COMPLETION DATA:**

Site Well Completed .....  
..... WW..... TA.....  
..... OS..... PA.....

Location Inspected .....  
Bond released .....  
State or Fee Land .....

**LOGS FILED**

Miller's Log.....  
Electric Logs (No.) .....  
..... I..... Dual I Lat..... GR-N..... Micro.....  
..... GR..... Lat..... Mi-L..... Sonic.....  
..... Colog..... Others.....

7 *AM*

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

5. Lease Designation and Serial No.

Patented

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

7. Unit Agreement Name

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

8. Farm or Lease Name

Brotherson

2. Name of Operator Shell Oil Company (Rocky Mtn Division Production)  
Temeco Oil Company and Gulf Oil Company

9. Well No.

1-2B4

3. Address of Operator

1700 Broadway, Denver, Colorado 80202

10. Field and Pool, or Wildcat

Altamont

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)

At surface

1478' FNL and 1459' FEL Sec 2

11. Sec., T., R., M., or Blk. and Survey or Area

At proposed prod. zone

*NE-SWNE*

NW/4 NE/4 Section 2-T 2S-R 4W

14. Distance in miles and direction from nearest town or post office\*

2 miles SW of Altamont

12. County or Parrish 13. State

Duchesne Utah

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

139'

16. No. of acres in lease

320

17. No. of acres assigned to this well

640

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

No other wells on lease

19. Proposed depth

13,200'

20. Rotary or cable tools

Rotary

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

6254 GL (Ungraded)

22. Approx. date work will start\*

5-12-71

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.

Kind of BOP's: Series 900 to 12,300' and Series 1500 from 12,300 to TD.

How Frequently Tested: Operationally tested daily and press tested after nipling up on all casing strings and as deemed necessary for drilling conditions. All press tests will be recorded on Tour Sheets.

*139'*

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 *J C Shell* Title Division Petroleum Engineer Date April 30, 1971

(This space for Federal or State office use)

Permit No. *43-013-30062* Approval Date

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

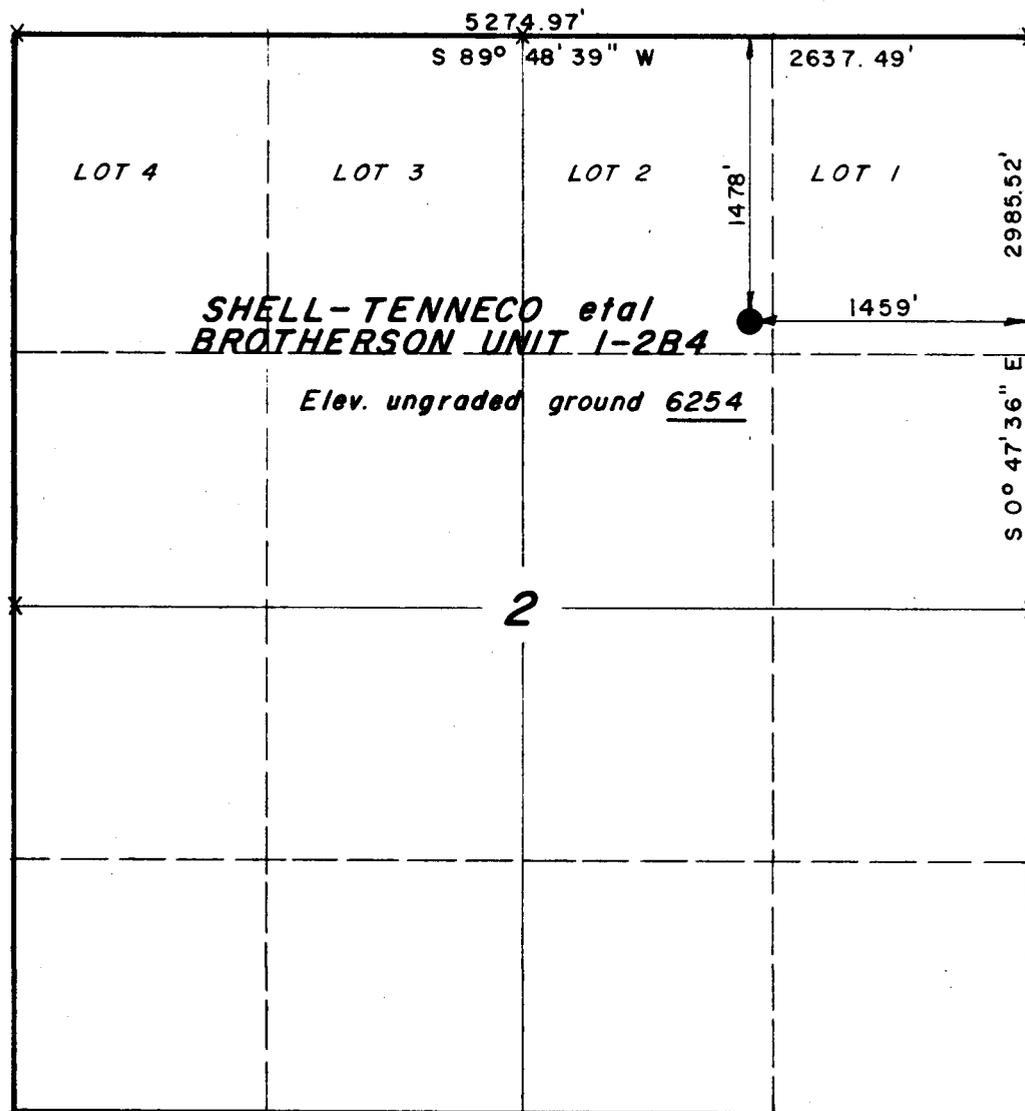
*ls*

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

PROJECT

SHELL OIL COMPANY

Well location, SHELL TENNECO  
 etal BROTHERSON UNIT 1-2B4,  
 located as shown in the NW 1/4  
 NE 1/4 Section 2, 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 THE  
 BEST OF MY KNOWLEDGE AND BELIEF.

*Sane Stewart*

REGISTERED LAND SURVEYOR  
 REGISTRATION NO 3154  
 STATE OF UTAH

X = Corners Re-established

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

SCALE 1" = 1000'	DATE 8 March, 1971
PARTY G.S. B.R. M.S.	REFERENCES GLO Plats <i>h</i>
WEATHER Fair	FILE SHELL OIL CO.

DRILLING WELL PROGNOSIS

WELL NAME Brotherson Unit 1-2 B4  
 TYPE WELL Development  
 FIELD/AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) NE 1/4 Sec 2 T2S R4W Duchesne Co, Utah  
 EST. G. L. ELEVATION 6270 PROJECTED TO 13,200' OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
30"	26"	Dryhole digger		30'	SAMPLES: 90' sfc csg to 6800 10' 6800 to TD CORES: 2 - 60' cores DST'S: 2 DSTS in wasatch
17 1/2"	13 3/8"			300'	
12 1/4"	9 5/8"	DIL		TGR-1 5935 (+350)	DEVIATION CONTROL Dogleg severity to be less than 1/20 per any 100' interval
		DIL		6800'	CEMENT Circulate class "G" + 3% CaCl <sub>2</sub> for 13 3/8" casing. see casing programs for other cementing requirements. MUD sfc - 10,000' Water/Gel vis = 30 - 32 wt = 8.8 - 9 10,000' - TD Gel/chemical/weighted as required
8 5/8"	7 5/8"	DIL BHC/AC/GOR		TGR-3 9570 (-3300)	
	SFJ (Hung)		11,000'	Wasatch 11,220 (-4950)	10,000' - TD Gel/chemical/weighted as required (see mud program)
(12,300')		PML one man mud logger		12,300'	
6 1/2"	5 1/2" SFJ (Hung)			Miles Equiv. 12,555 (-6270)	
				TD 13,200	

ORIGINATOR JHS

DATE 2/10/71

ENGINEERING APPROVAL: L'ES

OPERATIONS APPROVAL:

EXPLOITATION JHS

U7 Furry

MECH. gbb

DIV. DRILLING SUPT.

May 3, 1971

Shell Oil Company  
1700 Broadway  
Denver, Colorado 80202

Re: Brotherson 1-264  
Sec. 2, T. 2 S, R. 4 W,  
Duchesne County, Utah

Gentlemen:

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

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

PAUL W. BURCHELL - Chief Petroleum Engineer  
HOME: 277-2890  
OFFICE: 328-5771

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. The API number assigned to this well is 43-013-30062.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sd

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  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR Shell Oil Company (Rocky Mtn Div. Production)  
Tenneco and Gulf Oil Corporation

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 14,78' FNL and 14,59' FEL Sec 2  
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.  
1-2B4

10. FIELD AND POOL, OR WILDCAT  
Altamont

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

12. COUNTY OR PARISH  
Duchesne

13. STATE  
Utah

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED 5-22-71 16. DATE T.D. REACHED 7-16-71 17. DATE COMPL. (Ready to prod.) 10-10-71 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6254 GL, 6269 KB 19. ELEV. CASINGHEAD 15'

20. TOTAL DEPTH, MD & TVD 14,040 21. PLUG, BACK T.D., MD & TVD 13,912 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS Total CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Green River-Wasatch

25. WAS DIRECTIONAL SURVEY MADE  
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Welex I-ES, Comp Acoustic Velocity/GR and Sonic/GR/Gal, DIL/SP

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
<u>13 3/8"</u>	<u>54.5#</u>	<u>300'</u>	<u>17 1/2"</u>	<u>400 sx</u>	<u>0</u>
<u>9 5/8"</u>	<u>47#</u>	<u>6812'</u>	<u>12 1/4"</u>	<u>1175 cu ft</u>	<u>0</u>

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
<u>7 5/8"</u>	<u>6,512</u>	<u>11,034</u>	<u>840</u>	
<u>5 1/2"</u>	<u>10,906</u>	<u>14,037</u>	<u>200</u>	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>As per attachments</u>	

33.\* PRODUCTION

DATE FIRST PRODUCTION 10-10-71 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
<u>11-7-71</u>	<u>24</u>	<u>30/64"</u>	<u>→</u>	<u>1589</u>	<u>1493</u>	<u>240</u>	<u>940</u>

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
<u>450</u>	<u>100</u>	<u>→</u>	<u>1589</u>	<u>1493</u>	<u>240</u>	<u>42.5° API</u>

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

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

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

SIGNED J. C. Gault TITLE Division Operations Engr. DATE December 6, 1971

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

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner @ 14,037'

TD14,040. PB 13,912. Flowing. On 24-hr test,  
flowed 1843 BO, 182 BW, and 1794 MCF on 30/64" chk w/550  
FTP and 100 CP. NOV 5 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner @ 14,037'

TD 14,040. PB 13,912. OIL WELL COMPLETE.  
On 24 hr test, flowed 1751 BO, 207 BW, and 1670 MCF on 30/64"  
chk w/500 FTP, 100 CP. On 24 hr test, flowed 1671 BO, 207 BW,  
and 1601 MCF on 30/64" chk w/475 FTP, 100 CP. On 24 hr  
test 11/7/71, flowed 1589 BO, 240 BW, and 1493 MCF on  
30/64" chk w/FTP of 450 psi, CP 100 from the Green River -  
Wasatch Zone 11,722-11,732; 11,758-770, 11,786-794, 12,100-104,  
12,298-312, 12,402-412, 12,549-556, 12,826-836, 12,906-919,  
13,093-102, 13,340-346, 13,551-566, 13,804-812, and 13,844-856.  
Test date 11/7/71. Initial prod date 10/10/71.

Elev: 6269 KB

Log Tops:

Top Green River 5,530 (+739)

TGR<sub>3</sub> 9,612 (-3343)

Top Wasatch 11,131 (-4862)

NOV 8 1971

This is an infill well extending development of Wasatch perms.  
FINAL REPORT.



OIL WELL

SHELL OIL COMPANY

CASE SHELL-TENNECO-GULF-BROTHERS

ALTAMONT

FROM: 5-24 - 11-8-71

DIVISION ROCKY MOUNTAIN

COUNTY DUCHESNE

WELL NO. 1-2B4

ELEV 6269 KB

STATE UTAH

*Sec. 2-25-4w*UTAHALTAMONT

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

"FR" 300/80/2/300. Nippling up. Dev: 1/4° @ 107', 1/2° @ 300'.  
Located 1478' FNL and 1459' FEL Section 2-T-2S-R4W, Duchesne  
County, Utah.

Elev: 6254 GL (Ungraded)

13,200' Wasatch Test

Shell Working Interest - 64.63%

Drilling Contractor - Brinkerhoff Drlg Co.

This well is a direct offset to the wells, Miles 1-35A4,  
Brotherson 1-3B4, and Brotherson 1-11B4. It is designed  
to continue evaluation and development of the zns of  
interest in those wells.

Spudded 10:45 p.m. 5/22/71. Ran and cmt 8 jts 54.5# ST&C

13 3/8" csg at 300' w/400 sx Class "G" cmt, 3% CaCl<sub>2</sub>.

Had 2 bbls wtr ahead. 40 sx returns to sfc. CIP 9:45 p.m.  
5/23/71.

MAY 24 1971

Mud: 8.9 x 54.

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

300/80/3/0. Making up drilling assembly.

Nippled up. Press tested csg head to 1500 psi, ok.

Press tested blind rams to 2,000 psi for 10 min, ok.

Mud: Native. MAY 25 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

916/80/4/616. Drilling.

Made up drlg assembly. Hit plug at 257'.

Press tested pipe rams to 2,000 psi, ok.

Drl'd plug and cmt to shoe of 13 3/8" csg.

Mud: water. MAY 26 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

1,538/80/5/622. Drilling. Dev: 3/4° @ 967.

Mud: Water. MAY 27 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

2360/80/6/822. Drilling. Dev: 1/2° @ 2120.

Mud: Water. MAY 28 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg @ 300'

4224/80/10/1864. Drilling.

Dev: 1 1/4° @ 2130 (correction from 5/28/71), 1 1/2° @ 2602,  
2° @ 3686.

Mud: Water. JUN 1 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

4525/80/11/30. Drilling. Dev: 1° @ 4442.  
Mud: Water. JUN 2 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8 Csg @ 300'

4907/80/12/382. Tripping.  
Mud: Water JUN 3 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg @ 300'

5153/80/13/246. Drilling. Dev: 1 1/4° @ 4907.  
Washed 120' at 4907. JUN 4 1971  
Mud: 8.8 x 33.

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg @ 300'

5633/80/16/480. Washing to btm @ 5569. Dev: 1 1/2° at  
5489.  
On 6/4/71, washed 1/2 hr @ 5192. On 6/5/71, reamed 60'  
to btm (5429-5489). While tripping encountered tight  
spot @ 5489 both running out and in.  
Mud: 9.1 x 34 x 12.2 JUN 7 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg @ 300'

5800/80/17/167. Drilling.  
Mud: 9.0 x 30 x 12.8 JUN 8 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

5947/80/18/147. Drilling.  
Mud: (gradient .472) 9.1 x 34 x 9.6  
JUN 9 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6095/80/19/148. Prep to chg bit.  
Mud: (gradient .472) 9.1 x 33 x 10.6 JUN 10 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6193/80/20/98. Drilling.  
Mud: (gradient .468) 9.0 x 32 x 11.2 JUN 11 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6712/80/23/519. Drilling.  
Mud: (gradient .472) 9.1 x 35 x 9.6 JUN 14 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6815/80/24/103. Circulating for logs. Dev: 1 3/4° at  
6759.  
Washed 30' to btm. JUN 15 1971  
Mud: 9.1 x 35 x 8.4

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6815/80/25/0. Running 9 5/8" csg.  
Circ for logs. Ran logs as follows: Welex IES &  
Compensated Acoustic Velocity/GR.  
Ran bit to 6815 and circ hole clean. Changed to 9 5/8"  
rams in prep to run 9 5/8" csg. JUN 16 1971  
Mud: (gradient .478) 9.2 x 47 x 8.0

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

6815/80/26/0. Nippling up; changing BOP's.  
Ran and cmt 166 jts 9 5/8" 47# ST&C S-95. csg at 6812' w/1175 cu  
ft Class "G", 10% salt, 15.5-16# slurry. Bkr Model "G"  
float collar at 6651. 20 bbls wtr ahead. CIP 5:15 p.m.  
6/16/71. Set Cameron csg slips and packoff. Opened  
DV tool at 1019. Broke circ. Mixed and pumped in  
through DV 570 cu ft Halliburton lite cmt. Slurry -  
12.5#. Did not get returns to sfc. Partial lost circ  
during operation. CIP 7:15 p.m. 6/16/71. JUN 17 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

6815/80/27/0. Nippling up BOP's. JUN 18 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

7162/80/30/347. Drilling.  
Nippled up BOP's. Press tested BOP stack and chk  
manifold to 5000 psi, ok. Laid down 9" and 8" DC's.  
Made up drlg assembly. Drid DV collar at 1019. Located  
top of cmt at 6615. Drid float, cmt and shoe to 6828.  
Changed bits, picked up reamer, shock sub and stabilizers.  
Installed rubbers on DP. Bit plugged and pulled wet;  
changed jets. Press tested hydril to 2000 psi for  
15 min, ok. JUN 21 1971  
Mud: (gradient .468) 9.0+ x 35 x 12

Shell-Tenneco-Gulf 7473/80/31/311. Drilling.  
Brotherson 1-2B4 Lost approximately 100 bbls mud past 24 hrs.  
(D) Brinkerhoff Mud: (gradient .468) 9 x 31 x 10.4 JUN 2 2 1971  
13,200' Wasatch Test  
9 5/8" csg at 6812'

Shell-Tenneco-Gulf 7748/80/32/275. Drilling.  
Brotherson 1-2B4 Mud: (gradient .473) 9.1 x 36 x 9.6 JUN 2 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

Shell-Tenneco-Gulf 8006/80/33/258. Drilling.  
Brotherson 1-2B4 Mud: (gradient .473) 9.1 x 32 x 8.8 JUN 2 4 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

Shell-Tenneco-Gulf 8103/80/34/97. Drilling.  
Brotherson 1-2B4 Had rotary clutch repair. JUN 2 5 1971  
(D) Brinkerhoff Mud: (gradient .473) 9.1 x 36 x 8.4 (Oil Trc)  
13,200' Wasatch Test  
9 5/8" csg at 6812'

Shell-Tenneco-Gulf 8568/80/37/465. Drilling.  
Brotherson 1-2B4 Had down time due to engine trouble 6/26/71.  
(D) Brinkerhoff Mud: (gradient .473) 9.1 x 36 x 7.6 (Oil trc). JUN 2 8 1971  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

Shell-Tenneco-Gulf 8805/80/38/237. Drilling  
Brotherson 1-2B4 Mud: 9 x 33 x 6.8 (Oil trc). JUN 2 9 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

Shell-Tenneco-Gulf 9044/80/39/239. Drilling.  
Brotherson 1-2B4 Mud: (gradient .468) 9.0 x 34 x 7.2 JUN 3 0 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Casing @ 6812'

Shell-Tenneco-Gulf 9348/80/40/304. Tripping. JUL 1 1971  
Bortherson No. 1-2B4 Mud: (gradient .468) 9 x 34 x 7.2 (Oil trc)  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg @ 6812'

Shell-Tenneco-Gulf 9538/80/41/190. Drilling.  
Brotherson No. 1-2B4 Mud: (gradient .473) 9.1 x 36 x 6.8 (Oil trc) JUL 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg @ 6812'

Shell-Tenneco-Gulf 10,313/80/45/775. Drilling.  
Brotherson No. 1-2B4 Mud: (gradient .520) 10 x 42 x 6.2 (Oil trc). JUL 6 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg @ 6812'

Shell-Tenneco-Gulf 10,462/80/46/149. Drilling  
Brotherson No. 1-2B4 Mud: 10.3 x 40 x 6.2 (Oil trc) JUL 7 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

Shell-Tenneco-Gulf 10,571/80/47/109. Drilling.  
Brotherson No. 1-2B4 Mud: (gradient .540) 10.3+ x 38 x 9.6 (Oil trc) JUL 8 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

Shell-Tenneco-Gulf- 10,685/80/48/114. Drilling.  
Brotherson No. 1-2B4 Tight hole at 10,592. Pulled single - reamed from 10,540-  
(D) Brinkerhoff 10,592. Raised mud weight to 10.6#/gal. Tight connection at  
13,200' Wasatch Test 10,666'. JUL 9 1971  
9 5/8" Csg at 6812' Mud: (gradient .551) 10.6 x 43 x 8 (LCM 25%) (Oil trc)

Shell-Tenneco-Gulf 11,012/80/51/327. Tripping. Dev: 1 1/2 @ 11,012  
Brotherson No. 1-2B4 On 7/9/71, lost complete returns at 10,728 - regained w/LCM.  
(D) Brinkerhoff Lost 400± bbls mud in 24 hrs. On 7/10/71, mixed mud at  
13,200' Wasatch Test 10,878 and 10,892 for volume. Fair gas and oil kick at  
9 5/8" Csg at 6812' 10,838; raised mud weight. Lost approx 550 bbls mud in 24 hrs.  
On 7/11/71, pulled tight 24 stds off btm. Lost 100 bbls  
mud past 24 hrs.  
Mud: 11.2 x 46 x 8.0 (LCM 20%) JUL 12 1971

Shell-Tenneco-Gulf 11,037/80/52/25. Circ at 9774.  
Brotherson No. 1-2B4 Good oil and gas show following trip. Drld to 11,037; unable  
(D) Brinkerhoff to maintain full circ at 11,037. Hole tight while mixing  
13,200' Wasatch Test mud. Pulled 3 stds to 10,720. Rebuilt mud volume and  
9 5/8" Csg at 6812' obtained partial circ while pmpg and working pipe. Pulled  
10 stds to 9774.  
Mud: 11.6 x 51 x 8.0 (LCM 28%) (Oil 5%). JUL 13 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/53/0. Mixing mud & LCM  
Staged DP back to 11,037 - 3 stands @ a time - unable to  
pump over 700 psi to maintain returns. Began losing mud @  
11,037. Made trip to run logs. Unable to keep hole full while  
tripping. Pulled 36 stds. Shut down to rebuild mud volume.  
Mud: 11.6 x 48 x 8.8 (32%) (Oil 1%) JUL 14 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/54/0. Attempting to circulate @ shoe of 9 5/8"  
(6812'). Mixed mud and LCM. Rebuilt mud volume. Pulled  
out and ran Welex Induction Electric log and Compensated  
Acoustic Velocity log. JUL 15 1971  
Mud: 11.6 x 55 x 8.9 (LCM 33%) (Oil 1%).

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/55/0. Running 7 5/8" liner.  
Staged DP and circ at 6812, 8021, 8767, 9470, 10,220, & 11,037.  
Mud: 11.6 x 45 x 8.7 (LCM 32%) (Oil 2%). JUL 16 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,037/80/58/0. Drilling cement @ 10967.  
Ran and cmt 119 jts 7 5/8" 33.70# S-95 hydril liner at 11,034'.  
Cmt'd w/540 sx Class "G" cmt, 12% gel (12.4# slurry) followed  
by 100 sx Class "G" cmt, 10% salt (15.5# slurry). Float collar  
at 10,907, Burns liner hanger at 6512. CIP 12:45 p.m. Lost  
partial returns during operation. Float equipment would not  
hole. Held cmt 3 1/2 hrs. Pulled out of hanger and cmt  
equalized. Set Bkr Model "K" retainer at 6401. Mixed and  
pumped in 200 sx Class "G" cmt w/15% friction reducer.  
CIP 11:10 p.m. 7/16/71. Laid down DP. Ran drlg assembly and  
drld retainer at 6401. Located cmt at 6454. Drld cmt to  
liner hanger at 6512. Press tested liner lap w/2500 psi  
for 10 min, ok. Pulled out and laid down DP & DC's. Picked  
up 21 4 3/4" OD DC's and 3 1/2" DP. Ran in and drld out liner  
hanger. Pushed & drld on junk from hanger to top of cmt  
at 10,609'. Drld hard cmt from 10,609-10,967'.  
Mud: 11.7 x 48 x 14.6 (LCM 15%) (Oil trc). JUL 19 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,081/80/59/44. Prep to run diamond drlg bit.  
Drld cmt, float collar and shoe to 11,037. Pulled out and  
found bit worn. Rec'd numerous pieces of junk in junk  
sub. Picked up three additional 4 3/4" DC's. Ran bit  
and two junk subs. Drld to 11,081.  
Mud: 11.7 x 43 x 12.0 (LCM 15%) (Oil 1%). JUL 20 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

11,112/80/59/31. Drilling.  
Pulled bit and rec'd numerous pieces of junk in junk sub.  
Cleaned hole, pulled and rec'd large quantity of junk in  
junk subs.  
Mud: 11.6 x 43 x 8.6 (LCM 12%) (Oil 4.6%) JUL 2 1 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,138/80/60/26. Tripping.  
Rec'd junk on each of two bit runs. Amt of recovery  
diminishing with each bit run.  
Mud: 11.6 x 46 x 7.6 (LCM 10%) (Oil 3.2%) JUL 2 2 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

11,158/80/61/20. Drilling.  
Recovered small amount of junk. JUL 2 3 1971  
Mud: (gradient 60.84) 11.7 x 48 x 7.6 (LCM 8%) Oil 3%

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,370/80/64/212. Drilling. JUL 2 6 1971  
Mud: (gradient .618) 11.9 x 46 x 5.4 (LCM 5%) (Oil 2%)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,458/80/65/88. Drilling. JUL 2 7 1971  
Mud: (gradient .618) 11.9 x 52 x 6.2 (LCM trc) (Oil 10%)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,524/80/66/66. Drilling.  
Mud: (gradient .618) 11.9 x 53 x 6.0 JUL 2 8 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,594/80/67/70. Drilling.  
Mud: (gradient .644) 12 x 51 x 5.8. JUL 2 9 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,685/80/68/91. Drilling.  
Mud: (gradient .644) 12 x 46 x 6.2. JUL 3 0 1971

Shell-Tenneco-Gulf 11,876/80/71/191. Drilling.  
Brotherson 1-2B4 Mud: (gradient .666) 12.7 x 45 x 7.6. AUG 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 11,957/80/72/81. Drilling.  
Brotherson 1-2B4 Mud: (gradient .655) 12.6 x 47 x 7.7. AUG 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,043/80/73/86. Drilling.  
Brotherson 1-2B4 Mud: (gradient .665) 12.6 x 50 x 8. AUG 4 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,117/80/74/74. Drlg.  
Brotherson 1-2B4 Mud: (gradient .665) 12.6 x 46 x 7.6. AUG 5 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,236/80/75/119. Drilling.  
Brotherson 1-2B4 Mud: (gradient .655) 12.6 x 50 x 7.6. AUG 6 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,471/80/78/235. Drilling. On 8/6/71, well kicked while  
Brotherson 1-2B4 drlg @ 12,321. SI well, circ on chk for 11 hrs before  
(D) Brinkerhoff controlling well. Drld to 12,324 and lost 110 bbls mud.  
13,200' Wasatch Test Mud: 14.0 x 60 x 2.8. AUG 9 1971  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,530/80/79/59. Tripping.  
Brotherson 1-2B4 Circ btms up. AUG 10 1971  
(D) Brinkerhoff Mud: 14.0 x 58 x 3.0 (LCM 1%) (Oil 12%)  
13,200' Wasatch Test  
7 5/8" Liner @ 15,453'

Shell-Tenneco-Gulf 12,604/80/80/74. Drilling.  
Brotherson 1-2B4 Circ'd & washed to btm @ 12,530. AUG 11 1971  
(D) Brinkerhoff Mud: 14 x 48 x 4.0 (LCM 1%) (Oil 6.8%)  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,683/80/81/79. Drilling. AUG 12 1971  
Brotherson 1-2B4 Mud: 14.2 x 51 x 3.4 (Oil 5%)  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,746/80/82/63. Circ btms up.  
 Brotherson 1-2B4 Circ & mix mud & LCM. Lost 200 bbls mud @ 12,741.  
 (D) Brinkerhoff Mud: (gradient .748) 14.4 x 51 x 3.2 (Oil 4%) **AUG 13 1971**  
 13,200' Wasatch Test  
 7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,952/80/85/69. Drilling.  
 Brotherson 1-2B4 Magnafluxed all DCs and laid down 2 DC's. Washed to btm.  
 (D) Brinkerhoff Lost approx 200 bbls mud at 12,931. **AUG 16 1971**  
 13,200' Wasatch Test Mud: (gradient .764) 14.7 x 58 x 4.2 (LCM 11%) (Oil 3%)  
 7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,024/80/86/72. Drilling. **AUG 17 1971**  
 Brotherson 1-2B4 Mud: (gradient .764) 14.7 x 50 x 3.8 (LCM 10%) (Oil 3%)  
 (D) Brinkerhoff  
 13,200' Wasatch Test  
 7 5/8" Liner @ 11,034"

Shell-Tenneco-Gulf 13,056/80/87/32. Drilling **AUG 18 1971**  
 Brotherson 1-2B4 Washed 65' to btm.  
 (D) Brinkerhoff Mud: (Gradient 769) 14.8 x 55 x 3.0 (Oil 3.2%)  
 13,200' Wasatch Test  
 7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,162/80/88/106. Drilling.  
 Brotherson 1-2B4 Lost approx 200 bbl mud @ 13,105.  
 (D) Brinkerhoff Mud: (Gradient .769) 14.8 x 51 x 4.0 (Oil 3%) **AUG 19 1971**  
 13,200' Wasatch Test  
 7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,185/80/89/23. Mixing mud.  
 Brotherson 1-2B4 Broke circ going in hole to 13,108. Lost approx 400 bbls  
 (D) Brinkerhoff mud. **AUG 20 1971**  
 13,200' Wasatch Test Mud: (Gradient .769) 14.8 x 50 x 3.8 (Oil 3%)  
 7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,185/80/92/0. Reaming and cleaning hole.  
 Brotherson 1-2B4 Attempted to build mud volume. Mixed 900 bbls 14.7 # mud.  
 (D) Brinkerhoff Tried to circ but still losing mud. Mixed and sptd LCM pill  
 13,200' Wasatch Test in OH. Pulled wet string to 8400'. Circ & cond mud. Staged  
 7 5/8" liner @ 11,034' in hole to 11,231 - obtaining full returns. Tight hole at  
 11,231. Reamed and worked pipe to 11,270; hole very sticky.  
 RU mill tooth bit, stabilizers and jars. Staged in hole to  
 11,235. Reamed and cleaned hole from 11,235-11,690. **AUG 23 1971**  
 Mud: (Gradient 764) 14.7 x 53 x 4.8 (LCM 8) (Oil 2.8).

Shell-Tenneco-Gulf 13,203/80/93/18. Drilling:  
 Brotherson 1-2B4 Reamed & cleaned hole from 11,690-13,185. Circ & cond mud.  
 (D) Brinkerhoff Mud: (Gradient 764) 14.7 x 52 x 4.6 (LCM 10) (Oil 28)  
 13,200' Wasatch Test **AUG 24 1971**  
 7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,265/80/94/62. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 54 x 4.2 (Oil 2%). AUG 25 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,329/80/95/64. Drilling. AUG 26 1971  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.2 (Oil 2%).  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,385/80/96/56. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.0 (Oil 2%).  
(D) Brinkerhoff AUG 27 1971  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,557/80/99/172. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.0 (Oil 2.8%) AUG 30 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,587/80/100/30. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 51 x 4.0 (Oil 3%). AUG 31 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,664/80/101/77. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 55 x 3.8 (Oil 2.6%). SEP 1 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,740/80/102/76. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 51 x 3.8 (Oil 3%). SEP 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,802/80/103/62. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 55 x 3.8 (Oil 3%). SEP 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

14,012/80/107/210. Drilling. SEP 7 1971  
Mud: (Gradient .764) 14.7 x 48 x 4.4 (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

14,040/80/108/28. Logging. Circ & mixed pill. Made short  
trip to log. SEP 8 1971  
Mud: (Gradient .751) 14.6 x 52 x 4.5 (LCM 7%) (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

14,040/80/109/0. Prep to run liner.  
Ran logs as follows: Sonic/GR/Cal, DIL/SP. SEP 9 1971  
Mud: (Gradient .764) 14.7 x 57 x 4.2 (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

14,040/80/110/0. Circ to cmt liner. Circ and cond hole to  
run liner. SEP 10 1971  
Mud: (Gradient .764) 14.7 x 59 x 4.2 (LCM 5) (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5 1/2" liner @ 14,037'

14,040/80/113/0. Going in hole w/4 5/8" tapered mill. Ran  
73 jts (3141') 5 1/2" 20# SFJ-P 500-95 hydril liner w/Burns plain  
liner hanger at 10,906, Howco automatic fill float at 13,912,  
Howco guide Shoe at 14,037. Cement'd w/50 sx poz, 3% gel. Re-  
tarded five hrs. Followed w/150 sx Class "G" treated w/10%  
salt, blended w/30% silica flour. Retarded five hrs. Bumped  
plug at 13,912 w/176 bbls mud at 2300 psi. Float held. CIP  
2:50 p.m. 9-11-71. Lost circ prior to running liner. Regained  
full returns after losing 150 bbls mud. Full returns throughout  
job. SEP 13 1971  
Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%) (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5 1/2" liner @ 14,037'

14,040/80/114/0. Preparing to set cement retainer at 10,706.  
Ran 4 5/8" bit and stopped at 13,631. Drld stringers soft cem  
to 13,712. Closed hydril; could pump away at 700 psi. Circ  
and cond mud. SEP 14 1971  
Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%) (Oil 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5 1/2" liner at 14,037'

14,040/80/115/0. Circulating & WOC @ 10,706. Set Howco EZ  
drill cem retainer at 10,706. Mixed and pumped in 300 sx  
Class "G" cem, 10% salt and 1 1/4% CFR-2, 20 bbls wtr ahead and  
5 bbls wtr afterwards. Displaced 23 bbls slurry below retainer.  
Staged 20 bbls slurry in 20-30 min stages. Attempted to stage  
again after 30 min; unable to pmp out. Cem set up in DP. Left  
20+ bbls in DP (84 jts (2611.49') 3 1/2" DP cemented). SEP 15 1971  
Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,037/0. Tripping. Drld cem retainer @ 10,906-firm to hard cem. Pressure tested liner lap @ 10,905 w/2000 psi surface pressure for 15 min, held ok. SEP 16 1971  
Mud: (Gradient .764) 14.7 x 49 x 4.4 (LCM Tr) (Oil 2.4%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/117/0. Circulating. Pulled out and ran 4 5/8" bit to 13,712. Cleaned out cement to float collar @ 13,912. Pressure tested csg to 2,000 psi for 15 min, ok. SEP 17 1971  
Mud: (Gradient .764) 14.7 x 49 x 3.8 (LCM Tr.) (Oil 2.5%)

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/120/0. Running in hole w/4 5/8" bit. Pulled 4 5/8" bit. Ran Sperry Sun gyroscopic multishot survey and Schl GRN log. Ran 6½" bit and csg scraper to 10,906'. Pulled and ran 4 5/8" bit and csg scraper to 13,912. Pulled bit. Ran Welex CBL interval from 6400-13,912'. Reran Sperry Sun gyroscopic multishot survey in interval from 11,600'-13,912'. SEP 20 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/121/0. Changing to salt water. Ran 4 5/8" bit to 13,912. Circ & cond mud. Waited for SW to arrive and be heated. Pmpd 100 bbls fresh wtr w/Dowell mud flush ahead of SW. SEP 21 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/122/0. Running 5½" heat string. Completed hole displacement w/inhibited SW. Let hole stand full for 2 hrs to detect leak if present. Laid down 4½" DP w/3½" DP and stood 2 7/8" tbg and 4 5/8" bit in derrick. Set 7 5/8" Bkr Model "D" pkr w/flapper valve at 10,850 on WL (OWP). SEP 22 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/123/0. Running 2 7/8" tbg. Ran 123 jts (4989.86') 5½" 14# J-55 csg. Hung as heat string at 5006.81'. Dismantled and removed BOP stack & installed tbg head spool and 6" 5000 psi BOP. Laid down 2 7/8" drlg tbg string. SEP 23 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/124/0. MORT. Ran 346 jts 2 7/8" N-80 6½# EUE tbg w/Bkr Model "C" expendable plug holder and Model "C" expendable plug in place, 10' x 2 7/8" OD full opening non-perf prod tube, Bkr anchor tbg seal assembly w/2 seal units, Bkr Model FL on-off seal connector w/2.250" ID plug nipple. Press tested tbg to 7500 psi while running in hole. Stung into Model "D" pkr at 10,850 and landed tbg w/6000# on pkr. Tested annulus to 1000 psi for 15 min, held ok. Removed 6" 5000 psi BOP, flanged up Xmas tree and tested to 7500 psi, held ok. Rig released 12 midnight, 9-23-71. SEP 24 1971

Shell-Tenneco-Gulf- Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	SEP 27 1971
Shell-Tenneco-Gulf- Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	SEP 28 1971
Shell-Tenneco-Gulf- Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	SEP 29 1971
Shell-Tenneco-Gulf- Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	SEP 30 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	OCT 1 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	OCT 4 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	OCT 5 1971
Shell-Tenneco-Gulf- Brotherson 1-2B4 (D) 14,200' Wasatch Test 5½" liner at 14,037'	TD 14,040.	Well SI for battery construction.	OCT 6 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040: MI&RU OWP, gin truck, grease lubricator truck & perf truck. Made dummy run to pkr, BHA to 10,850'. Pulled out of hole - one end back in hole w/driving bar & jars. Knocked out Type "C" plug from retainer below pkr. Pulled out of hole. Ran logging tools and made PDC logging run. OCT 7 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Perforating. Perf interval 11,722-11,732, 11,758-11,770, 11,786-11,794, 12,100-12,104 in 5 runs w/two DML VI shots/ft, using 2" through tbg carrier gun (OWP). 0 press on tbg before first shot, 1400 psi on tbg when out of hole on fourth shot. Built up overnight to 1600 psi. OCT 8 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. Perf'd following depths w/OWP's 2" through tbg steel tube Gowinder w/2 jts/ft: 11,722-11,732, 11,758-11,770, 11,786-11,794, 12,100-12,104. Press on tbg before first shot-0, 1020 on tbg when out of hole. SI overnight. SITP 1600 psi. Following day, perf intervals: 12,298-12,312, 12,402-12,412, 12,549-12,556, 12,826-12,836, 12,906-12,919, 13,093-13,102. SI overnight. 12-hr SITP 2700. Perf same as, above intervals 13,340-13,346, 13,551-13,566, 13,804-13,812, 13,844-13,856. SI overnight. 14-hr SITP 2840. Op'd well to pit for 15 min; oil & gas flowing. SI well. Waited 5 hrs on treater repairs. Op'd well to treater 2 p.m. Gradually op'd chk to 48/64". FTP decreased to 160 psi and then started increasing gradually to 3000 FTP on 16/64" chk. Filled treater & had oil flowing to tanks in 3½ hrs. FTP 1000 psi on 32/64" chk. Had first gauge in tank at 7:30 p.m. measuring 0'11" equaling 154 BO. At 7 a.m. 10-11-71, gauge equaled 10' 5½" resulting in 1331 BO. Last hour-well flowed 136 BO on 30/64" chk w/640 FTP. OCT 11 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
On 23-hr test, flowed 1960 BO, 341 BW on 30/64" chk w/600 psi FTP. OCT 12 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test

TD 14,040. PB 13,912. Flowing. On 22-hr test, flowed 1929 BO, 277 BW and 2730 MCF gas on 25/64" chk w/690 psi FTP. OCT 13 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test

Flowing. Last 24 hrs flowed 1869 oil, 311 wtr, 1948 MCF gas on 26/64" chk w/680 psi tbg press. (GOR 1042). OCT 14 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1668  
BO, 395 BW and 1845 MCF on 27/64" chk w/580 FTP. OCT 15 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
On 24-hr tests, rates are as follows:

Date	BO	BW	MCF	FTP	Chk
10-16	1747	299	1824	580	29/64"
10-17	1771	287	1803	540	29/64" OCT 18 1971
10-18	1660	221	1684	480	29/64"

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1602  
BO, 270 BW and 1789 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 19 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1607  
BO, 230 BW and 1617 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 20 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed  
1573 BO, 215 BW and 1580 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 21 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed  
1672 BO, 240 BW and 1686 MCF gas on 30/64" chk w/475 psi FTP.  
OCT 22 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
Rates on 24-hr tests are as follows:

Date	BO	BW	MCF	Chk	FTP
10-22	1587	196	1516	30/64"	500
10-23	1410	181	1438	30/64"	450
10-24	1550	247	1638	36/64"	460

OCT 25 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1116  
BO, 232 BW, and 1578 MCF on 30/64" chk w/500 FTP. OCT 2 6 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1447  
BO and 194 BW on 30/64" chk w/460 FTP. OCT 2 7 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1523  
BO, 245 BW, and 1630 MCF on 30/64" chk w/FTP 450 psi, 0 CP.  
OCT 2 8 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
5½" liner at 14,037'

TD 14,040. PB 13,912. No report. OCT 2 9 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. SI for BHPS. SITP 2510. SI 36 hrs.  
NOV 1 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. SI for BHPS. Total SI time-60 hrs.  
NOV 2 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner @ 14,037'

TD 14,040. PB 13,912. SI 24 hrs for BHP; prep to run  
static temperature log. Prep. to place back on prod around  
noon. NOV 3 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner @ 14,037'

TD 14,040. PB 13,912. Flowing. On 19-hr test, flowed  
1209 BO, 167 BW, and 1258 MCF on 30/64" chk w/FTP 525, CP 0.  
Down five hrs for BHP. NOV 4 1971

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 7 a.m. 6/16/71.

Ran 166 jts. 9 5/8" 47# ST&C S-95 casing to 6,812'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
166	47#	S-95	ST&C	New	6,820	0	6,812

166 Jts. Total

Halliburton DV Collar at 1,019  
Bkr Model "G" Collar at 6,651  
Bkr Model "G" Shoe at 6,812

No. Make & Type: (Csg drifted to 8.625 by Tuboscope)

2 B&W centralizers spaced 5' from shoe and spaced 80' from shoe.

Cementing: Cemented w/1175 cu ft slurry (Class "G" w/10% salt) 15.5#-16# slurry. 20 bbls wtr ahead. One top DV type rubber plug. CIP 5:15 p.m. 6/16/71. Set Cameron packoff and csg slips w/280,000# wt. Op'd DV tool. Broke circ. Mixed and pumped 570 cu ft Hal lt wt cement slurry - 12.5# wt. DV collar closed ok. Did not get returns at sfc. Partial lost circ during operation. CIP 7:15 p.m. 6/16/71.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 9:30 p.m. 9/10/71.

Ran 73 jts. 20# SFJ-P Soo-95 5½" hyd liner to 14,037'

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
73	20#	Soo-95	SFJ	New	3,141	10,906	14,037

73 Jts. Total

Burns plain liner hanger at 10,906  
Howco automatic fillup float at 13,912  
Howco plain guide shoe at 14,037

Cementing: Cemented through shoe at 14,037' with 50 sx poz, 3% gel. Retarded 5 hrs. Followed w/150 sx Class "G", 10% salt, 30% silica flour. Retarded 5 hrs. Pressure: Max 2300. CIP 2:50 p.m. 9/11/71. Bled back ½ bbl. Lost circ prior to running liner. Regained full returns after losing 150 bbls mud. Full returns throughout job.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 1:30 a.m. 7/16/71.

Hung 119 jts. hydril FJ 7 5/8" liner to 11,034'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
109	33.70#	S-95	Hyd FJ			6,512	11,034'

109 Jts. Total

Liner hanger at 6,512  
Bkr Model "G" Collar at 10,907  
Bkr Model "G" Shoe at 11,034

No. Make & Type

None

Cementing: Cemented through shoe at 11,034' with 540 sx Class "G" cement, 12% gel, (12.4# slurry) followed by 100 sx Class "G", 10% salt (15.8# slurry). CIP 12:45 p.m. 7/16/71. Lost partial circ during operation. Float equip did not hold. Held cement 3½ hrs. Pulled out of hanger and cmt equalized.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole 5/23/71.

Ran 8 jts. 13 3/8" ST&C 54.5# casing to 300'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
8	54.5#	K	ST&C	New	305	0	300'

8 Jts. Total

Hal shoe at 300'.

No. Make & Type:

2 B&W centralizers spaced at 295' on collar of shoe jt.

Cementing: With 2 bbls water ahead, cemented through shoe at 300' with 400 sx Class "G" cement, 3% CaCl<sub>2</sub>. 40 sx returns to sfc. CIP 9:45 p.m. 5/23/71.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 7 a.m. 6/16/71.

Ran 166 jts. 9 5/8" 47# ST&C S-95 casing to 6,812'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
166	47#	S-95	ST&C	New	6,820	0	6,812

166 Jts. Total

Halliburton DV Collar at 1,019  
Bkr Model "G" Collar at 6,651  
Bkr Model "G" Shoe at 6,812

No. Make & Type: (Csg drifted to 8.625 by Tuboscope)

2 B&W centralizers spaced 5' from shoe and spaced 80' from shoe.

Cementing: Cemented w/1175 cu ft slurry (Class "G" w/10% salt) 15.5#-16# slurry. 20 bbls wtr ahead. One top DV type rubber plug. CIP 5:15 p.m. 6/16/71. Set Cameron packoff and csg slips w/280,000# wt. Op'd DV tool. Broke circ. Mixed and pumped 570 cu ft Hal lt wt cement slurry - 12.5# wt. DV collar closed ok. Did not get returns at sfc. Partial lost circ during operation. CIP 7:15 p.m. 6/16/71.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 9:30 p.m. 9/10/71.

Ran 73 jts. 20# SFJ-P Soo-95 5½" hyd liner to 14,037'

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
73	20#	Soo-95	SFJ	New	3,141	10,906	14,037

73 Jts. Total

Burns plain liner hanger at 10,906  
Howco automatic fillup float at 13,912  
Howco plain guide shoe at 14,037

Cementing: Cemented through shoe at 14,037' with 50 sx poz, 3% gel. Retarded 5 hrs. Followed w/150 sx Class "G", 10% salt, 30% silica flour. Retarded 5 hrs. Pressure: Max 2300. CIP 2:50 p.m. 9/11/71. Bled back ½ bbl. Lost circ prior to running liner. Regained full returns after losing 150 bbls mud. Full returns throughout job.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole at 1:30 a.m. 7/16/71.

Hung 119 jts. hydril FJ 7 5/8" liner to 11,034'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
109	33.70#	S-95	Hyd FJ			6,512	11,034'

109 Jts. Total

Liner hanger at 6,512  
Bkr Model "G" Collar at 10,907  
Bkr Model "G" Shoe at 11,034 .

No. Make & Type

None

Cementing: Cemented through shoe at 11,034' with 540 sx Class "G" cement, 12% gel, (12.4# slurry) followed by 100 sx Class "G", 10% salt (15.8# slurry). CIP 12:45 p.m. 7/16/71. Lost partial circ during operation. Float equip did not hold. Held cement 3½ hrs. Pulled out of hanger and cmt equalized.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-2B4

Shoe joint started in hole 5/23/71.

Ran 8 jts. 13 3/8" ST&C 54.5# casing to 300'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
8	54.5#	K	ST&C	New	305	0	300'

$\bar{8}$  Jts. Total

Hal shoe at 300'.

No. Make & Type:

2 B&W centralizers spaced at 295' on collar of shoe jt.

Cementing: With 2 bbls water ahead, cemented through shoe at 300' with 400 sx Class "G" cement, 3% CaCl<sub>2</sub>. 40 sx returns to sfc. CIP 9:45 p.m. 5/23/71.

UTAH

ALTAMONT

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

"FR" 300/80/2/300. Nippling up. Dev: 1/4° @ 107', 1/2° @ 300'.  
Located 1478' FNL and 1459' FEL Section 2-T-2S-R4W, Duchesne  
County, Utah.  
Elev: 6254 GL (Ungraded)  
13,200' Wasatch Test  
Shell Working Interest - 64.63%  
Drilling Contractor - Brinkerhoff Drlg Co.  
This well is a direct offset to the wells, Miles 1-35A4,  
Brotherson 1-3B4, and Brotherson 1-11B4. It is designed  
to continue evaluation and development of the zns of  
interest in those wells.  
Spudded 10:45 p.m. 5/22/71. Ran and cmt 8 jts 54.5# ST&C  
13 3/8" csg at 300' w/400 sx Class "G" cmt, 3% CaCl<sub>2</sub>.  
Had 2 bbls wtr ahead. 40 sx returns to sfc. CIP 9:45 p.m.  
5/23/71. MAY 24 1971  
Mud: 8.9 x 54.

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

300/80/3/0. Making up drilling assembly.  
Nippled up. Press tested csg head to 1500 psi, ok.  
Press tested blind rams to 2,000 psi for 10 min, ok.  
Mud: Native. MAY 25 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

916/80/4/616. Drilling.  
Made up drlg assembly. Hit plug at 257'.  
Press tested pipe rams to 2,000 psi, ok.  
Drld plug and cmt to shoe of 13 3/8" csg.  
Mud: water. MAY 26 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

1,538/80/5/622. Drilling. Dev: 3/4° @ 967.  
Mud: Water. MAY 27 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

2360/80/6/822. Drilling. Dev: 1/2° @ 2120.  
Mud: Water. MAY 28 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg @ 300'

4224/80/10/1864. Drilling.  
Dev: 1 1/4° @ 2130 (correction from 5/28/71), 1 1/2° @ 2602,  
2° @ 3686.  
Mud: Water. JUN 1 1971

Shell-Tenneco-Gulf 4525/80/11/30. Drilling. Dev: 1° @ 4442.  
Brotherson 1-2B4 Mud: Water. JUN 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" Csg at 300'

Shell-Tenneco-Gulf 4907/80/12/382. Tripping.  
Brotherson 1-2B4 Mud: Water JUN 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8 Csg @ 300'

Shell-Tenneco-Gulf 5153/80/13/246. Drilling. Dev: 1½° @ 4907.  
Brotherson 1-2B4 Washed 120' at 4907. JUN 4 1971  
(D) Brinkerhoff Mud: 8.8 x 33.  
13,200' Wasatch Test  
13 3/8" Csg @ 300'

Shell-Tenneco-Gulf 5633/80/16/480. Washing to btm @ 5569. Dev: 1½° at  
Brotherson 1-2B4 5489.  
(D) Brinkerhoff On 6/4/71, washed ¼ hr @ 5192. On 6/5/71, reamed 60'  
13,200' Wasatch Test to btm (5429-5489). While tripping encountered tight  
13 3/8" csg @ 300' spot @ 5489 both running out and in.  
Mud: 9.1 x 34 x 12.2 JUN 7 1971

Shell-Tenneco-Gulf 5800/80/17/167. Drilling.  
Brotherson 1-2B4 Mud: 9.0 x 30 x 12.8 JUN 8 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg @ 300'

Shell-Tenneco-Gulf 5947/80/18/147. Drilling.  
Brotherson 1-2B4 Mud: (gradient .472) 9.1 x 34 x 9.6  
(D) Brinkerhoff JUN 9 1971  
13,200' Wasatch Test  
13 3/8" csg at 300'

Shell-Tenneco-Gulf 6095/80/19/148. Prep to chg bit.  
Brotherson 1-2B4 Mud: (gradient .472) 9.1 x 33 x 10.6 JUN 10 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

Shell-Tenneco-Gulf 6193/80/20/98. Drilling.  
Brotherson 1-2B4 Mud: (gradient .468) 9.0 x 32 x 11.2 JUN 11 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6712/80/23/519. Drilling.  
Mud: (gradient .472) 9.1 x 35 x 9.6 JUN 14 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6815/80/24/103. Circulating for logs. Dev: 1 3/4° at  
6759.  
Washed 30' to btm. JUN 15 1971  
Mud: 9.1 x 35 x 8.4

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
13 3/8" csg at 300'

6815/80/25/0. Running 9 5/8" csg.  
Circ for logs. Ran logs as follows: Welex IES &  
Compensated Acoustic Velocity/GR.  
Ran bit to 6815 and circ hole clean. Changed to 9 5/8"  
rams in prep to run 9 5/8" csg. JUN 16 1971  
Mud: (gradient .478) 9.2 x 47 x 8.0

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

6815/80/26/0. Nippling up; changing BOP's.  
Ran and cmt 166 jts 9 5/8" 47# ST&C S-95 csg at 6812' w/1175 cu  
ft Class "G", 10% salt, 15.5-16# slurry. Bkr Model "G"  
float collar at 6651. 20 bbls wtr ahead. CIP 5:15 p.m.  
6/16/71. Set Cameron csg slips and packoff. Opened  
DV tool at 1019. Broke circ. Mixed and pumped in  
through DV 570 cu ft Halliburton lite cmt. Slurry -  
12.5#. Did not get returns to sfc. Partial lost circ  
during operation. CIP 7:15 p.m. 6/16/71. JUN 17 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

6815/80/27/0. Nippling up BOP's. JUN 18 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" csg at 6812'

7162/80/30/347. Drilling.  
Nippled up BOP's. Press tested BOP stack and chk  
manifold to 5000 psi, ok. Laid down 9" and 8" DC's.  
Made up drlg assembly. Drld DV collar at 1019. Located  
top of cmt at 6615. Drld float, cmt and shoe to 6828.  
Changed bits, picked up reamer, shock sub and stabilizers.  
Installed rubbers on DP. Bit plugged and pulled wet;  
changed jets. Press tested hydril to 2000 psi for  
15 min, ok. JUN 21 1971  
Mud: (gradient .468) 9.0+ x 35 x 12

Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" csg at 6812'	7473/80/31/311. Drilling. Lost approximately 100 bbls mud past 24 hrs. Mud: (gradient .468) 9 x 31 x 10.4 JUN 2 2 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" csg at 6812'	7748/80/32/275. Drilling. Mud: (gradient .473) 9.1 x 36 x 9.6 JUN 2 3 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" csg at 6812'	8006/80/33/258. Drilling. Mud: (gradient .473) 9.1 x 32 x 8.8 JUN 2 4 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" csg at 6812'	8103/80/34/97. Drilling. Had rotary clutch repair. JUN 2 5 1971 Mud: (gradient .473) 9.1 x 36 x 8.4 (Oil Trc)
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" Csg at 6812'	8568/80/37/465. Drilling. Had down time due to engine trouble 6/26/71. Mud: (gradient .473) 9.1 x 36 x 7.6 (Oil trc). JUN 2 8 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" Csg at 6812'	8805/80/38/237. Drilling Mud: 9 x 33 x 6.8 (Oil trc). JUN 2 9 1971
Shell-Tenneco-Gulf Brotherson 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" Casing @ 6812'	9044/80/39/239. Drilling. Mud: (gradient .468) 9.0 x 34 x 7.2 JUN 3 0 1971
Shell-Tenneco-Gulf Bortherson No. 1-2B4 (D) Brinkerhoff 13,200' Wasatch Test 9 5/8" Csg @ 6812'	9348/80/40/304. Tripping. JUL 1 1971 Mud: (gradient .468) 9 x 34 x 7.2 (Oil trc)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg @ 6812'

9538/80/41/190. Drilling.  
Mud: (gradient .473) 9.1 x 36 x 6.8 (Oil trc) JUL 2 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg @ 6812'

10,313/80/45/775. Drilling.  
Mud: (gradient .520) 10 x 42 x 6.2 (Oil trc). JUL 6 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

10,462/80/46/149. Drilling  
Mud: 10.3 x 40 x 6.2 (Oil trc) JUL 7 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

10,571/80/47/109. Drilling.  
Mud: (gradient .540) 10.3+ x 38 x 9.6 (Oil trc) JUL 8 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

10,685/80/48/114. Drilling.  
Tight hole at 10,592. Pulled single - reamed from 10,540-  
10,592. Raised mud weight to 10.6#/gal. Tight connection at  
10,666'. JUL 9 1971  
Mud: (gradient .551) 10.6 x 43 x 8 (LCM 25%) (Oil trc)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,012/80/51/327. Tripping. Dev: 1 1/2 @ 11,012  
On 7/9/71, lost complete returns at 10,728 - regained w/LCM.  
Lost 400± bbls mud in 24 hrs. On 7/10/71, mixed mud at  
10,878 and 10,892 for volume. Fair gas and oil kick at  
10,838; raised mud weight. Lost approx 550 bbls mud in 24 hrs.  
On 7/11/71, pulled tight 24 stds off btm. Lost 100 bbls  
mud past 24 hrs.  
Mud: 11.2 x 46 x 8.0 (LCM 20%) JUL 12 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/52/25. Circ at 9774.  
Good oil and gas show following trip. Drld to 11,037; unable  
to maintain full circ at 11,037. Hole tight while mixing  
mud. Pulled 3 stds to 10,720. Rebuilt mud volume and  
obtained partial circ while pmpg and working pipe. Pulled  
10 stds to 9774. JUL 13 1971  
Mud: 11.6 x 51 x 8.0 (LCM 28%) (Oil 5%).

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/53/0. Mixing mud & LCM  
Staged DP back to 11,037 - 3 stands @ a time - unable to  
pump over 700 psi to maintain returns. Began losing mud @  
11,037. Made trip to run logs. Unable to keep hole full while  
tripping. Pulled 36 stds. Shut down to rebuild mud volume.  
Mud: 11.6 x 48 x 8.8 (32%) (Oil 1%) JUL 14 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/54/0. Attempting to circulate @ shoe of 9 5/8"  
(6812'). Mixed mud and LCM. Rebuilt mud volume. Pulled  
out and ran Welex Induction Electric log and Compensated  
Acoustic Velocity log. JUL 15 1971  
Mud: 11.6 x 55 x 8.9 (LCM 33%) (Oil 1%).

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
9 5/8" Csg at 6812'

11,037/80/55/0. Running 7 5/8" liner.  
Staged DP and circ at 6812, 8021, 8767, 9470, 10,220, & 11,037.  
Mud: 11.6 x 45 x 8.7 (LCM 32%) (Oil 2%). JUL 16 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,037/80/58/0. Drilling cement @ 10967.  
Ran and cmt 119 jts 7 5/8" 33.70# S-95 hydril liner at 11,034'.  
Cmt'd w/540 sx Class "G" cmt, 12% gel (12.4# slurry) followed  
by 100 sx Class "G" cmt, 10% salt (15.5# slurry). Float collar  
at 10,907, Burns liner hanger at 6512. CIP 12:45 p.m. Lost  
partial returns during operation. Float equipment would not  
hole. Held cmt 3½ hrs. Pulled out of hanger and cmt  
equalized. Set Bkr Model "K" retainer at 6401. Mixed and  
pumped in 200 sx Class "G" cmt w/15% friction reducer.  
CIP 11:10 p.m. 7/16/71. Laid down DP. Ran drlg assembly and  
drld retainer at 6401. Located cmt at 6454. Drld cmt to  
liner hanger at 6512. Press tested liner lap w/2500 psi  
for 10 min, ok. Pulled out and laid down DP & DC's. Picked  
up 21 4 3/4" OD DC's and 3½" DP. Ran in and drld out liner  
hanger. Pushed & drld on junk from hanger to top of cmt  
at 10,609'. Drld hard cmt from 10,609-10,967'.  
Mud: 11.7 x 48 x 14.6 (LCM 15%) (Oil trc). JUL 19 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,081/80/59/44. Prep to run diamond drlg bit.  
Drld cmt, float collar and shoe to 11,037. Pulled out and  
found bit worn. Rec'd numerous pieces of junk in junk  
sub. Picked up three additional 4 3/4" DC's. Ran bit  
and two junk subs. Drld to 11,081. JUL 20 1971  
Mud: 11.7 x 43 x 12.0 (LCM 15%) (Oil 1%).

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

11,112/80/59/31. Drilling.  
Pulled bit and rec'd numerous pieces of junk in junk sub.  
Cleaned hole, pulled and rec'd large quantity of junk in  
junk subs.  
Mud: 11.6 x 43 x 8.6 (LCM 12%) (Oil 4.6%) JUL 21 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,138/80/60/26. Tripping.  
Rec'd junk on each of two bit runs. Amt of recovery  
diminishing with each bit run.  
Mud: 11.6 x 46 x 7.6 (LCM 10%) (Oil 3.2%) JUL 22 1971

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

11,158/80/61/20. Drilling.  
Recovered small amount of junk. JUL 23 1971  
Mud: (gradient 60.84) 11.7 x 48 x 7.6 (LCM 8%) Oil 3%

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,370/80/64/212. Drilling. JUL 26 1971  
Mud: (gradient .618) 11.9 x 46 x 5.4 (LCM 5%) (Oil 2%)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,458/80/65/88. Drilling. JUL 27 1971  
Mud: (gradient .618) 11.9 x 52 x 6.2 (LCM trc) (Oil 10%)

Shell-Tenneco-Gulf  
Brotherson No. 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,524/80/66/66. Drilling.  
Mud: (gradient .618) 11.9 x 53 x 6.0 JUL 28 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,594/80/67/70. Drilling.  
Mud: (gradient .644) 12 x 51 x 5.8. JUL 29 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

11,685/80/68/91. Drilling.  
Mud: (gradient .644) 12 x 46 x 6.2. JUL 30 1971

Shell-Tenneco-Gulf 11,876/80/71/191. Drilling.  
Brotherson 1-2B4 Mud: (gradient .666) 12.7 x 45 x 7.6. AUG 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 11,957/80/72/81. Drilling.  
Brotherson 1-2B4 Mud: (gradient .655) 12.6 x 47 x 7.7. AUG 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,043/80/73/86. Drilling.  
Brotherson 1-2B4 Mud: (gradient .665) 12.6 x 50 x 8. AUG 4 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,117/80/74/74. Drlg.  
Brotherson 1-2B4 Mud: (gradient .665) 12.6 x 46 x 7.6. AUG 5 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,236/80/75/119. Drilling.  
Brotherson 1-2B4 Mud: (gradient .655) 12.6 x 50 x 7.6. AUG 6 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,471/80/78/235. Drilling. On 8/6/71, well kicked while  
Brotherson 1-2B4 drlg @ 12,321. SI well, circ on chk. for 11 hrs before  
(D) Brinkerhoff controlling well. Drld to 12,324 and lost 110 bbls mud.  
13,200' Wasatch Test Mud: 14.0 x 60 x 2.8. AUG 9 1971  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,530/80/79/59. Tripping.  
Brotherson 1-2B4 Circ btms up. AUG 10 1971  
(D) Brinkerhoff Mud: 14.0 x 58 x 3.0 (LCM 1%) (Oil 12%)  
13,200' Wasatch Test  
7 5/8" Liner @ 15,453'

Shell-Tenneco-Gulf 12,604/80/80/74. Drilling.  
Brotherson 1-2B4 Circ'd & washed to btm @ 12,530. AUG 11 1971  
(D) Brinkerhoff Mud: 14 x 48 x 4.0 (LCM 1%) (Oil 6.8%)  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,683/80/81/79. Drilling.  
Brotherson 1-2B4 Mud: 14.2 x 51 x 3.4 (Oil 5%) AUG 12 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,746/80/82/63. Circ btms up.  
Brotherson 1-2B4 Circ & mix mud & LCM. Lost 200 bbls mud @ 12,741.  
(D) Brinkerhoff Mud: (gradient .748) 14.4 x 51 x 3.2 (Oil 4%) AUG 13 1971  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 12,952/80/85/69. Drilling.  
Brotherson 1-2B4 Magnafluxed all DCs and laid down 2 DC's. Washed to btm.  
(D) Brinkerhoff Lost approx 200 bbls mud at 12,931. AUG 16 1971  
13,200' Wasatch Test Mud: (gradient .764) 14.7 x 58 x 4.2 (LCM 11%) (Oil 3%)  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,024/80/86/72. Drilling. AUG 17 1971  
Brotherson 1-2B4 Mud: (gradient .764) 14.7 x 50 x 3.8 (LCM 10%) (Oil 3%)  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034"

Shell-Tenneco-Gulf 13,056/80/87/32. Drilling  
Brotherson 1-2B4 Washed 65' to btm. AUG 18 1971  
(D) Brinkerhoff Mud: (Gradient 769) 14.8 x 55 x 3.0 (Oil 3.2%)  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,162/80/88/106. Drilling.  
Brotherson 1-2B4 Lost approx 200 bbl mud @ 13,105.  
(D) Brinkerhoff Mud: (Gradient .769) 14.8 x 51 x 4.0 (Oil 3%) AUG 19 1971  
13,200' Wasatch Test  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,185/80/89/23. Mixing mud.  
Brotherson 1-2B4 Broke circ going in hole to 13,108. Lost approx 400 bbls  
(D) Brinkerhoff mud. AUG 20 1971  
13,200' Wasatch Test Mud: (Gradient .769) 14.8 x 50 x 3.8 (Oil 3%)  
7 5/8" Liner @ 11,034'

Shell-Tenneco-Gulf 13,185/80/92/0. Reaming and cleaning hole.  
Brotherson 1-2B4 Attempted to build mud volume. Mixed 900 bbls 14.7 # mud.  
(D) Brinkerhoff Tried to circ but still losing mud. Mixed and sptd LCM pill  
13,200' Wasatch Test in OH. Pulled wet string to 8400'. Circ & cond mud. Staged  
7 5/8" liner @ 11,034' in hole to 11,231 - obtaining full returns. Tight hole at  
11,231. Reamed and worked pipe to 11,270; hole very sticky.  
RU mill tooth bit, stabilizers and jars. Staged in hole to  
11,235. Reamed and cleaned hole from 11,235-11,690. AUG 23 1971  
Mud: (Gradient 764) 14.7 x 53 x 4.8 (LCM 8) (Oil 2.8).

Shell-Tenneco-Gulf 13,203/80/93/18. Drilling.  
Brotherson 1-2B4 Reamed & cleaned hole from 11,690-13,185. Circ & cond mud.  
(D) Brinkerhoff Mud: (Gradient .764) 14.7 x 52 x 4.6 (LCM 10) (Oil 28)  
13,200' Wasatch Test AUG 24 1971  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,265/80/94/62. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 54 x 4.2 (Oil 2%). AUG 25 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,329/80/95/64. Drilling. AUG 26 1971  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.2 (Oil 2%).  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,385/80/96/56. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.0 (Oil 2%).  
(D) Brinkerhoff AUG 27 1971  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,557/80/99/172. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 53 x 4.0 (Oil 2.8%) AUG 30 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,587/80/100/30. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 51 x 4.0 (Oil 3%). AUG 31 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,664/80/101/77. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 55 x 3.8 (Oil 2.6%). SEP 1 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,740/80/102/76. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 51 x 3.8 (Oil 3%). SEP 2 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 13,802/80/103/62. Drilling.  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 55 x 3.8 (Oil 3%). SEP 3 1971  
(D) Brinkerhoff  
13,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 14,012/80/107/210. Drilling. SEP 7 1971  
Brotherson 1-2B4 Mud: (Gradient .764) 14.7 x 48 x 4.4 (Oil 3%).  
(D) Brinkerhoff  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 14,040/80/108/28. Logging. Circ & mixed pill. Made short  
Brotherson 1-2B4 trip to log. SEP 8 1971  
(D) Brinkerhoff Mud: (Gradient .751) 14.6 x 52 x 4.5 (LCM 7%) (Oil 3%).  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 14,040/80/109/0. Prep to run liner.  
Brotherson 1-2B4 Ran logs as follows: Sonic/GR/Cal, DIL/SP. SEP 9 1971  
(D) Brinkerhoff Mud: (Gradient .764) 14.7 x 57 x 4.2 (Oil 3%).  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 14,040/80/110/0. Circ to cmt liner. Circ and cond hole to  
Brotherson 1-2B4 run liner. SEP 10 1971  
(D) Brinkerhoff Mud: (Gradient .764) 14.7 x 59 x 4.2 (LCM 5) (Oil 3%).  
14,200' Wasatch Test  
7 5/8" liner @ 11,034'

Shell-Tenneco-Gulf 14,040/80/113/0. Going in hole w/4 5/8" tapered mill. Ran  
Brotherson 1-2B4 73 jts (3141') 5 1/2" 20# SFJ-P 500-95 hydril liner w/Burns plain  
(D) Brinkerhoff liner hanger at 10,906, Howco automatic fill float at 13,912,  
14,200' Wasatch Test Howco guide Shoe at 14,037. Cem't'd w/50 sx poz, 3% gel. Re-  
5 1/2" liner @ 14,037' tarded five hrs. Followed w/150 sx Class "G" treated w/10%  
salt, blended w/30% silica flour. Retarded five hrs. Bumped  
plug at 13,912 w/176 bbls mud at 2300 psi. Float held. CIP  
2:50 p.m. 9-11-71. Lost circ prior to running liner. Regained  
full returns after losing 150 bbls mud. Full returns throughout  
job. SEP 13 1971  
Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%) (Oil 3%).

Shell-Tenneco-Gulf 14,040/80/114/0. Preparing to set cement retainer at 10,706.  
Brotherson 1-2B4 Ran 4 5/8" bit and stopped at 13,631. Drld stringers soft cem  
(D) Brinkerhoff to 13,712. Closed hydril; could pump away at 700 psi. Circ  
14,200' Wasatch Test and cond mud. SEP 14 1971  
5 1/2" liner @ 14,037' Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%) (Oil 3%).

Shell-Tenneco-Gulf 14,040/80/115/0. Circulating & WOC @ 10,706. Set Howco EZ  
Brotherson 1-2B4 drill cem retainer at 10,706. Mixed and pumped in 300 sx  
(D) Brinkerhoff Class "G" cem, 10% salt and 1 1/4% CFR-2, 20 bbls wtr ahead and  
14,200' Wasatch Test 5 bbls wtr afterwards. Displaced 23 bbls slurry below retainer.  
5 1/2" liner at 14,037' Staged 20 bbls slurry in 20-30 min stages. Attempted to stage  
again after 30 min; unable to pmp out. Cem set up in DP. Left  
20+ bbls in DP (84 jts (2611.49') 3 1/2" DP cemented). SEP 15 1971  
Mud: (Gradient .764) 14.7 x 52 x 4.0 (LCM 3%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,037/0. Tripping. Drld cem retainer @ 10,906'-firm to hard cem. Pressure tested liner lap @ 10,905 w/2000 psi surface pressure for 15 min, held ok. SEP 16 1971  
Mud: (Gradient .764) 14.7 x 49 x 4.4 (LCM Tr) (Oil 2.4%).

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/117/0. Circulating. Pulled out and ran 4 5/8" bit to 13,712. Cleaned out cement to float collar @ 13,912. Pressure tested csg to 2,000 psi for 15 min, ok. SEP 17 1971  
Mud: (Gradient .764) 14.7 x 49 x 3.8 (LCM Tr.) (Oil 2.5%)

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/120/0. Running in hole w/4 5/8" bit. Pulled 4 5/8" bit. Ran Sperry Sun gyroscopic multishot survey and Schl GRN log. Ran 6½" bit and csg scraper to 10,906'. Pulled and ran 4 5/8" bit and csg scraper to 13,912. Pulled bit. Ran Welex CBL interval from 6400-13,912'. Reran Sperry Sun gyroscopic multishot survey in interval from 11,600'-13,912'. SEP 20 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/121/0. Changing to salt water. Ran 4 5/8" bit to 13,912. Circ & cond mud: Waited for SW to arrive and be heated. Pmpd 100 bbls fresh wtr w/Dowell mud flush ahead of SW. SEP 21 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/122/0. Running 5½" heat string. Completed hole displacement w/inhibited SW. Let hole stand full for 2 hrs to detect leak if present. Laid down 4½" DP w/3½" DP and stood 2 7/8" tbg and 4 5/8" bit in derrick. Set 7 5/8" Bkr Model "D" pkr w/flapper valve at 10,850 on WL (OWP). SEP 22 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D) Brinkerhoff  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/123/0. Running 2 7/8" tbg. Ran 123 jts (4989.86') 5½" 14# J-55 csg. Hung as heat string at 5006.81'. Dismantled and removed BOP stack & installed tbg head spool and 6" 5000 psi BOP. Laid down 2 7/8" drlg tbg string. SEP 23 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

14,040/80/124/0. MORT. Ran 346 jts 2 7/8" N-80 6½# EUE tbg w/Bkr Model "C" expendable plug holder and Model "C" expendable plug in place, 10' x 2 7/8" OD full opening non-perf prod tube, Bkr anchor tbg seal assembly w/2 seal units, Bkr Model FL on-off seal connector w/2.250" ID plug nipple. Press tested tbg to 7500 psi while running in hole. Stung into Model "D" pkr at 10,850 and landed tbg w/6000# on pkr. Tested annulus to 1000 psi for 15 min, held ok. Removed 6" 5000 psi BOP, flanged up Xmas tree and tested to 7500 psi, held ok. Rig released 12 midnight, 9-23-71. SEP 24 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

SEP 27 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

SEP 28 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

SEP 29 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

SEP 30 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

OCT 1 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

OCT 4 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

OCT 5 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. Well SI for battery construction.

OCT 6 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. MI&RU OWP, gin truck, grease lubricator truck & perf truck. Made dummy run to pkr, BHA to 10,850'. Pulled out of hole - one end back in hole w/driving bar & jars. Knocked out Type "C" plug from retainer below pkr. Pulled out of hole. Ran logging tools and made PDC logging run. OCT 7 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Perforating. Perf interval 11,722-11,732, 11,758-11,770, 11,786-11,794, 12,100-12,104 in 5 runs w/two DML VI shots/ft, using 2" through tbg carrier gun (OWP). 0 press on tbg before first shot, 1400 psi on tbg when out of hole on fourth shot. Built up overnight to 1600 psi. OCT 8 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. Perf'd following depths w/ OWP's 2" through tbg steel tube Gowinder w/2 jts/ft: 11,722-11,732, 11,758-11,770, 11,786-11,794, 12,100-12,104. Press on tbg before first shot-0, 1020 on tbg when out of hole. SI overnight. SITP 1600 psi. Following day, perf intervals: 12,298-12,312, 12,402-12,412, 12,549-12,556, 12,826-12,836, 12,906-12,919, 13,093-13,102. SI overnight. 12-hr SITP 2700. Perf same as above intervals 13,340-13,346, 13,551-13,566, 13,804-13,812, 13,844-13,856. SI overnight. 14-hr SITP 2840. Op'd well to pit for 15 min; oil & gas flowing. SI well. Waited 5 hrs on treater repairs. Op'd well to treater 2 p.m. Gradually op'd chk to 48/64". FTP decreased to 160 psi and then started increasing gradually to 3000 FTP on 16/64" chk. Filled treater & had oil flowing to tanks in 3½ hrs. FTP 1000 psi on 32/64" chk. Had first gauge in tank at 7:30 p.m. measuring 0'11" equaling 154 BO. At 7 a.m. 10-11-71, gauge equaled 10' 5¼" resulting in 1331 BO. Last hour-well flowed 136 BO on 30/64" chk w/640 FTP. OCT 11 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
On 23-hr test, flowed 1960 BO, 341 BW on 30/64" chk w/600 psi FTP. OCT 12 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test

TD 14,040. PB 13,912. Flowing. On 22-hr test, flowed 1929 BO, 277 BW and 2730 MCF gas on 25/64" chk w/690 psi FTP. OCT 13 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test

Flowing. Last 24 hrs flowed 1869 oil, 311 wtr, 1948 MCF gas on 26/64" chk w/680 psi tbg press. (GOR 1042). OCT 14 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1668  
BO, 395 BW and 1845 MCF on 27/64" chk w/580 FTP. OCT 1 5 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
On 24-hr tests, rates are as follows:  

Date	BO	BW	MCF	FTP	Chk
10-16	1747	299	1824	580	29/64"
10-17	1771	287	1803	540	29/64"
10-18	1660	221	1684	480	29/64"

 OCT 1 8 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1602  
BO, 270 BW and 1789 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 1 9 1971

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed 1607  
BO, 230 BW and 1617 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 2 0 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed  
1573 BO, 215 BW and 1580 MCF gas on 30/64" chk w/500 psi FTP.  
OCT 2 1 1971

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing. On 24-hr test, flowed  
1672 BO, 240 BW and 1686 MCF gas on 30/64" chk w/475 psi FTP.  
OCT 2 2 1971

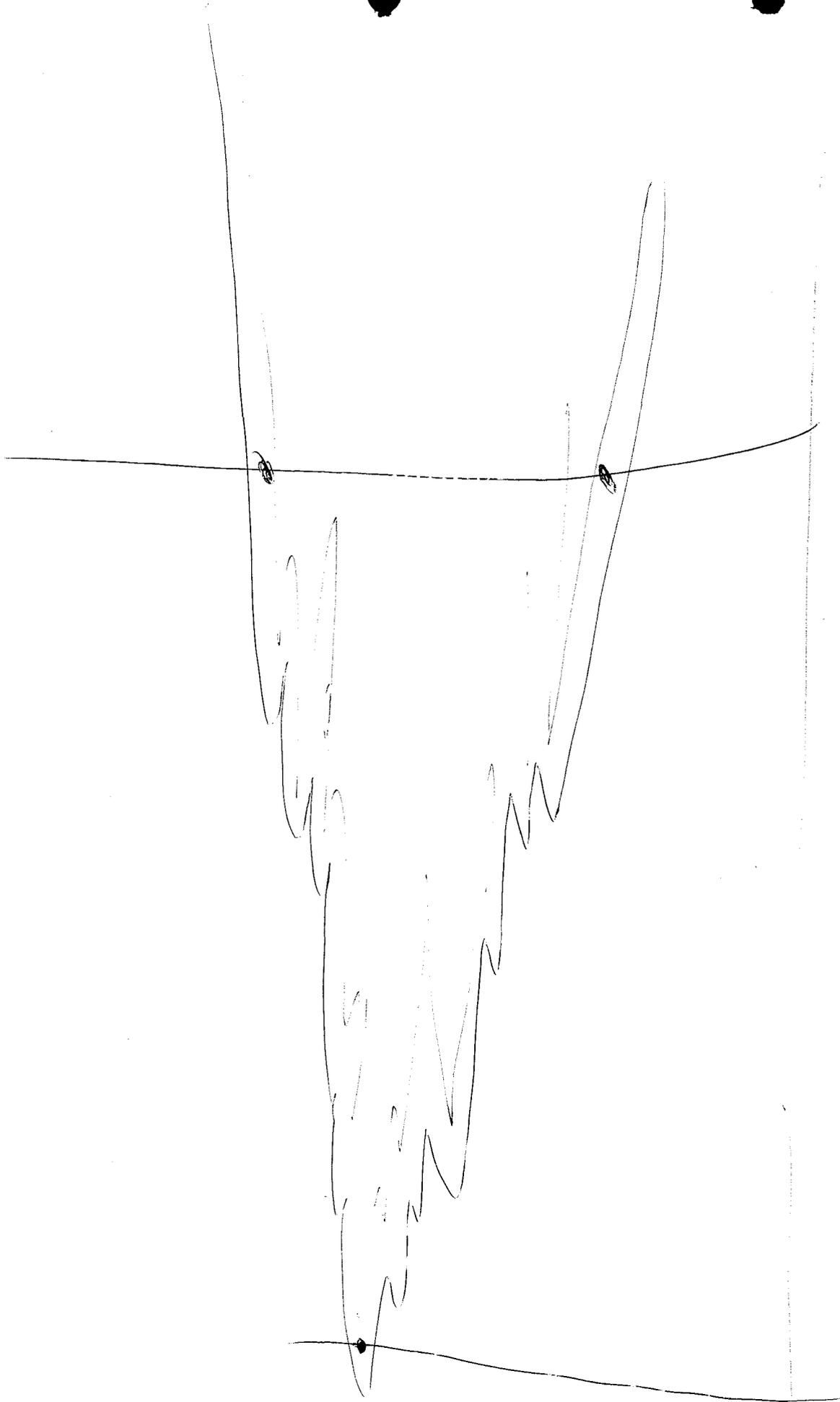
Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(D)  
14,200' Wasatch Test  
5½" liner at 14,037'

TD 14,040. PB 13,912. Flowing.  
Rates on 24-hr tests are as follows:  

Date	BO	BW	MCF	Chk	FTP
10-22	1587	196	1516	30/64"	500
10-23	1410	181	1438	30/64"	450
10-24	1550	247	1638	36/64"	460

 OCT 2 5 1971

N  
↑



4

April 21, 1972

Shell Oil Company  
1700 Broadway  
Denver, Colorado

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

Gentlemen:

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

*It would be appreciated if said logs were forwarded at your earliest convenience in order that we may keep our files accurate and complete.*

*Very truly yours,*

DIVISION OF OIL AND GAS CONSERVATION

SCHEREE DeROSE  
SUPERVISING STENOGRAPHER

:sd

*Received*

THE STATE OF UTAH  
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse 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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company (Rocky Mountain Division Production)		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME Brotherson
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1478' FNL and 1459' FEL Section 2		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6269' KB	9. WELL NO. 1-2B4
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 NE/4 Section 2- T2S-R4W
		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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHORT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(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.)

Acid treated gross perms w/30,000 gal 15% HCL and put well back on production.

18. I hereby certify that the foregoing is true and correct  
SIGNED K. R. [Signature] TITLE Division Operations Engr. DATE June 16, 1972

(This space for Federal or State office use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

WELL STIMULATION  
SHELL OIL COMPANY

ALTAMONT

LEASE SHELL-TENNECO-GULF-BROTHERSON  
DIVISION ROCKY MOUNTAIN  
COUNTY DUCHESNE

WELL NO. 1-2B4  
ELEV 6269 KB  
STATE UTAH

FROM: 5-30 - 6-7-72

JUN 9 1972

UTAH

ALTAMONT

Shell-Tenneco  
Gulf-Brotherson 1-2B4  
(Stimulate well)

"FR" TD 14,040. PB 13,912. Flowing.  
AFE 582967 provides funds to stimulate well.  
SI 16 hrs. Tbg press 1975. Prepared to flow.  
On 5/26/72, MI&RU Halliburton, acid treated gross perms  
from 11,722-13,856 w/30,000 gals of 15% HCl in two stages.  
First stage consisted of 5000 gals 15% HCl containing 150-1"  
ball sealers (gv 1.4) distributed evenly throughout acid  
followed by 25,000 gals 15% HCl w/275-7/8" ball sealers  
(1.4 gravity) distributed evenly throughout acid. Each  
1000 gals HCl contained 3 gals HC-2, 3 gals 3-N, 3 gals  
HAI-50, and 20# WG-7, 30# OS-160 Wide-Range Unibeads, and  
30# Button Unibeads per 1000 gals. Unibeads distributed  
evenly throughout acid. Max press 10,000, min 5,000,  
avg 8100. Max rate 11 B/M, min 6½ B/M, avg 8½ B/M.  
ISIP 1700; 1850 in 5 min, to 1800 in 10 min, to 1700 in 30  
min. Flushed with 5400 gals fresh water containing 5#  
FR-18 per 1000 gals. Good ball action w/breaks of 500 psi  
during job, w/280 balls on formation and 21,000 gals acid  
broke from 8700-6000 psi.

Op'd well 8 a.m. and flowed as follows (5/27/72):

Date	Hr. Test	BO	BW	MCF	Choke	FTP	CP
5/27	15	1800	53	Unmeas.	20/64"	2500	150
5/28	24	2119	0	Unmeas.	20/64"	2550	0
5/29	24	1969	0	1919	18/64"	2700	0

Total cost - \$22,000 on WO 582967 MAY 3 0 1972

Shell-Tenneco-  
Gulf-Brotherson  
1-2B4  
(stimulate well)

TD 14,040. PB 13,912. Flowing.  
On 24-hr test, well flwd 844 BO, 0 BW, 427 MCF on  
8/64" chk w/3075 FTP and 0 CP. MAY 3 1 1972

Shell-Tenneco  
Gulf-Brotherson  
1-2B4  
(stimulate well)

TD 14,040. PB 13,912. Flowing. On 24-hr test,  
flowed 555 BO and 0 BW on 12/64" chk w/3150 FTP.  
JUN 1 1972

Shell-Tenneco-Gulf-  
Gulf-Brotherson  
1-2B4  
(Stimulate well)

TD 14,040. PB 13,912. SI. SITP 3350. JUN 2 1972

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Stimulate well)

TD 14,040. PB 13,912.  
6/2: SI JUN 5 1972  
6/3: SI  
6/4: On 18-hr test, flowed 538 BO, 0 BW and 843 MCF on  
12/64" chk w/3400 FTP and 0 CP.

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Stimulate well)

TD 14,040. PB 13,913. Flowing. On 24-hr test, well flowed 811 BO and no wtr w/782 MCF gas on 12/64" chk w/3300 psi FTP and zero CP. JUN 6 1972

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Stimulate well)

TD 14,040. PB 13,913. WELL STIMULATION COMPLETE. On 24-hr test 4/3/72 prior to stimulation, well flowed 401 BO and 229 BW w/565 MCF gas on 30/64" chk w/175 psi FTP from perfs 11,722-732, 11,758-770, 11,786-794, 12,100-104, 12,298-312, 12,402-412, 12,549-556, 12,826-836, 12,906-919, 13,093-102, 13,340-346, 13,551-566, 13,804-812 and 13,844-856. On 24-hr test ending 6/7/72 after stimulation, well flowed 914 BO and no wtr w/894 MCF gas on 12/64" chk w/3350 psi FTP and zero CP from above-listed perfs. FINAL REPORT. JUN 7 1972

Branch of Oil and Gas Operations  
3416 Federal Building  
Salt Lake City, Utah 84111

October 18, 1972

Mr. M. J. Isto  
Shell Oil Company  
1700 Broadway  
Denver, Colorado 80202

Re: Production handling facilities  
Ute 1-1B4, Communitization Agreement 96-49  
and Brotherson 1-2B4 Communitization Agree-  
ment 96-35

Dear Mr. Isto:

As requested in your letter dated October 5, 1972, this office hereby revokes the United States Geological Survey approval of the common storage facilities granted by Survey letter dated September 7, 1972, involving the referenced wells.

Approval of your application dated October 5, 1972, for installation of a centralized production facility for the two referenced wells is hereby denied. Review of your proposed system, i.e., a common standby/surge tank with common piping does not guarantee integrity of handling or measurement of oil produced from the two wells. This is not to imply that we suspect Shell of performing or condoning the illegal transfer of oil between leases. However, the system you proposed must be capable of transferring oil between all three production tanks in order to function. Consequently, it would be impossible to verify, for instance during a lease audit five years hence, that no transfer of oil took place.

This office has no objection to placing a battery for well 1-1B4 at the location of well 1-2B4 provided the facilities are completely separate.

In those cases where Tribal land only is involved in a spacing unit and the percentage interest in the spacing unit is identical with Tribal land percentage in another spacing unit, the Survey has no objection to common storage facilities with arithmetical allocation of sales. In all other cases, including involvement of Allotted Indian land, we insist on separate handling of the oil up to the point of actual measurement for sale. In these cases allocation of sales measurements in accordance with arithmetical percentages based on meter readings taken at a different point is unacceptable.

How much difference in oil volume occurs between oil measured at the well as opposed to the volume of weathered oil actually sold from the storage tanks? Said volumes should be corrected to a standard pressure base and 60°F. for comparison. I am interested in fieldwide averages.

Sincerely,

JURIG WGD; G. R. DANIELS

Gerald R. Daniels  
District Engineer

cc: State Div. O&G Cons.  
Casper

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

October 18, 1972

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This office has no objection to placing a battery for well 1-1B4 at the location of well 1-2B4 provided the facilities are completely separate.

In those cases where Tribal land only is involved in a spacing unit and the percentage interest in the spacing unit is identical with Tribal land percentage in another spacing unit, the Survey has no objection to common storage facilities with arithmetical allocation of sales. In all other cases, including involvement of Allotted Indian land, we insist on separate handling of the oil up to the point of actual measurement for sale. In these cases allocation of sales measurements in accordance with arithmetical percentages based on meter readings taken at a different point is unacceptable.

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Sincerely,

JURIG REGD, G. R. DANIELS

Gerald R. Daniels  
District Engineer

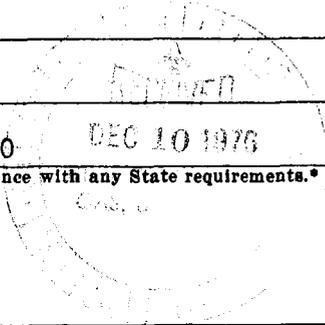
cc: State Div. O&G Cons.  
Casper

OIL & GAS CONSERVATION COMMISSION

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1478' FNL & 1459' FEL Section 2		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.		9. WELL NO. 1-2B4
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6269 KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA NW/4 NE/4 Section 2-T2S-R4W
		12. COUNTY OR PARISH Duchesne
		18. 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 <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)\*

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
 DATE: Dec 10, 1976  
 BY: P. H. Small

See attachment

18. I hereby certify that the foregoing is true and correct  
 SIGNED J. W. Krueger TITLE Div. Oper. Engr. DATE 12/7/76

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment

PERF & ACID TREAT  
SHELL-TENNECO-GULF

LEASE BROTHERSON  
DIVISION WESTERN  
COUNTY DUCHESNE

ALTAMONT  
WELL NO. 1-2B4  
ELEV 6269 KB  
STATE UTAH

FROM: 4/7 - 12/2/76

UTAH  
ALTAMONT

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

"FR" TD 14,040. PB 13,912. AFE #522427 provides funds to perf 11,740-13,898 & AT. 4/5 Cut wax to 9000' & backed well down w/30 bbls diesel. RU OWP to perf unidirectionally w/2" steel carrier thru tbg gun decentralized w/magnets using 6.2 gm Harrison RT charges 2 jets/ft as follows:  
Run #1 - TP 0. Set down @ 13,676; unable to perf 13,702-13,898. Shot 12,628-46 & 13,654-61. Misfired on 13,603-06, 13,532-34 & 13,525-28; will shoot later. Press after 0.  
Run #2 - perf'd 13,582-94, 13,514-17, 13,508-10, 13,498-502, 13,489-91, 13,483-85, 13,478-81, 13,462-65 & 13,451-54. Press before 0; after 50 psi. Run #3 - perf'd 13,445-47, 13,434-36, 13,427-29, 13,415-17, 13,400-02, 13,381-94, 13,373-76, 13,367-69 & 13,351-56. Press before 100; after 150 psi. Run #4 - perf'd 13,332-38, 13,300-05, 13,286-91, 13,266-69, 13,252-56, 13,231-34, 13,208-12 & 13,188-90. Press before 200; after 250 psi. 4/6 Run #5 - perf'd 13,165-68, 13,156-60, 13,137-39, 13,124-28, 13,110-13, 13,078-81, 13,072-75, 13,059-64, 13,012-14, 12,993-95, 12,925-27. Press before & after 1500 psi. FL 5000'. Run #6 - perf'd 12,899-901, 12,887-90, 12,874-77, 12,853-57, 12,840-43, 12,805-09, 12,792 - last 2 guns did not fire (12,783-85 & 12,745-48); will shoot w/another run. Press before & after 1500 psi. Run #7 - perf'd 12,738-41, 12,727-31, 12,718-22, 12,703-11, 12,687-89, 12,662-70 & 12,566-72. Press before & after 1500 psi. Run #8 - perf'd 12,531-38, 12,548-54, 12,495-99, 13,603-06, 13,532-34 & 13,525-28. Press before & after 1500 psi. Run #9 - perf'd 12,783-85, 12,745-48, 12,486-89, 12,481-83, 12,471-75, 12,463-66, 12,416-20, 12,376-78, 12,367-72, 12,360-62, 12,332-34, 12,321-23 & 12,306-10. Press before & after 1500 psi. Run #10 - perf'd 12,299-302, 12,274-82, 12,266-68, 12,255-57, 12,234-37, 12,211-14, 12,201-03, 12,187-89, 12,178-80 & 12,163-69. Press before & after 1500 psi.

APR 07 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Run #11 - perf'd 12,084-88, 12,074-76, 12,069-71, 12,059-64, 12,050-52, 12,042-44, 12,035-38, 12,017-21, 12,006-08, 12,000-02 & 11,993-96. Press before & after 1500 psi. Run #12 - perf'd 11,957-60, 11,948-51, 11,935-39, 11,923-29, 11,901-03, 11,994-98, 11,884-86, 11,878-80, 11,868-73 & 11,860-62. Press before & after 1500 psi. Run #13 - perf'd 11,852-56, 11,832-40, 11,824-28, 11,815-18, 11,799-801, 11,774-78, 11,754-56, 11,749-51, 11,740-45. All perfs shot as per worksheet except for the 1st 5 sets which were below 13,676: 13,894-98, 13,868-72, 13,764-66, 13,754-56 & 13,702-09. Perf'g complete 2 p.m. 4/7. Turned well over to prod.

APR 08 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Flowing. On 17-hr test, flwd 360  
BO, 570 BW, 529 MCF gas thru 1" chk w/100 psi FTP. (Note:  
MCF inj 353; CP 1280#)

APR 09 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Flowing. On various tests, flwd:  

Rept Date	Hrs	BO	BW	MCF Gas	Chk	FTP	
4/10:	24	587	1018	529	1"	100	(350; 1280#)
4/11:	24	574	971	459	1"	100	(410; 1280#)
4/12:	24	381	765	529	1"	100	(443; 1280#)

APR 12 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Flowing. On 24-hr test, flwd 507  
BO, 919 BW, 706 MCF gas thru 1" chk w/100 psi FTP. (Note:  
MCF inj 300; CP 1360#)

APR 13 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Flowing. On 24-hr test, flwd 360  
BO, 513 BW, 705 MCF gas thru 1" chk w/300 psi FTP. (Note:  
MCF inj 550; CP 1300 psi)

APR 14 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. AFE #522427 provided funds to prod  
log. 4/12 MI&RU Sun & cut wax. RD Sun. MI&RU Schl &  
prod log well. RD Schl. Well flw'g to battery.  
(Report discontinued until further activity)

APR 15 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. (RRD 4/15/76) 4/23 MI&RU Sun & cut  
wax. MI&RU Geotex & made dummy run. Could not complete  
prod log due to well cond. 5/6 MI&RU Sun & cut wax. MI&RU  
Geotex. Ran fluid entry w/oil profile survey.  
(Report discontinued until further activity)

MAY 11 1976

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. (RRD 5/11/76) After work, gas  
lifted 206 BO, 576 BW & 405 MCF/D gas w/1350 psi inj press.  
FINAL REPORT

DEC 02 1976

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.)

<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p> <p>2. NAME OF OPERATOR Shell Oil Company</p> <p>3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80290</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1478' FNL &amp; 1459' FEL Section 2</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Patented</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Altamont</p> <p>8. FARM OR LEASE NAME Brotherson</p> <p>9. WELL NO. 1-2B4</p> <p>10. FIELD AND POOL, OR WILDCAT Altamont</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW/4 NE/4 Section 2-T2S-RAW</p> <p>12. COUNTY OR PARISH Duchesne</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6269 KB</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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

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

See attachment

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: July 20, 1978  
BY: [Signature]

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

SIGNED [Signature] TITLE Div. Opers. Engr. DATE JUL 14 1978

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment for info

\*See Instructions on Reverse Side

PERF & ACID TREAT

SHELL-TENNECO-GULF

ALTAMONT

FROM: 5/16 - 6/30/78

LEASE	BROTHERSON	WELL NO.	1-2B4
DIVISION	WESTERN	ELEV	6269 KB
COUNTY	DUCHESNE	STATE	UTAH

UTAH

ALTAMONT

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

MAY 16 1978

"FR" TD 14,040. PE 13,912. AFE # 573437 provides funds to CO, perforate & acidize. MI&RU. Bled csg. Pmp'd 100 bbls down tbg & csg. Removed 5,000# wellhead. Released from Mdl D pkr. Installed 10" BOP. Pmp'd 700 bbls down backside. SION.

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

MAY 17 1978

TD 14,040. PB 13,912. Lay down mandrals. RIH w/Bkr prk picker. Latched into pkr @ 10,850'. Milled on pkr for 3 hrs, pkr came free. Pmp'd 900 bbls wtr without returns.

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

MAY 18 1978

TD 14,040. PB 13,912. Pulled 1 jt tbg, pkr hung up in csg collar. Milled on pkr for 45 mins & came free. Scale on btm of pkr. RIH w/4-5/8 OD mill. Tagged fill or scale @ 5-1/2 liner top (10,906').

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. 5/19 RU OWP. Perf as per prog. 3-1/8 csg gun w/3 holes per ft. 5/19 OPSI before perf & OPSI after, unable to find FL. 5/20 Finished perf, unable to find FL. RIH w/5-1/2" Pkr, set @ 11,000±. Pmp'd 600 bbls wtr down csg, unable to fill csg. Pmp'd 100 bbls hot produced wtr down tbg, dropped standing valve press tbg to 1000 psi, held ok. Pmp'd 100 bbls wtr down csg, unable to fill. RIH to retrieve standing valve. No success.

MAY 22 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Test for leak. OPSI on tbg & csg. Unseated tbg, reset tbg in hanger. Pmp'd 600 bbls down csg, could not fill csg. Tried retrieving standing valve. Re-set pkr & pmp'd 600 bbls wtr down csg, could not fill csg. Pulling tbg wet.

MAY 23 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. No report.

MAY 24 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Finished POOH, removed 6" BOPS, installed 10" BOPS. RIH w/7-5/8 Bkr full bore pkr. Set @ 6850 & filled backside w/prod wtr & tested to 1000 psi. Held ok. Released pkr, went down to 10,850±, sat pkr, tested to 1000 psi. Held ok. Tests indicates 7-5/8 - 5-1/2 liner lap is leaking. POOH w/pkr. RIH w/Bkr Fl 5-1/2 pkr, set @ 10,975. Picked up tbg & Bkr 7-5/8 full bore pkr. Started in hole. Shut in over night.

MAY 25 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On various tests gas lifted:  

<u>Rept date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF gas</u>	<u>Inj press</u>
6-10	24	113	574	1380	1250
6-11	24	390	500	1120	1250
6-12	24	348	501	1130	1250

JUN 14 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 130 BO,  
500 BW, 1320 MCF gas w/1250 psi inj press. JUN 15 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 350 BO,  
500 BW, 1250 MCF gas w/1250 psi inj press.

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. Gauge not available.

JUN 19 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 81 BO,  
750 BW, 1127 MCF gas w/1250 inj press. JUN 20 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 159 BO,  
475 BW, 1180 MCF gas w/1250 psi inj press. JUN 21 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 128 BO,  
604 BW, 1302 MCF gas w/1250 psi inj press. JUN 22 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 119 BO,  
593 BW, 1399 MCF gas w/1250 psi inj press. JUN 23 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 171 BO,  
464 BW, 1338 MCF gas w/1250 psi inj press. JUN 26 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On various tests gas lifted:  

<u>Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF gas</u>	<u>Inj Press</u>
6/22	24	107	631	1419	1250
6/23	24	138	552	1406	1250
6/24	24	117	539	990	1250
6/25	24	118	493	858	1250

JUN 27 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 128 BO,  
536 BW, 1164 MCF gas w/1250 psi inj press. JUN 28 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 114 BO,  
541 BW, 1250 MCF gas w/1250 psi inj press. JUN 29 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & AT)

TD 14,040. PB 13,912. Stung in Bkr Mdl "P" @  
10,975. Set 7-5/8" Bkr pkr @ 10,766±. Pmp'd 400  
bbbls prod wtr to fill csg. Pmp'd 150 bbbls hot prod  
wtr down tbg. Drop'd valve. Press tbg to 1000 psi,  
held ok. Press csg to 1000 psi, held ok. MAY 28 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. Tested sfc lines to 7500 psi. Acid  
treated perf from 11,431 to 13,886 as per prog. Pmp'd  
56,000 gals 7-1/2% HCl w/1200 ball sealers (7/8" RCN).  
Max press 5500 psi, min 2000, avg 5200 & rate 14 B/M.  
Flushed w/140 bbbls prod wtr. ISIP vac. OWP ran gamma ray  
from 13,660 to 10,650, log indicates most perms took fluid  
except for the last 200'. Held 500 psi on backside thru out  
job. 5/27 200 psi on tbg. Installed 10" BOP. Released  
7-5/8" fullbore. POOH. Start in hole w/N-80 tbg & gas  
Mandrels. SION. MAY 30 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim) MAY 31 1978

TD 14,040. PB 13,912. RIH w/gas mandrels. Stung into  
Fl pkr @ 10,975', set Brk fullbore pkr @ 10,786'±. In-  
stalled 5,000# wellhead. Turned well over to production.

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. Gauge not available.

JUN 1 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 20-hr test gas lifted 74 BO,  
7536 BW, 625 MCF gas w/1280 psi inj press. JUN 2 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. (Correction to 6/2/78 rept. On  
20-hr test gas lifted 234 BO, 753 BW, 695 MCF gas/1280  
psi inj press.) 6/5 On 24-hr test gas lifted 234 BO,  
422 BW, 695 MCF gas w/1280 psi inj press. JUN 5 1978

Shell-Tenneco-Gulf-  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On various tests gas lifted:

Rept date	Hrs	BO	BW	MCF gas	Inj press
6-2	10	98	170	520	1280
6-3	24	239	519	1153	1250
6-4	24	112	132	477	1250

JUN 6 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 188 BO,  
592 BW, 1300 MCF gas w/1250 psi inj press. JUN 7 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 534 BO,  
32 BW, 1066 MCF gas w/1250 psi inj press. JUN 8 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 119 BO,  
601 BW, 1305 MCF gas w/1250 psi inj press. JUN 9 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 167 BO,  
478 BW, 1256 MCF gas w/1250 psi inj press. JUN 12 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 14,040. PB 13,912. On 24-hr test gas lifted 249 BO,  
459 BW, 1154 MCF gas w/1250 psi inj press. JUN 13 1978

Shell-Tenneco-Gulf  
Brotherson 1-2B4  
(Perf & Stim)

TD 13,700. PB 13,650. Prior to work the well prod 129 BO,  
409 BW & 700 MCF gas. Following work well prod 118 BO,  
530 BW, & 1075 MCF gas. JUN 30 1978  
FINAL REPORT

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>PATENTED</b>
2. NAME OF OPERATOR <b>SHELL OIL COMPANY</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR <b>PO. Box 831 Houston, Tx 77001 ATTN: P.G. GELING RM. #6459 WCK</b>		7. UNIT AGREEMENT NAME <b>ALTAMONT</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1478' FNL + 1459' FEL SEC.2</b>		8. FARM OR LEASE NAME <b>BROTHERSON</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) <b>6269 KB</b>	9. WELL NO. <b>1-284</b>
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <b>ALTAMONT</b>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>NW14 NE14 T3S R4W</b>
		12. COUNTY OR PARISH   18. STATE <b>Duchesne   UTAH</b>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) _____			
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

SEE ATTACHED

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

DATE: 11/2/82

BY: W. F. N. KellDORF

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

SIGNED W. F. N. KellDORF TITLE DIVISION PROD. ENGINEER DATE 12-21-81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

REMEDIAL PROGNOSIS  
BROTHERSON 1-2B4  
SECTION 2, T2S, R4W  
ALTAMONT FIELD, UTAH

Pertinent Data:

Shell's Share: 64.63%

Elevation (KB): 6269'

Elevation (GL): 6254'

TD: 14,040'

PBTD: 13,912'

Casing: 13-3/8", 54.5#, K-55 to 300', 9-5/8", 47#, S-95 to 6812'; 7-5/8", 33.7#, S-95, top at 6512', bottom at 11,034'

Liner: 5-1/2", 20#, S-95; top at 10,906', bottom at 14,007'

Tubing: 2-7/8", EUE, 6.5#, N-80 to 10,975'

Packer: 5-1/2" Baker Model "F-1" at 10,975', 7-5/8" fullbore at 10,786'

Perforations: 11,431'-13,856' (1551 holes)

Artificial Lift: Gas lift with mandrels at depth shown in current status.

Current Status: Averaging 22 BOPD + 295 BWPD (93% WC) + 50 MCFPD with 500 MCFPD injected.

Objective: CO<sub>2</sub>, perforate, and stimulate the Wasatch.

Procedure:

1. MIRU. Load hole with clean produced water. Remove tree. Install and test BOPE as per field specs.
2. Pull tubing, 7-5/8" fullbore at 10,786', and seal assembly from 5-1/2" F-1, laying down gas lift mandrels while coming out.
3. RIH with bit or mill. Mill out Baker 5-1/2" Model "F-1" at 10,975'. CO<sub>2</sub> 5-1/2" liner to 13,900'. Spot 5000 gallons 15% HCl in liner and displace with clean produced water. POOH.
4. RIH and pressure test 5-1/2" liner lap for suspected liner. Test to 2500 psi. Contact M. E. Bothwell (SSN 454-3427) to discuss repair procedure if necessary.
5. RIH with 5-1/2" RBP and 5-1/2" fullbore packer. Set RBP at 11,400'±. Pressure test to 3000 psi. If okay, spot 1 sack of sand on plug (at field's discretion).
6. Rig up perforators with lubricator (tested to 3000 psi) and perforate as follows:
  - a. Perforate using a 3-1/8" O.D. casing gun with DML Densi-Jet XIV (14.0 gram) charges at 120°F phasing.
  - b. Record and report wellhead pressure before and after each run.
  - c. Perforate (from bottom up) 3 shots per foot at depths shown on Attachment I. Depth reference is Schlumberger's GR-Neutron-CCL dated 9-18-71.

- 7a. If well can be controlled with water after perforating, run a 5-1/2" fullbore packer on tubing and set at  $\pm 10,920'$ . Test tubing to 6500 psi.
  - b. If well cannot be controlled with water after perforating, lubricate in a 5-1/2" Model "F-1" packer and set at  $\pm 10,920'$ . Run tubing, latch into packer, and flow well for 1+ day to clean up perforations. Continue to Step 8.
8. Acid treat perms 11,012'-11,374' (78 new) with 14,500 gallons of 7-1/2% HCl as follows:
- a. Pump 1000 gallons 7-1/2% HCL.
  - b. Pump 3000 gallons acid, dropping one ball sealer (7/8" RCN with 1.2 S.G.) every 155 gallons.
  - c. Pump 500 gallons acid containing 500# benzoic acid flakes.
  - d. Repeat Step (b) 3 more times and Step (c) 2 more times for a total of 4 stages acid and 3 of diverting material (total 14,500 gallons acid and 77 ball sealers).
  - e. Flush with 110 bbls of clean produced water.

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

9. Run RA log from RBP to 10,800' $\pm$ .
- 10a. If well flows such that it cannot be controlled easily with water, release rig and put on production. When well can be controlled with water, move in rig and proceed to Step 11.
- b. If well does not flow, continue with Step 11.

- 11a. If a 5-1/2" fullbore packer was used in Step 7, P00H with tubing and packer.
- b. If a 5-1/2" Model "F-1" packer was used in Step 7, P00H with tubing and seals. RIH and mill out 5-1/2" Model "F-1".
12. RIH, circulate sand (if necessary) and retrieve BP at 11, 400'±. Proceed to Step 13.
13. RIH with tubing, GL mandrels, and 7-5/8" packer. Set packer at 10,800'±. Install GL mandrels as shown in Attachment II.
14. Return well to production.
15. Report well test on morning report until production stabilizes.

Requested by: M. E. Bothwell  
M. E. Bothwell

\_\_\_\_\_  
D. D. Laumbach

WFNK  
11/10/81  
MEB:NLG

\_\_\_\_\_  
Date

ATTACHMENT I

Depth reference is Schlumberger's GR-Neutron-CCL dated 9-18-71.

11374	11148
340	134
320	122
306	116
298	103
286	090
275	071
266	060
251	048
235	036
224	029
194	025
166	011

Total 78 perforations (3 JSPF at 26 depths)

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

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <u>PATENTED</u>																				
2. NAME OF OPERATOR <u>SHELL OIL COMPANY</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR <u>P.O. Box 831 HOUSTON, TX 77001 ATTN: P.G. GELLING RM. # 6459 WCK</u>		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>751' FNL + 1130' FEL SEC. 28</u>		8. FARM OR LEASE NAME <u>BROTHERSON</u>																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6547' KB</u>	9. WELL NO. <u>1-28A4</u>																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <u>ALTAMONT</u>																				
<table border="0"> <tr> <th colspan="2">NOTICE OF INTENTION TO :</th> <th colspan="2">SUBSEQUENT REPORT OF :</th> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input checked="" type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA <u>NE1/4 NE1/4 T15 R4W</u>
NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :																				
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																			
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>																				
		12. COUNTY OR PARISH 18. STATE <u>DUCHESENE UTAH</u>																				

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

SEE ATTACHED

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 7/29/82  
BY: [Signature]

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

SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 7-19-82  
W. E. N. KELLDORF

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

- d. Repeat step (b) 4 more times and step (c) 3 more times for a total of 5 stages acid and 4 of diverting material (total 25,000 gallons acid and 333 ball sealers).
- e. Flush with 110 bbls of clean produced water containing five gallons/100 bbl Tretolite Xcide 102 Biocide.

- Notes:
- (1) All acid and flush to contain five lb. J-120/1000 gallons HCl or equivalent for  $\pm 60\%$  friction reduction and 1.0# 20-30 mesh RA sand per 1,000 gallons (no RA sand in flush).
  - (2) All acid to contain three gallons C-15/1,000 gallons HCl for four hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids) and one gallon Nalco Visco 4987/100 gallons HCl.
  - (3) Maintain 2500 psi surface casing pressure during treatment if possible.
  - (4) Pumping rates: pump at maximum possible without exceeding 6500 psi differential pressure between tubing and annulus.
  - (5) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.
  - (6) Record ISIP and shut-in pressure decline for at least 20 minutes.

6. Run RA log from PBTB to 13,900'±.
7. POOH with tubing and packer. Run and set 5" CIBP at 14,135'. Pressure test plug to 3000 psi.
8. Rig up perforators with lubricator tested to 3000 psi and perforate as follows (depth reference is GR/CBL dated 6-4-74):
  - a. Perforate from bottom up at 3 JSPF. Use a 3-1/8" O.D. casing gun with DML Densi-Jet XIV (14.0 gram) charges at 120° phasing for depths 12,558'-14,064' listed on Attachment II. Use a 4" O.D. casing gun with DML Densi-Jet XIX (19.0 gram) charges at 120° phasing for depths 11,886'-12,530' listed on Attachment II.
  - b. Record and report wellhead pressure before and after each run.

- 9a. If well can be controlled with water after perforating, run a 7" fullbore packer on tubing and set at 11,800'±. Test tubing to 6500 psi.
  - b. If well cannot be controlled with water after perforating, lubricate in a 7" Model "D" packer with Model "B" expendable plug in place and set at 11,800'±. Run in with latch-in assembly and latch into packer. Pressure test tubing to 6500 psi. Run in with sinker bars and jars on wireline and knock out expendable plug from packer. Consider flowing well prior to acidizing.
10. Acid treat perfs 11,886'-14,120' (125 old and 405 new) with 35,000 gallons of 7-1/2% HCl as follows:
- a. Pump 1,000 gallons 7-1/2% HCl.
  - b. Pump 4,000 gallons acid, dropping one ball sealer (7/8" RCN with 1.2 S.G.) every 65 gallons.
  - c. Pump 1,000 gallons acid containing 1000# benzoic acid flakes.
  - d. Repeat step (b) 6 more times and step (c) 5 more times for a total of 7 stages acid and 6 of diverting material (total 35,000 gallons acid and 431 ball sealers).
  - e. Flush with 130 bbls of clean produced water containing five gallons Tretolite Xcide 102/100 bbl.

- Notes:
- (1) All acid and flush to contain five lb. J-120/1000 gallons HCl or equivalent for +60% friction reduction and 1.0# 20-40 mesh RA sand per 1,000 gallons (no RA sand in flush).
  - (2) All acid to contain three gallons C-15/1,000 gallons HCl for four hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids) and one gallon Nalco Visco 4987/100 gallons HCl.
  - (3) Maintain 2500 psi surface casing pressure during treatment if possible.
  - (4) Pumping rates: pump at maximum possible without exceeding 6500 psi differential pressure between tubing and annulus.
  - (5) Increase amount of diverting material if necessary to obtain a gradual increase in treating pressure and/or decrease in rate.

- (6) Record ISIP and shut-in pressure decline for at least 20 minutes.
11. Run RA log from CIBP to 11,700'±.
  - 12a. If well flows, release rig and put on production. When well can be controlled with water, move in rig and proceed to step 13.
    - b. If well does not flow, continue with step 13.
  - 13a. If a 7" fullbore packer was used in step 9, POOH with tubing and packer.
    - b. If a 7" Model "D" packer was used in step 9, POOH with tubing and seals. RIH and mill out 7" Model "D".
  14. RIH and mill out CIBP at 14,135'.
  15. RIH with tubing, GL equipment, and 7" packer. Set packer at 11,800'±. Install GL equipment as shown on Attachment III.
  16. Return well to production.
  17. Report well tests on morning report until production stabilizes.

Requested by:

H. H. Pitzer

Approved:

W. F. [Signature]  
JAS 20. [Signature]

Date:

7/8/82LLL:LAM  
6/29/82

REMEDIAL PROGNOSIS  
BROTHERSON 1-28A4  
SECTION 28, T1S, R4W  
ALTAMONT FIELD, UTAH

Pertinent Data:

Shell's Share: 60.14%

Elevation (KB): 6518'  
Elevation (GL): 6546'  
TD: 16,000'  
PBSD: 15,732'  
Casing: 13-3/8", 68#, K-55 to 303'  
9-5/8", 40#, N-80 & K-55 to 7000'  
7", 26#, S-95 to 12,748'  
Liner: 5", 18#, N-80 & S00-95; 12,543'-16,000'  
Tubing: 2-7/8", N-80, EUE to 12,515'  
Packer: 7" fullbore at 12,515'  
Perforations: 13,336'-15,804' (576 holes)  
Artificial Lift: Gas lift mandrels with valves at 2900'; 5450'; 7350';  
8650'; 9500'; 10,100'; 10,700'; 11,300'; 11,900'; and  
12,500'

Objective: CO, perforate, and stimulate the Wasatch.

Current Status: 26 BOPD + 190 BWPD + 76 MCFPD gas with 440 MCFPD  
injection gas.

Procedure:

1. MIRU. Load hole with clean produced water containing 5 gallons/100 bbl Tretolite Xcide 102 Biocide. Remove tree. Install and test BOPE. See Attachment I for Engineering recommendation for BOPE type.
2. Pull tubing and 7" fullbore packer and lay down GL equipment.
3. CO 5" liner to 15,732' (PBSD).
4. RIH with tubing and 5" fullbore packer and set packer at 14,135'±.
5. Acid treat perfs 14,155'-15,696' (436 old) with 25,000 gallons of 7-1/2% HCl as follows:
  - a. Pump 1,000 gallons 7-1/2% HCl.
  - b. Pump 4,000 gallons acid, dropping one ball sealer (7/8" RCN with 1.2 S.G.) every 60 gallons.
  - c. Pump 1,000 gallons acid containing 1000# benzoic acid flakes.



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

RECEIVED

RD 427805418

OCT 02 1984

*Dickson*

MONTHLY OIL AND GAS PRODUCTION REPORT

DIVISION OF OIL  
GAS & MINING

Operator name and address:

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

1040

*Operator change*  
PO BOX 576  
HOUSTON TX 77001  
ATTN: [REDACTED] OIL ACCT.

Utah Account No. NO840  
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)	
X BROTHERSON 1-03B4	4301330048	01525	02S 04W 3	WSTC	23	317	250	403	
X MURDOCK 1-26B5	4301330049	01530	02S 05W 26	GR-WS	28	1584	2747	6039	
X BROTHERSON 1-14B4	4301330051	01535	02S 04W 14	GR-WS	31	868	2489	3914	
X BROTHERSON 1-11B4	4301330052	01540	02S 04W 11	GR-WS	26	1593	3090	9080	
X CHRISTENSEN 1-33A3	4301330054	01545	01S 05W 33	GR-WS	31	858	70	1060	
X EVANS UNIT 1-31A4	4301330067	01560	01S 04W 31	GR-WS	31	2431	57	10702	
X BLEAZARD 1-18B4	4301330059	01565	02S 04W 18	WSTC	23	568	581	3422	
X BROTHERSON 1-02B4	4301330062	01570	02S 04W 2	GR-WS	0	0	0	0	
X RUST 1-4B3	4301330063	01575	02S 03W 4	GR-WS	21	567	304	1128	
X UTE UNIT 1-36A4	4301330069	01580	01S 04W 36	WSTC	22	2753	3538	907	
X UTE UNIT 1-34A4	4301330075	01585	01S 04W 34	GR-WS	22	486	774	182	
X MONSEN 1-21A3	4301330082	01590	01S 03W 21	GR-WS	24	646	2264	5926	
X BROADHEAD 1-21B6	4301330100	01595	02S 06W 21	WSTC	31	1442	1685	435	
TOTAL							14112	17931	57128

JT - 2

Comments (attach separate sheet if necessary)

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

Date Sep 28, 1984

Authorized signature

Telephone 801-484-2262

*[Handwritten Signature]*

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

PRINT IN TRIPLICATE  
(Other instructions on reverse side)

010974

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 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 requirements.\* See also space 17 below.)  
At surface  
See attached list

14. PERMIT NO.  
43-013-30062

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

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.  
1-2B4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR ABBA  
Sec. 2 T. 25 4w

12. COUNTY OR PARISH 13. STATE  
Kucham

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) - Change Operator <input checked="" type="checkbox"/>		(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 Don Mc Nibben 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:

# ANR

## ANR Production Company

a subsidiary of The Coastal Corporation

012712

**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

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.

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*



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

# MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

*N0675*

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

Utah Account No. N0235

Report Period (Month/Year) 11 / 87

Amended Report

Well Name	Producing	Days	Production Volume		
API Number Entity Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
BROTHERSON 1-3B4 4301330048 01525 02S 04W 3	GRRV				
MURDOCK 1-26B5 4301330049 01530 02S 05W 26	GR-WS				
MURDOCK #2-26B5 4301331124 01531 02S 05W 26	WSTC				
BROTHERSON 1-14B4 4301330051 01535 02S 04W 14	GR-WS				
BROTHERSON 1-11B4 4301330052 01540 02S 04W 11	GR-WS				
BROTHERSON #2-11B4 4301331078 01541 02S 04W 11	WSTC				
CHRISTENSEN 1-33A5 4301330054 01545 01S 05W 33	GR-WS				
BLEAZARD 1-18B4 4301330059 01565 02S 04W 18	WSTC				
BLEAZARD #2-18B4 4301331025 01566 02S 04W 18	WSTC				
BROTHERSON 1-02B4 4301330062 01570 02S 04W 2	GR-WS				
RUST 1-4B3 4301330063 01575 02S 03W 4	GR-WS				
RUST #2-36A4 4301331092 01577 01S 04W 36	WSTC				
UTE UNIT 1-36A4 4301330069 01580 01S 04W 36	WSTC				
TOTAL					

Comments (attach separate sheet if necessary) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

Authorized signature \_\_\_\_\_ Telephone \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		5. LEASE DESIGNATION & SERIAL NO. Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		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. 1-2B4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1478' FNL & 1459' FEL At proposed prod. zone Same as above		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 2, T2S-R4W
14. API NO. 43-013-30062	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6254' GL	12. COUNTY Duchesne
		13. STATE Utah

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) Construct Emergency Pit	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) _____ (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> X	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>
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.

ANR Production Company requests permission to construct an emergency pit to replace the existing emergency pit on the above-referenced location. The existing emergency pit is currently being reclaimed and will no longer be used. The proposed emergency pit will be 25' x 25' x 5', be lined with a 30 MILS liner and will be used for emergency discharge of fluids.

**APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING**  
 DATE: 2-14-91  
 BY: [Signature]

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

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE 2-7-91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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 new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT — for such proposals:

6. Lease Designation and Serial Number Fee
7. Indian Allottee or Tribe Name
N/A
8. Unit or Communitization Agreement
N/A
9. Well Name and Number
Brotherson #1-2B4
10. API Well Number
43-013-30062
11. Field and Pool, or Wildcat
Altamont

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
 ANR Production Company

3. Address of Operator  
 P.O. Box 749, Denver, Colorado 80201-0749

4. Telephone Number  
 (303) 573-4476

5. Location of Well  
 Footage : 1478' FNL & 1459' FEL  
 Q. Sec. T., R., M. : SWNE, Section 2, T2S-R4W  
 County : Duchesne  
 State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 9/15/91

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure to repair existing casing leak, cleanout and acidize the above-referenced well.

RECEIVED  
AUG 07 1991

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 8-10-91  
BY: [Signature]

14. I hereby certify that the foregoing is true and correct  
Name & Signature [Signature] Title Regulatory Analyst Date 8/5/91  
(State Use Only)

## CASING REPAIR AND ACIDIZING PROCEDURE

Brotherson #1-2B4

Section 2, T2S, R4W  
Altamont Field  
Duchesne County, Utah

July 30, 1991

### WELL DATA

Location: 1320' FEL, 1320' FNL  
Elevation: 6269' KB, 6254' GL  
TD: 14,040'  
PBSD: 13,680  
Casing: 9-5/8", 47#, S-95, LT&C @ 6812'  
7-5/8", 33.7#, S-95 Liner 6512-11,034'  
5-1/2", 20#, S-95 Liner 10,906-14,007'  
Tubing: 2-7/8", 6.5#, N-80 8RD  
Bridge Plug: 7-5/8" RBP @ 10,217'  
Perforations: 11,011-13,680', total 685 feet and 1505 holes.

### Tubular Data:

<u>Description</u>	<u>ID</u>	<u>Drift</u>	<u>Capacity</u> (B/F)	<u>Burst</u> (psi)	<u>Collapse</u> (psi)
7-5/8" 33.7# S-95	6.625"	6.500"	0.0426	9380	7260
5-1/2" 20# S-95	4.778"	4.653"	0.0211	10910	10000
2-7/8" 6.5# N-80	2.441"	2.347"	0.00579	10570	11160

### PRESENT STATUS

Well shutin with probable hole in 9-5/8" casing @ 4354. 122' of fish in hole with top of fish @ 10,276'. Fish consists of tubing, gas anchor, and anchor catcher.

### PROCEDURE

1. MIRU service rig. Kill well & NU BOP. POOH w/2-7/8" tubing.
2. PU cement retainer on 2-7/8" tubing and TIH. Set 9-5/8" cmt. retainer @  $\pm 4250'$ . Cement squeeze casing leak as necessary.
3. Drill out excess cement and pressure test casing to 2000#. Resqueeze if necessary.
4. P. U. retrieving head and TIH to 10,256'. Wash down sand and retrieve RBP @ 10,276.
5. P. U. 6-1/2" mill on 2-7/8" tubing and TIH to top of 5-1/2" liner @ 10,906. POOH laying down 6-1/2" mill. P.U. 4-5/8" mill on 2-7/8" tubing and TIH. Clean out 5-1/2" liner to  $\pm 13,680'$ . POOH laying 4-5/8" mill.

5. P.U. 3-1/2 X 7-5/8" packer on 3-1/2" tubing and TIH to  $\pm 10,850$ . Set packer and pressure annulus to 2000psi.
  
6. Acidize Wasatch perms 11,011-13,680' with 40,000 gals 15% HCl with additives and 2500 1.1 s.g. ball sealers.
  - A. Precede acid w/250 bbls water w/10 gal per 1000 scale inhibitor and 500 gals Xylene.
  - B. All water to contain 3% KCl.
  - C. Acidize in 8 stages of 5000 gals each with diverter stages of 1000 gals gelled saltwater with 1/2#/gal each of Benzoic acid flakes and rock salt.
  
7. Flow back acid load. Unseat pkr and POOH laying down packer and 3-1/2" tubing.
  
8. Rerun production equipment and return well to production.

KB 6269

BROTHERSON I-2B4

PREVIOUS OPERATIONS

DATE

11,722' - 13,856' (400')  
680'  
138' (276 holes) 30,000 gal 15% HCl  
4000 gal 15% HCl

10/71  
5/72  
9/75  
1/76

Initiated GL

11,740' - 13,661' (824) 412'

4/76

\*11,431' - 13,501' (327) - 56,000 gal 7 1/2% HCl  
3800 gal 15% HCl

5/78  
6/79

5000 gal 15% HCl

3/82

\*11,011' - 374' (78) - 14,500 gal 7 1/2% HCl

3/82

13 3/4" 54.5# K-55 to 300'  
9 5/8" 47# S-95 to 6812'

7 5/8" 33.7# S-95  
6512' - 11,034'

TGRB  
9620' 42

M1  
10,820' 30

TT  
11,055'  
(11,062)

PERFORATED INTERVAL  
11,011' - 13,856' (1629 holes)

TRE  
11,265'

13,680 1505

5 1/2" 20# S-95

BRB  
11,425'

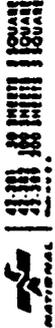
10,906' - 14,007'

BT  
12,760'

MS

PBTD 13,680' (124 perfs below)

TD 14,040'



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

6. Lease Designation and Serial Number
Fee
7. Indian Allottee or Tribe Name
N/A
8. Unit or Communitization Agreement
N/A
9. Well Name and Number
Brotherson #1-2B4
10. API Well Number
43-013-30062
11. Field and Pool, or Wildcat
Altamont

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells; deepen existing wells; or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	2. Name of Operator ANR Production Company	3. Address of Operator P. O. Box 749    Denver, CO 80201-0749	4. Telephone Number (303) 573-4476
5. Location of Well Footage    1478' FNL & 1459' FEL Q.Q. Sec. T. R. M. : SW/NE Section 2, T2S-R4W		County : Duchesne State : UTAH	

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start    12/30/91

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached procedure to repair the casing and acidize the above referenced well. (This work will be in addition to work previously performed in September, 1991.)

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

DATE: 12-30-91  
BY: [Signature]

RECEIVED

DEC 27 1991

DIVISION OF  
OIL GAS & MINING

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

Name & Signature: [Signature]    Title: Regulatory Analyst    Date: 12/23/91

(State Use Only)

PROCEDURE TO INSTALL TIEBACK LINER, CLEANOUT & ACIDIZE

BROTHERSON #1-2B4

SECTION 2, T2S, R4W  
ALTAMONT FIELD  
DUCHESNE COUNTY, UTAH

DECEMBER 4, 1991

WELL DATA

Location: 1320' FEL, 1320' FNL  
Elevation: 6269' KB, 6254' GL  
TD: 14,040'  
PBSD: 13,680'  
Casing: 9-5/8", 47#, S-95, LT&C set @ 6812'  
7-5/8", 33.7#, S-95 Liner set from 6,512'-11,034'  
5-1/2", 20#, S-95 Liner set from 10,906'-14,007'  
Tubing: 2-7/8", 6.5#, N-80 8rd  
Bridge Plug: 7-5/8" RBP @ 10,217'  
Perforations: 11,011'-13,680', total 685 feet and 1505 holes.

TUBULAR DATA

<u>Description</u>	<u>ID</u>	<u>Drift</u>	<u>Capacity</u> (B/F)	<u>Burst</u> (psi)	<u>Collapse</u> (psi)
7-5/8" 33.7# S-95	6.625"	6.500"	0.0426	9380	7260
5-1/2" 20# S-95	4.778"	4.653"	0.0211	10910	10000
2-7/8" 6.5# N-80	2.441"	2.347"	0.00579	10570	11160

PRESENT STATUS

Well shut-in with probable hole in 9-5/8" casing @ 4354' & 3639'. 122' of fish in hole with top of fish @ 10,276'. Fish consists of tubing, gas anchor and anchor catcher.

PROCEDURE

1. MIRU service rig. Kill well & NU BOP. POOH w/2-7/8" tbg.
2. RIH w/8-1/2" x 6-5/8" tapered dress-out mill on 2-7/8" tbg. Dress 7-5/8" tieback receptacle @ 6512'. POOH.
3. RIH w/3500' 7-5/8" 33.7# S-95 used csg w/tieback sleeve, seal nipple and pack-off liner hanger on 3-1/2" tbg. Land csg and set hanger. POOH. PU 7-5/8" cmt retainer on 2-7/8" tbg & TIH. Set retainer @ 6400' and pressure test 7-5/8" csg to 2000 psi. Cement 9-5/8" x 7-5/8" annulus w/225 sxs Premium cmt. Sting out and reverse tubing. POOH w/tbg and stinger.
4. PU 6-5/8" cmt mill on 2-7/8" tbg & TIH. Drill out cmt retainer and cmt. Pressure test to 2000 psi. Circulate hole clean & POOH w/tbg & mill.

Install Tieback Liner, Cleanout & Acidize  
Brotherson #1-2B4  
Page Two

5. PU retrieving head and TIH to 10,256'. Wash down sand and retrieve RBP @ 10,217'. POOH w/tbg and RBP. PU 5-3/4" O.D. wash pipe w/2-7/8" grapple and TIH. Wash over and retrieve fish. POOH laying down fish.
6. PU 6-5/8" mill on 2-7/8" tbg and TIH to top of 5-1/2" liner @ 10,906'. POOH laying down 6-5/8" mill. PU 4-5/8" mill on 2-7/8" tbg and TIH. Cleanout 5-1/2" liner to  $\pm 13,680'$ . POOH laying down 4-5/8" mill.
7. PU 3-1/2" x 7-5/8" packer on 3-1/2" tubing and TIH to  $\pm 10,850'$ . Set packer and pressure test annulus to 2000 psi.
8. Acidize Wasatch perfs 11,011' to 13,680' with 40,000 gals 15% HCl with additives and 2000 - 1.1 S.G. ball sealers.
  - A. Precede acid w/250 BW w/10 gal per 1000 scale inhibitor and 500 gals xylene.
  - B. All water to contain 3% KCl.
  - C. Acidize in 10 stages of 4000 gals each with diverter stages of 1000 gals gelled saltwater with 1/2 ppg each of benzoic acid flakes and rock salt.
  - D. All fluids to be heated to 150°F.
  - E. Establish maximum injection rate @ MTP of 8500#.
9. Flow back acid load. Unseat pkr and POOH laying down packer and 3-1/2" tubing.
10. Rerun production equipment and return well to production.

LPS:tmr

CSG DATA

SIZE	WT.	GRADE	FROM	TO
13 3/8	54.5"		SURF	300'
9 5/8	47"		SURF	6812'
7 5/8	33.7"		6512'	11,034'
5 1/2	20"		10,906'	14,040'

BRIEF COMPLETION SUMMARY

MOVED ON FOR UNCHUCKED RODS AND PUMP. FAILURE  
 ORG mud. Tbh ANCHOR IS STUCK OUT 2 3/8 OFF @  
 10,276'. RIN w/ WASH LIQ. & ORG COLLARS 134, 6 1/2 SHOE  
 CLEANED OUT ORG mud & shale. FL 7432 to FISH TOOL  
 10,276'. PUMP L.O. BHA SET RBP around sand. RIN w/ TOL  
 & RODS. WAIT ON AEE.

(note) L.O. 2 3/8 good 29.87-38.05 1 Jt w/ Hole in 30-  
 1 piece 17.25' Put Hole out of Jt & out in APPROX  
 office. Jt # 141

(RBP IS 330 Jts IN UP 15')

Fish is surrounded in mud & shale

(Fish in hole  
 Below RBP)

FINAL STATUS K-A 15.00

- ① Doughnut .90'
- ② 328 Jts 2 3/8 N-80 B10 10,154.03
- ③ 2 3/8 DEEPEN H.P. JT 10.08
- ④ 2 3/8 solid ply .80  
 w/ 2 3/8 collar on star → 10,150.81

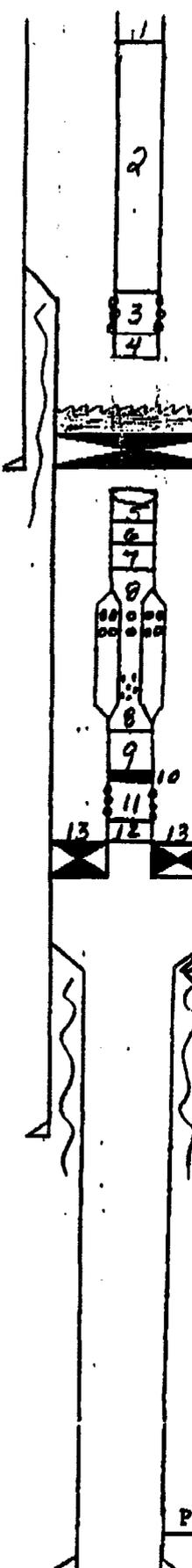
- 13' ⑤ 13' ANCE 2 3/8 B10
  - 1.10' ⑥ + 45 seat nipple
  - 4.21' ⑦ 4.21' 2 3/8 B10 PUP
  - 31.90' ⑧ 4 1/2 N-80 CGA GAS ANCHOR
  - 31.71' ⑨ 1 Jt 2 3/8
  - .80' ⑩ solid plus
  - 30.50' ⑪ PERFW JT 2 3/8
  - 6.18' ⑫ 6.18' 2 3/8 PUP
  - 2.85' ⑬ 7 5/8 M.S.O.T Tbh ANCHOR
- 122.25' carbide SLIPS

★ 7 5/8 RBP won't come through  
 6 3/8 will head

PBTD ? JUNK ON BHA SEE WELL FILE.

T.D. 14040

cost 49,105<sup>00</sup>



K.A.  
 13 3/8 54.5" SURF to 300'  
 APPROX  
 Possible Hole @ 4371'

← @ 9 5/8 47"  
 SURF TO 6812'  
 7 5/8 L. Tap @ 6512'

M.S.O.T  
 P.R. Type 5-E  
 7 5/8 RBP @ 10,216.95'  
 6812' 358's SAND  
 ON TOP.

← @ 7 5/8 33.7"  
 6512'  
 To  
 11,034'

LTO 5 1/2 20"  
 10,906'  
 To  
 14,040'

11,034

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

6. Lease Designation and Serial Number

Fee

7. Indian Allottee or Tribe Name

N/A

8. Unit or Communitization Agreement

N/A

9. Well Name and Number

Brotherson #1-2B4

10. API Well Number

43-013-30062

11. Field and Pool, or Wildcat

Altamont

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter, plugged and abandoned wells.

Use APPLICATION FOR PERMIT—for such proposals.

1. Type of Well  
 Oil Well  
 Gas Well  
 Other (specify)

2. Name of Operator  
 ANR Production Company

3. Address of Operator  
 P. O. Box 749 Denver, CO 80201-0749

4. Telephone Number  
 (303) 573-4476

5. Location of Well  
 Footage 1478' FNL & 1459' FEL  
 CO. Sec. T. R. M. : SW/NE Section 2, T2S-R4W

County : Duchesne  
 State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
 (Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT  
 (Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other Annual Status Report
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start \_\_\_\_\_

Date of Work Completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

\* Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above referenced well is currently being worked on. It was shut-in due to a hole in the casing. The current workover consists of installing a tieback liner, cleaning out the wellbore and acidizing. It is anticipated that the well will be returned to production after this workover.



MAR 19 1992

DIVISION OF  
OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

Name & Signature

*William W. Davis*

Title Regulatory Analyst Date 3/16/92

State Use Only

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 new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals.

6. Lease Designation and Serial Number
Fee
7. Indian Allottee or Tribe Name
N/A
8. Unit or Communitization Agreement
N/A
9. Well Name and Number
Brotherson #1-2B4
10. API Well Number
43-013-30062
11. Field and Pool, or Wildcat
Altamont

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

2. Name of Operator  
 ANR Production Company

3. Address of Operator  
 P. O. Box 749                      Denver, CO 80201-0749

4. Telephone Number  
 (303) 573-4476

5. Location of Well  
 Footage : 1478' FNL & 1459' FEL  
 Q. Sec. T., R., M. : SW/NE Section 2, T2S-R4W

County : Duchesne  
 State : UTAH

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start \_\_\_\_\_

SUBSEQUENT REPORT  
(Submit Original Form Only)

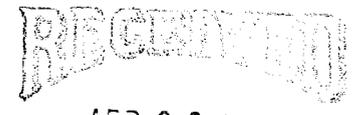
- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of Work Completion 3/11/92

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
Must be accompanied by a cement verification report.

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached chronological history for the work performed to install a tieback liner, cleanout and acidize the above referenced well.



APR 02 1992

DIVISION OF  
OIL GAS & MINING

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

Name & Signature *Green Danni Dey* Title Regulatory Analyst Date 3/30/92

(State Use Only) Green Danni Dey

THE COASTAL CORPORATION  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-2B4 (INSTALL TIEBACK LINER, CO & ACDZ)  
ALTAMONT/BLUEBELL FIELD  
DUCHESNE COUNTY, UTAH  
WI: 48.47202% ANR      AFE: 63665 R1  
TD: 14,040'      PBD: 13,680'  
5-1/2" LINER @ 10,906'-14,007'  
PERFS: 11,011'-13,680' (WASATCH)  
CWC(M\$): \$436.9

PAGE 4

2/13/92      MIRU.  
                    TC: \$212,000

2/14/92      Dress 7-5/8" liner top. ND WH, NU 10" BOP's. POOH w/2-7/8" tbg.

2/15-16/92    Run caliper log. RIH w/dressing mill and dress 7-5/8" liner top.  
                    DC: \$4,659              TC: \$216,659

2/17/92      Run 7-5/8" scab liner. Run caliper log. No tieback receptacle. RIH  
                    w/8-1/2" FB mill and tag @ 6529'. POOH.  
                    DC: \$5,426              TC: \$222,085

2/18/92      Prep to cmt liner. RIH w/7-5/8" scab liner & hanger on 3-1/2" tbg  
                    and tag @ 6529'. POOH w/3-1/2" tbg.  
                    DC: \$12,195             TC: \$234,280

2/19/92      Set cmt retainer @ 6395'. Cmt 7-5/8" tieback liner w/336 sx Class  
                    "G" Premium.  
                    DC: \$66,380             TC: \$300,660

2/20/92      Mill out CICR. RIH w/8-1/2" mill & tag 7-5/8" liner top @ 2927'.  
                    POOH. RIH w/6-5/8" mill & tag CICR @ 6395'.  
                    DC: \$5,155              TC: \$305,815

2/21-23/92    CO sand to RBP. Mill out CFGR & cmt to 6569' and fell to 6862'.  
                    POOH. RIH w/6-5/8" drag bit & circ sand to 9714'.  
                    DC: \$12,954             TC: \$318,769

2/24/92      Cleanout fill to RBP. CO fill from 9,714'-10,195'.  
                    DC: \$6,089              TC: \$324,858

2/25/92      Retrieve RBP. CO fill from 10,195'-10,217'. PT csg to 2000 psi, OK.  
                    POOH w/6-5/8" mill.  
                    DC: \$4,767              TC: \$329,625

2/26/92      Washover fish. RIH w/retr hd and tag RBP @ 10,217'. POOH w/RBP.  
                    RIH w/6-1/8" WO shoe and 5-3/4" WP w/fishing BHA.  
                    DC: \$3,851              TC: \$333,476

2/27/92      POOH w/fishing BHA. Tag fill @ 10,270'. Wash over fish to 10,434'.  
                    DC: \$6,027              TC: \$339,503

2/28-3/1/92    Finish POOH w/fish. RIH w/5-3/4" overshot & fishing tools. Jar  
                    on fish. POOH w/part of fish & 4-1/2" PBGA. RIH w/6-1/8" shoe &  
                    wash over fish (perf jt & TAC) to 10,466'. RIH w/5-3/4" overshot &  
                    jars. Jar fish loose, SOH.  
                    DC: \$16,481             TC: \$355,984

3/2/92      CO 5-1/2" liner. POOH w/remaining fish. RIH w/6-5/8" mill to 5-1/2"  
                    LT @ 10,906'. POOH.  
                    DC: \$4,507              TC: \$360,491

3/3/92      CO 5-1/2" liner. RIH w/4-5/8" mill & CO tools & tag @ 11,254'. CO  
                    5-1/2" liner to 13,615'.  
                    DC: \$5,242              TC: \$365,733

THE COASTAL CORPORATION  
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-2B4 (INSTALL TIEBACK LINER, CO & ACDZ)  
ALTAMONT/BLUEBELL FIELD  
DUCHESNE COUNTY, UTAH  
WI: 48.47202% ANR      AFE: 63665 R1

PAGE 5

3/4/92      CO 5-1/2" liner. CO 5-1/2" liner from 13,615'-13,645'. POOH.  
DC: \$6,256      TC: \$371,989

3/5/92      TFNB. RIH w/4-5/8" mill & CO tools. Tag fill @ 13,645'. CO 5-1/2"  
liner to 13,667'.  
DC: \$4,491      TC: \$376,480

3/6/92      Cont CO 5-1/2" liner. POOH w/4-5/8" mill. Found 43 jts of tbg  
plugged w/mud. Mill had pieces of iron in it, parts of CIBP. RIH  
w/4-5/8" drag bit.  
DC: \$3,016      TC: \$379,496

3/9/92      RIH w/prod string. CO 5-1/2" liner from 13,667'-13,726' w/CO tool.  
POOH & LD same.  
DC: \$5,007      TC: \$384,503

3/10/92      Running rods and pump. TIH w/prod BHA on 2-7/8" tbg. Set TA @  
10,469'. ND BOP. Prep to RIH w/pump and rods.  
DC: \$4,037      TC: \$388,540

3/11/92      Well on pump. Ran pump and rods. Seat pump, test and start up pmpg  
unit. Well on production.  
DC: \$31,658      TC: \$420,198

3/11/92      Pmpd 10 BO, 150 BW, 36 MCF/11 hrs.

3/12/92      Pmpd 4 BO, 353 BW, 179 MCF.

3/13/92      Pmpd 66 BO, 327 BW, 261 MCF.

3/14/92      Pmpd 93 BO, 377 BW, 273 MCF.

3/15/92      Pmpd 82 BO, 423 BW, 239 MCF.

3/16/92      Pmpd 41 BO, 410 BW, 199 MCF.

3/17/92      Pmpd 62 BO, 434 BW, 144 MCF.

3/18/92      Pmpd 72 BO, 427 BW, 146 MCF.

Prior prod: 0 BO, 0 BW, 0 MCF. Final report.

MAY - 8 1995

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:  
**Fee**

6. If Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:  
**9635**

8. Well Name and Number:  
**Brotherson #1-2B4**

9. API Well Number:  
**43-013-30062**

10. Field and Pool, or Wildcat:  
**Altamont**

1. Type of Well:  
OIL  GAS  OTHER:

2. Name of Operator:  
**ANR Production Company**

3. Address and Telephone Number:  
**P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476**

4. Location of Well  
Footages: **1478' FNL & 1459' FEL** County: **Duchesne**  
QQ, Sec., T., R., M.: **SWNE Section 2-T2S-R4W** State: **Utah**

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit In Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- |   |   |
|---|---|
| <input type="checkbox"/> Abandon *                                    | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing                                | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans                              | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Convert to Injection                         | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize                    | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other <u>Lower Seating Nipple</u> |   |

Date of work completion \_\_\_\_\_

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please see the attached morning reports for work performed to lower the seating nipple to enhance production in the subject well.

13. Name & Signature: *N.O. Shiflett* Title: N.O. Shiflett Date: 05/05/95  
District Drilling Manager

(This space for State use only)









### SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:	5. Lease Designation and Serial Number: See Attached
2. Name of Operator: Coastal Oil & Gas Corporation	6. If Indian, Allottee or Tribe Name: See Attached
3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4455	7. Unit Agreement Name: See Attached
4. Location of Well Footages: See Attached QQ, Sec., T., R., M.: See Attached	8. Well Name and Number: See Attached 9. API Well Number: See Attached 10. Field and Pool, or Wildcat: See Attached
	County: See Attached State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

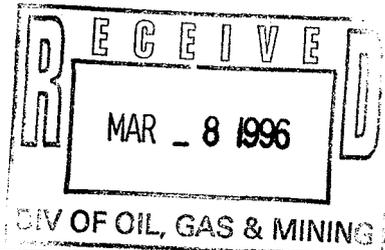
NOTICE OF INTENT (Submit In Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandon * <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input checked="" type="checkbox"/> Other Change of Operator
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Perforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please be advised that effective December 27, 1995, ANR Production Company relinquished and Coastal Oil & Gas Corporation assumed operations for the subject wells (see attached). Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Coastal Oil & Gas Corporation under the following bonds: State of Utah #102103, BLM Nationwide Bond #U605382-9, and BIA Nationwide Bond #11-40-66A. Coastal Oil & Gas Corporation, as operator, agrees to be responsible under the terms and conditions of the leases for the operations conducted upon leased lands.

*Bonnie Carson*  
Bonnie Carson, Sr. Environmental & Safety Analyst  
ANR Production Company



13. Name & Signature: *Sheila Bremer* Title: Sheila Bremer Environmental & Safety Analyst Coastal Oil & Gas Corporation Date: 03/07/96

(This space for State use only)

Well Name & No.	API No.	Lease Designation & Serial Number	If Indian, Allottee or Tribe Name	CA No.	LOCATION OF WELL			
					Footages	Section, Township & Range	Field	County
Evans Ute 2-17B3	43-013-31056	Fee 5326	Ute	96104	1701' FSL & 1474' FWL	NWSW, 17-2S-3W	Altamont	Duchesne
Miles 1-35A4	43-013-30029	Fee 1965	N/A	9618	1980' FNL & 1980' FEL	SWNE, 35-1S-4W	Altamont	Duchesne
Miles 2-35A4	43-013-31087	Fee 1966	N/A	9618	802' FWL & 1530' FSL	NWSW, 35-1S-4W	Altamont	Duchesne
Brotherson 2-11B4	43-013-31078	Fee 541	N/A	9623	944' FSL & 1643' FWL	SESW, 11-2S-4W	Altamont	Duchesne
Brotherson 1-2B4	43-013-30062	Fee 570	N/A	9635	1478' FNL & 1459' FEL	SWNE, 2-2S-4W	Altamont	Duchesne
Brotherson 2-2B4	43-013-30855	Fee 8420	N/A	9635	1371' FSL & 1498' FWL	NESW, 2-2S-4W	Altamont	Duchesne
Broadhead 1-21B6	43-013-30100	Patented 1595	N/A	9639	540' FNL & 2610' FEL	NWNE, 21-2S-6W	Altamont	Duchesne
Ute Brotherson 2-34A4	43-013-30978	Fee 10070	N/A	9640	663' FWL & 1626' FSL	NWSW, 34-1S-4W	Altamont	Duchesne
Rust 2-36A4	43-013-31092	Fee 1577	N/A	9642	1516' FWL & 1955' FSL	NESW, 36-1S-4W	Altamont	Duchesne
Babcock 1-12B4	43-013-30104	Patented 1630	Ute	9643	2248' FNL & 1000' FEL	SENE, 12-2S-4W	Altamont	Duchesne
Babcock 2-12B4	43-013-31005	Fee 10215	N/A	9643	502' FWL & 503' FSL	SWSW, 12-2S-4W	Altamont	Duchesne
Ellsworth 1-9B4	43-013-30118	Patented 16100	N/A	9645	1444' FNL & 700' FEL	SENE, 9-2S-4W	Altamont	Duchesne
Ellsworth 2-9B4	43-013-31138	Fee 10400	N/A	9645	2976' FNL & 2543' FWL	NESW, 9-2S-4W	Altamont	Duchesne
Burton 2-15B5	43-013-31044	Fee 10210	N/A	9646	718' FWL & 1604' FSL	NWSW, 15-2S-5W	Altamont	Duchesne
Tew 2-10B5	43-013-31125	Fee 1756	N/A	9654	851' FWL & 729' FSL	SWSW, 10-2S-5W	Altamont	Duchesne
Goodrich 1-2B3	43-013-30182	Patented 1765	N/A	9655	2347' FSL & 1514' FEL	NWSE, 2-2S-3W	Bluebell	Duchesne
Goodrich 2-2B3	43-013-31246	Fee 11037	N/A	9655	678' FNL & 2235' FWL	NENW, 2-2S-3W	Bluebell	Duchesne
Robb 2-29B5	43-013-31130	Fee 10454	N/A	9656	2214' FWL & 1037' FSL	SESW, 29-2S-5W	Altamont	Duchesne
Ellsworth 1-16B4	43-013-30192	Patented 1735	Ute	9659	1301' FNL & 1101' FEL	NENE, 16-2S-4W	Altamont	Duchesne
Ellsworth 2-16B4	43-013-31046	Fee 10217	N/A	9659	1075' FWL & 1439' FSL	NWSW, 16-2S-4W	Altamont	Duchesne
Lake Fork 2-13B4	43-013-31134	Fee 16452	N/A	9660	963' FWL & 819' FSL	SWSW, 13-2S-4W	Altamont	Duchesne
Jessen 2-21A4	43-013-31256	Fee 11061	N/A	9661	702' FSL & 2182' FWL	SESW, 21-1S-4W	Altamont	Duchesne
Jenkins 1-1B3	43-013-30175	Patented 1790	N/A	9670	1807' FNL & 1888' FWL	SENE, 1-2S-3W	Bluebell	Duchesne
Jenkins 2-1B3	43-013-31117	Fee 1792	N/A	9670	803' FWL & 662' FSL	SWSW, 1-2S-3W	Bluebell	Duchesne
Birch 3-27B5	43-013-31126	Fee 1783	N/A	9671	979' FWL & 1151' FSL	SWSW, 27-2S-5W	Altamont	Duchesne
Lazy K 2-11B3	43-013-31352	Fee 11362	N/A	9672	503' FNL & 2017' FEL	NWNE, 11-2S-3W	Bluebell	Duchesne
Rudy 1-11B3	43-013-30204	Patented 1820	N/A	9672	2111' FSL & 2483' FEL	NWSE, 11-2S-3W	Bluebell	Duchesne
Brotherson 1-24B4	43-013-30229	Fee 1865	N/A	9674	1445' FNL & 1894' FEL	SWNE, 24-2S-4W	Altamont	Duchesne
Brotherson 3-23B4	43-013-31289	Fee 1141	N/A	<del>9674</del>	1177' FSL & 1112' FWL	SWSW, 23-2S-4W	Altamont	Duchesne
Evans 1-19B3	43-013-30265	Fee 1776	N/A	9678	1256' FNL & 893' FEL	NENE, 19-2S-3W	Altamont	Duchesne
Jenkins 2-12B3	43-013-31121	Fee 10459	N/A	9679	1623' FNL & 1047' FEL	SENE, 12-2S-3W	Bluebell	Duchesne
Bleazard 2-28B4	43-013-31304	Fee 11433	N/A	9681	1580' FSL & 2335' FWL	NESW, 28-2S-4W	Altamont	Duchesne
Lamicq 2-5B2	43-013-30784	Fee 2302	N/A	9683	1963' FWL & 803' FSL	SESW, 5-2S-2W	Bluebell	Duchesne
C.R. Aimes 1-23A4	43-013-30375	Fee 5675	Ute	9C133	704' FEL & 1515' FNL	SENE, 23-1S-4W	Altamont	Duchesne
Chandler 1-5B4	43-013-30140	Aprv. 4-11-96 Patented 1685	Ute	NW580	2120' FNL & 1553' FEL	SWNE, 5-2S-4W	Altamont	Duchesne
Chandler 2-5B4	43-013-31000	" Fee 10075	Ute	NW580	466' FSL & 1180' FWL	SWSW, 5-2S-4W	Altamont	Duchesne
Monsen 2-27A3	43-013-31104	" Fee 1746	N/A	NW581	1801' FWL & 2008' FSL	NESW, 27-1S-3W	Altamont	Duchesne
Monsen 3-27A3	43-013-31401	" Fee 11686	N/A	NW581	850' FNL & 1520' FWL	NENW, 27-1S-3W	Altamont	Duchesne
Ute Smith 1-30B5	43-013-30521	Fee 1950	Ute	UT08014987C696	1890' FSL & 624' FEL	NESE, 30-2S-5W	Altamont	Duchesne
Bleazard 1-18B4	43-013-30059	Patented 1565	N/A	N/A	1923' FNL & 2314' FEL	SWNE, 18-2S-4W	Altamont	Duchesne
Bleazard 2-18B4	43-013-31025	Fee 1566	N/A	N/A	857' FWL & 861' FSL	SWSW, 18-2S-4W	Altamont	Duchesne
Bodero 1-15B3	43-013-30565	Fee 2360	N/A	N/A	1370' FNL & 1679' FWL	SENE, 15-2S-3W	Altamont	Duchesne
Broadhead 2-32B5	43-013-31036	Fee 10216	N/A	N/A	1686' FWL & 1116' FSL	SESW, 32-2S-5W	Altamont	Duchesne
Brotherson 1-10B4	43-013-30110	Patented 1614	N/A	N/A	2037' FNL & 2052' FEL	SWNE, 10-2S-4W	Altamont	Duchesne
Brotherson 1-14B4	43-013-30051	Patented 1535	N/A	N/A	2100' FNL & 750' FEL	SENE, 14-2S-4W	Altamont	Duchesne
Brotherson 1-22B4	43-013-30227	Fee 1780	N/A	N/A	1642' FNL & 1297' FEL	SENE, 22-2S-4W	Altamont	Duchesne
Brotherson 1-23B4R	43-013-30483	Patented 8423	N/A	N/A	747' FNL & 2380' FEL	NWNE, 23-2S-4W	Altamont	Duchesne
Brotherson 1-26B4	43-013-30336	Patented 1856	N/A	N/A	1272' FNL & 1408' FEL	NWNE, 26-2S-4W	Altamont	Duchesne
Brotherson 1-28A4	43-013-30292	Patented 1841	N/A	N/A	751' FNL & 1130' FEL	NENE, 28-1S-4W	Altamont	Duchesne

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
UT-922

April 11, 1996

### Memorandum

TO: Superintendent, Uintah and Ouray Agency, Ft. Duchesne, Utah

FROM: Chief, Branch of Fluid Minerals, BLM, Utah State Office, Salt Lake City, Utah

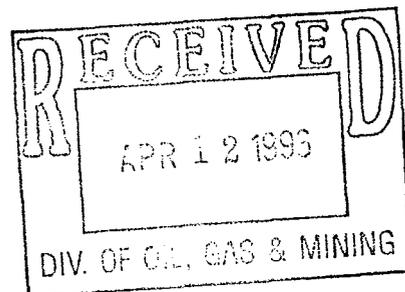
SUBJECT: Successor of Operator, Communitization Agreement's (CA) 96-000018, 96-000023, 96-000035, 96-000039, 96-000040, 96-000042, 96-000043, 96-000045, 96-000046, 96-000049, 96-000054, 96-000055, 96-000056, 96-000059, 96-000060, 96-000061, 96-000070, 96-000071, 96-000072, 96-000074, 96-000078, 96-000079, 96-000081, 96-000085, 96-000104, 9C-000126, 9C-000133, 9C-000138, 9C-000140, UT080149-87C696, UT70814, UTU73743 and UTU73964, Duchesne and Uintah Counties, Utah

The enclosed Designation of Successor of Operators for CA's 96-000018, 96-000023, 96-000035, 96-000039, 96-000040, 96-000042, 96-000043, 96-000045, 96-000046, 96-000049, 96-000054, 96-000055, 96-000056, 96-000059, 96-000060, 96-000061, 96-000070, 96-000071, 96-000072, 96-000074, 96-000078, 96-000079, 96-000081, 96-000085, 96-000104, 9C-000126, 9C-000133, 9C-000138, 9C-000140, UT080149-87C696, UT70814, UTU73743 and UTU73964, Duchesne and Uintah Counties, Utah, have been reviewed by this office and found to be acceptable and we recommend approval. The new operator will be Coastal Oil & Gas Corporation. Upon approval of these Successor of Operators, please return one copy to this office.

If you have any questions, please contact Teresa Thompson at (801) 539-4047.

### Enclosures

bcc: ~~96-000100~~  
CA 's (33)  
DM - Vernal  
Division Oil, Gas & Mining  
Agr. Sec. Chron.  
Fluid Chron



UNITED STATES GOVERNMENT  
memorandum

DATE: August 16, 1996  
REPLY TO  
ATTN OF: Superintendent, Uintah and Ouray Agency  
SUBJECT: Designation of Successor Operator  
TO: Bureau of Land Management, Vernal District Office

We are in receipt of the Designations of Successor Operator for our approval whereby Coastal Oil & Gas Corporation was designated as the new Operator for the Communization Agreements (CA) listed on the attached sheet, Exhibit "A".

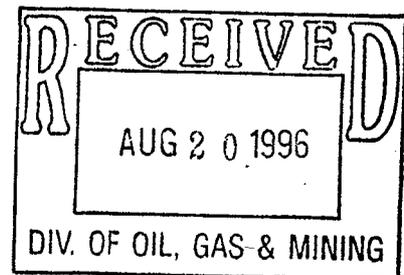
The enclosed instruments were approved on the date of this letter. Coastal's Nationwide Bond will be used to cover all operations, and plugging and abandonment of wells.

If you have any questions, please contact this office at (801) 722-2406, Ext. 51/52/54.

*Charles Cameron*

Enclosures

cc: ~~Lisha Cordova, Utah State DOGM~~  
Theresa Thompson, BLM/SLC



## DESIGNATION OF SUCCESSOR OPERATOR

Communitization Agreement Numbers are listed on attached Exhibit "A"

Designation of successor Operator for communitized area, Counties of Uintah and Duchesne, State of Utah, being:

(See attached Exhibit "A" for description of Communitization Agreements)

THIS INDENTURE, dated as of the 9th day of April, 1996, by and between Coastal Oil & Gas Corporation, hereinafter designated as "First Party", and the owners of communitized working interests, hereinafter designated as "Second Parties",

WHEREAS, under the provisions of the Act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the Act of August 8, 1946, 60 Stat. 950, a Communitization Agreement for the above Communitized Area, effective (see attached Exhibit "A") wherein ANR Production Company is designated as Operator of the communitized area; and

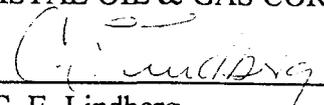
WHEREAS said, ANR Production Company has resigned as Operator, and the designation of successor operator is now required pursuant to the terms thereon; and

WHEREAS the First Party has been and hereby is designated by Second Parties as Operator of the communitized area, and said First Party desires to assume all the rights, duties and obligations of Operator under the said Communitization Agreement.

NOW, THEREFORE, in consideration of the premises hereinbefore set forth and the promises hereinafter stated, the First Party hereby covenants and agrees to fulfill the duties and assume the obligations of Operator of the communitized area under and pursuant to all the terms of said Communitization Agreement, and the Second Parties covenants and agree that, effective upon approval of this indenture by the Chief, Branch of Fluid Minerals, Bureau of Land Management, First Party shall be granted the exclusive right and privilege of exercising any and all rights and privileges as Operator, pursuant to the terms and conditions of said Communitization Agreement; and said Agreement being hereby incorporated herein by referenced and made a part hereof as fully and effectively as though said Agreement were expressly set forth in this instrument.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date hereinabove set forth.

FIRST PARTY  
COASTAL OIL & GAS CORPORATION

By:   
C. E. Lindberg  
Vice President

STATE OF COLORADO )  
 )  
COUNTY OF Denver )

The foregoing instrument was acknowledged before me on the 9th day of April, 1996 by C. E. Lindberg, known to me to be the vice President of Coastal Oil & Gas Corporation, a Delaware corporation, on behalf of said corporation.

Given under my hand and official seal of office on this 9th day of April, 1996.

Gail Anne Bates  
Notary Public in and for the State of Colorado

My Commission Expires:

MY COMMISSION EXPIRES: May 14, 1997  
1314 W. Shepperd Ave., #203B  
Littleton, Colorado 80120



The Designation of Successor Operator is hereby approved this **16th day of August, 1996**, for the Communitization Agreements listed on the attached sheet as Exhibit "A".

Charles H. Cannon  
Acting Superintendent  
BIA - Uintah & Ouray Agency

**Communitization Agreement**

<b>Well Name</b>	<b>Well Location</b>	<b>County</b>	<b>State</b>	<b>Number</b>	<b>Description</b>	<b>Acres</b>	<b>Effective Date</b>
Evans Ute 2-17B3	NWSW, 17-2S-3W	Duchesne	Utah	96104	All Sec. 17-T2S-R3W	640.00	10/01/73
Miles 1-35A4	SWNE, 35-1S-4W	Duchesne	Utah	9618	All Sec. 35-T1S-R4W	640.00	07/01/70
Miles 2-35A4	NWSW, 35-1S-4W	Duchesne	Utah	9618	All Sec. 35-T1S-R4W	640.00	07/01/70
Brotherson 2-11B4	SESW, 11-2S-4W	Duchesne	Utah	9623	All Sec. 11-T2S-R4W	640.00	09/01/70
Brotherson 2-2B4	NESW, 2-2S-4W	Duchesne	Utah	9635	All Sec. 2-T2S-R4W	684.24	03/29/71
Brotherson 1-2B4	SWNE, 2-2S-4W	Duchesne	Utah	9635	All Sec. 2-T2S-R4W	684.24	03/29/71
Broadhead 1-21B6	NWNE, 21-2S-6W	Duchesne	Utah	9639	All Sec. 21-T2S-R6W	640.00	10/21/71
Ute Tribal 2-21B6	SESE, 21-2S-6W	Duchesne	Utah	9639	Sec. 21-T2S-R6W	640.00	10/21/71
Ute 1-34A4	SWNE, 34-1S-4W	Duchesne	Utah	9640	All Sec. 34-T1S-R4W	640.00	09/03/71
Ute Brotherson 2-34A4	NWSW, 34-1S-4W	Duchesne	Utah	9640	All Sec. 34-T1S-R4W	640.00	09/03/71
Rust 2-36A4	NESW, 36-1S-4W	Duchesne	Utah	9642	All Sec. 36-T1S-R4W	640.00	12/08/71
Ute 1-36A4	NENE, 36-1S-4W	Duchesne	Utah	9642	All Sec. 36-T1S-R4W	640.00	12/08/72
Babcock 1-12B4	SENE, 12-2S-4W	Duchesne	Utah	9643	All Sec. 12-T2S-R4W	640.00	02/22/72
Babcock 2-12B4	SWSW, 12-2S-4W	Duchesne	Utah	9643	All Sec. 12-T2S-R4W	640.00	02/22/72
Ellsworth 2-9B4	NESW, 9-2S-4W	Duchesne	Utah	9645	All Sec. 9-T2S-R4W	640.00	03/27/72
Ellsworth 1-9B4	SENE, 9-2S-4W	Duchesne	Utah	9645	All Sec. 9-T2S-R4W	640.00	03/27/72
Burton 2-15B5	NWSW, 15-2S-5W	Duchesne	Utah	9646	All Sec. 15-T2S-R5W	640.00	05/30/72
Ute 1-1B4	SENE, 1-2S-4W	Duchesne	Utah	9649	All Sec. 1-T2S-R4W	688.00	05/15/72
Ute Jenks 2-1B4	NENW, 1-2S-4W	Duchesne	Utah	9649	All Sec. 1-T2S-R4W	688.00	05/15/72
Tew 2-10B5	SWSW, 10-2S-5W	Duchesne	Utah	9654	All Sec. 10-T2S-R5W	640.00	09/26/72
Goodrich 1-2B3	NWSE, 2-2S-3W	Duchesne	Utah	9655	All Sec. 2-T2S-R3W	645.84	09/15/72
Goodrich 2-2B3	NENW, 2-2S-3W	Duchesne	Utah	9655	All Sec. 2-T2S-R3W	645.84	09/15/72
Robb 2-29B5	SESW, 29-2S-5W	Duchesne	Utah	9656	All Sec. 29-T2S-R5W	640.00	10/01/72
Ellsworth 1-16B4	NENE, 16-2S-4W	Duchesne	Utah	9659	All Sec. 16-T2S-R4W	640.00	10/04/72
Ellsworth 2-16B4	NWSW, 16-2S-4W	Duchesne	Utah	9659	All Sec. 16-T2S-R4W	640.00	10/04/72
Lake Fork 2-13B4	SWSW, 13-2S-4W	Duchesne	Utah	9660	All Sec. 13-T2S-R4W	640.00	10/26/72
Jessen 2-21A4	SESW, 21-1S-4W	Duchesne	Utah	9661	All Sec. 21-T1S-R4W	640.00	09/01/72
Jenkins 2-1B3	SWSW, 1-2S-3W	Duchesne	Utah	9670	All Sec. 1-T2S-R3W	644.92	11/30/72
Jenkins 1-1B3	SENW, 1-2S-3W	Duchesne	Utah	9670	All Sec. 1-T2S-R3W	644.92	11/30/72
Birch 3-27B5	SWSW, 27-2S-5W	Duchesne	Utah	9671	All Sec. 27-T2S-R5W	640.00	01/30/73
Lazy K 2-11B3	NWNE, 11-2S-3W	Duchesne	Utah	9672	All Sec. 11-T2S-R3W	640.00	01/30/73
Rudy 1-11B3	NWSE, 11-2S-3W	Duchesne	Utah	9672	All Sec. 11-T2S-R3W	640.00	01/30/73
Brotherson 1-24B4	SWNE, 24-2S-4W	Duchesne	Utah	9674	All Sec. 24-T2S-R4W	640.00	03/13/73
Evans 2-19B3	NESW, 19-2S-3W	Duchesne	Utah	9678	All Sec. 19-T2S-R3W	632.66	01/22/73
Evans 1-19B3	NENE, 19-2S-3W	Duchesne	Utah	9678	All Sec. 19-T2S-R3W	632.66	01/22/73
Ute 3-12B3	SWNW, 12-2S-3W	Duchesne	Utah	9679	All Sec. 12-T2S-R3W	640.00	04/16/73

Communitization Agreement

<i>Well Name</i>	<i>Well Location</i>	<i>County</i>	<i>State</i>	<i>Number</i>	<i>Description</i>	<i>Acres</i>	<i>Effective Date</i>
Jenkins 2-12B3	SENE, 12-2S-3W	Duchesne	Utah	9679	All Sec. 12-T2S-R3W	640.00	04/16/73
Bleazard 2-28B4	NESW, 28-2S-4W	Duchesne	Utah	9681	All Sec. 28-T2S-R4W	640.00	03/15/73
Ute 1-28B4	SWNE, 28-2S-4W	Duchesne	Utah	9681	All Sec. 28-T2S-R4W	640.00	03/15/73
Murdock 2-34B5	NESW, 34-2S-5W	Duchesne	Utah	9685	All Sec. 34-T2S-R5W	640.00	02/12/73
Ute Tribal 10-13A4	NWNE, 13-1S-4W	Duchesne	Utah	9C-126	All Sec. 13-T1S-R4W	640.00	03/10/74
C.R. Aimes 1-23A4	SENE, 23-1S-4W	Duchesne	Utah	9C133	All Sec. 23-T1S-R4W	640.00	03/01/74
Ute 1-8A1E	SWNE, 8-1S-1E	Uintah	Utah	9C138	All Sec. 8-T1S-R1E	640.00	10/21/74
Ute 2-33Z2	SWSW, 33-1N-2W	Duchesne	Utah	9C140	All Sec. 33-T1N-R2W	640.00	08/01/75
Ute Tribal 1-33Z2	SWNE, 33-1N-2W	Duchesne	Utah	9C140	All Sec. 33-T1N-R2W	640.00	08/01/75
Ute Smith 1-30B5	NESE, 30-2S-5W	Duchesne	Utah	UT080I4987C696	All Sec. 30-T2S-R5W	609.24	06/18/81
Myrin Ranch 2-18B3	NWSW, 18-2S-3W	Duchesne	Utah	UTU70814	All Sec. 18-T2S-R3W	629.70	11/05/92
Ute Tribal 2-22B6	SESE, 22-2S-6W	Duchesne	Utah	UTU73743	Sec. 22-T2S-R6W	640.00	09/06/94
Ute 1-15B6	NWSW, 15-2S-6W	Duchesne	Utah	UTU73964	All Sec. 15-T2S-T6W	640.00	04/11/95

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing: *GH*

1-LEC-7-53
2-DTS 8-FILE
3-VID
4-RPT
5-LEC
6-FILM

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator       Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-27-95)

TO (new operator)	<u>COASTAL OIL &amp; GAS CORP</u>	FROM (former operator)	<u>ANR PRODUCTION CO INC</u>
(address)	<u>PO BOX 749</u>	(address)	<u>PO BOX 749</u>
	<u>DENVER CO 80201-0749</u>		<u>DENVER CO 80201-0749</u>
	<u>phone (303) 572-1121</u>		<u>phone (303) 572-1121</u>
	<u>account no. N 0230 (B)</u>		<u>account no. N0675</u>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>D13-30667</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- Yes* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 3-8-96)*
- Yes* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 3-8-96)*
- N/A* 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A* 4. (For **Indian and Federal Wells ONLY**) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes* 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(3-11-96) (4-3-96/Indian) (4-15-96/Fee C.A.'s) (8-20-96/Indian C.A.'s)*
- Yes* 6. Cardex file has been updated for each well listed above.
- Yes* 7. Well file labels have been updated for each well listed above.
- Yes* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(3-11-96)*
- Yes* 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) \_\_\_\_ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only) Surety No. U605382-1 (\$80,000) United Pacific Ins. Co.

- Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- \_\_\_\_ 2. A copy of this form has been placed in the new and former operators' bond files. *\* Upon Compl. of routing.*
- Yes 3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_ Today's date March 11, 1996. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_. *(Same Bond as Coastal)*

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- \_\_\_\_ 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- Yes 1. All attachments to this form have been microfilmed. Date: 1-7 1997.

FILING

- \_\_\_\_ 1. Copies of all attachments to this form have been filed in each well file.
- \_\_\_\_ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

- 960311 This change involves Fee lease / non C.A. wells ~~only~~ State lease wells.  
~~C.A. & Indian lease wells will be handled on separate change.~~
- 960412 BLM/SL Aprv. C.A.'s 4-11-96.
- 960820 BIA Aprv. CA's 8-16-96.
- 960329 BIA Aprv. Indian Lease wells 3-26-96.
- WE71/34-35 \*961107 Lemicy 2-582/43-013-30784 under review at this time; no dg. yet!

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
**FEE**

6. Indian, Allottee or Tribe Name:  
**N/A**

7. Unit Agreement Name:

8. Well Name and Number:  
**Brotherson #1-2B4**

9. API Well Number:  
**43-013-30062**

10. Field and Pool, or Wildcat  
**Altamont Field**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator

**Coastal Oil & Gas Corporation**

3. Address and Telephone Number.

**(435) 781-7021**

4. Location of Well

Footages: **1478' FNL 1459' FEL**

County: **Duchesne**

QQ,Sec., T., R., M.: **SW NE SECTION 2-T2S-R4W**

State: **UT**

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- |  |  |
|--|--|
| <input type="checkbox"/> Abandon   | <input type="checkbox"/> New Construction          |
| <input type="checkbox"/> Repair Casing   | <input type="checkbox"/> Pull or Alter Casing      |
| <input type="checkbox"/> Change of Plans   | <input type="checkbox"/> Recomplete                |
| <input type="checkbox"/> Convert to Injection  | <input type="checkbox"/> Perforate                 |
| <input checked="" type="checkbox"/> Fracture Treat or Acidize                                | <input type="checkbox"/> Vent or Flare             |
| <input type="checkbox"/> Multiple Completion   | <input checked="" type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Water shut off, cleanout, acidize, sub pump</u> |  |

Approximate date work will start upon approval

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon*                  | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans           | <input type="checkbox"/> Perforate            |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other _____               |   |

Date of work completion \_\_\_\_\_

Report results of **Multiple Completions** and **Recompletions** to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Coastal Oil & Gas Corporation requests permission to shut water off, cleanout, acidize, and install a submersible pump in the above referenced well.

Attached is a copy of the workover procedure.

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DIVISION OF  
OIL, GAS AND MINING

13. Name & Signature Deanna Bell Title Environmental Secretary Date 4/25/00

(This space for State use only)

# Work over Procedure

Brotherson 1-2B4

Sec. 2 – T2S – R4W  
Altamont Field  
Duchesne County, Utah

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Elevation: 6254' GL 6269' KB

MAY 01 2000

Total Depth: 14,040' PBSD 13,739'

DIVISION OF  
OIL, GAS AND MINING

Casing: 13 7/8", 54.5# ST&C set @ 300'  
9-5/8", 47#, ST&C S-95 set @ 6,812'  
7 5/8", 33.7#, S-95 set @ 11,034'. TOL @ 6,512'  
7 5/8", 33.7#, P-110 Tieback set @ 6,512'. TOL @ 2,923'.  
5 1/2", 18#, S-95 liner set @ 14,040' w/ top of liner @ 10,906'

Tubing: 2-7/8", 6.5#, N-80  
End of tubing @ 10,398'

Perforations: 1,505 holes from 11,011' to 13,680'

## Tubular Data:

Description	ID inches	Drift Inches	Capacity bbls / ft	Burst psi	Collapse psi
9-5/8", 47#, S-95	8.681	8.525	.0732	8,150	5,080
7 5/8", 33.7#, S-95	6.765	6.64	.0445	9,380	7,260
7 5/8", 33.7#, P-110	6.765	6.64	.0445	10,860	7,850
5 1/2", 20#, S-95	4.778	4.653	.0221	10,910	10,000
3 1/2", 9.3#, P-110	2.992	2.867	.0087	13,970	12,620
2 7/8", 6.5#, P-105	2.441	2.347	.00579	13,870	14,010

## Present Status:

Shut In.

## Objective:

The objective is to shut off the water flow behind casing and stimulate the Wasatch formation in a single stage.

## Brotherson 1-2B4

Sec. 2 – T2S – R4W  
Altamont Field  
Duchesne County, Utah

### Procedure:

1. MI & RU work over rig. POOH w/ 2 7/8" N-80 open ended tubing.
2. PU & RIH w/ 7 5/8" Retrieval Bridge Plug and set @ 10,796'. Fill Casing and Pressure Test to 2000 psi. If pressure holds continue to step 3; use field analysis to design squeeze if Pressure Test fails.
3. RU wire line unit. Perforate four squeeze holes @ 9,810'. POOH. PU & RIH w/ CICR. Set @ 9,760'. Depths correlate to OWP CBL run 10/4/99. Est. injection rate w/ rig pumps. If injection rate is less than 3 bbls/min @ 2,000 psi, consider leading cement job w/ 8 bbls 15% HCl.
4. MIRU service company. Establish injection rate. Sting out of CICR and spot 8 bbls 15% HCl at end of tubing. Sting into CICR, pump 50 bbls fresh water, 10 bbls CW-7 chemical wash, 5 bbl spacer, follow w/ Class G cement, and tail in w/ Class G w/ .60% B14 fluid loss additive and .10% D6 dispersant (Cement volume to be dictated by field analysis of injection characteristics). Squeeze to max pressure of 2000 psi. Sting out of CICR and reverse circulate w/ 85 bbls of water. PUH above calculated cement top behind pipe. Allow cement to set.
5. POOH w/ 2 7/8" tbg. RU & RIH w/ temperature survey. Analyze w/ field & Houston engineering.
6. RIH w/ 6 5/8" Rock Bit, drill collars, and 2 7/8" work string. CO to RBP. POOH & lay down drill collars and bit. PU & RIH w/ retrieving head. Release RBP & POOH.
7. RIH w/ full drift gauge ring. If bridges or fill are tagged above bottom perf (13,680'), PU & RIH w/ 4 5/8" CO tools. CO to PBTB.
8. RIH w/ 5 1/2" packer, 3 1/2" P-110 tubing, and 2 7/8" P-105 tbg. Set pkr @  $\pm$  10,950'. Linertop @ 10,906'. Top perf @ 11,011'.
9. MI & RU Service Co. Fill casing annulus w/ KCl water and hold 500 psi throughout job. Acidize perms 11,011' to 13,680' (1,505 holes) w/ 45,000 gal 15% HCl as per attached schedule at maximum pressure of 9,000 psi.
10. Swab to establish inflow, RIse packer, & POOH.
11. ESP design to be determined by fluid level after swabbing load. Consult with engineering.

BROTHERSON 1-2B4

Fluid Description	Stage (#)	KCl		Gelled 10 ppg Brine		15% HCl Acid		Ball Sealers (#)	
		Gal	Bbls	Gal	Bbls	Gal	Bbls		
Pad	1	4,200	100.0	---	---	---	---	400	SLUG
Diverter	2	---	---	3,500	83.3	---	---	---	
Acid	3	---	---	---	---	7,500	178.6	400	SLUG
Diverter	4	---	---	3,500	83.3	---	---	---	
Acid	5	---	---	---	---	7,500	178.6	400	SLUG
Diverter	6	---	---	3,500	83.3	---	---	---	
Acid	7	---	---	---	---	7,500	178.6	300	balldropper
Diverter	8	---	---	3,500	83.3	---	---	---	
Acid	9	---	---	---	---	7,500	178.6	300	balldropper
Diverter	10	---	---	3,500	83.3	---	---	---	
Acid	11	---	---	---	---	7,500	178.6	300	balldropper
Diverter	12	---	---	3,500	83.3	---	---	---	
Acid	13	---	---	---	---	7,500	178.6	300	balldropper
Flush	14	6,972	166.0	---	---	---	---	---	
<b>Totals</b>		11,172	266.0	21,000	500.0	45,000	1071.4	2,400	

Packer set @ 10,950'  
 Perforations from 11,011'-13,680' (1,505 HOLES)  
 Gelled 10 ppg brine to contain 1 ppg rock salt.  
 Ball Sealers to be 1.3 SG  
 Treatment down 3 1/2" tubing @ 9000 psi MTP

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DIVISION OF  
 OIL, GAS AND MINING

BROTHERSON 1-2B4  
SECTION 2 TOWNSHIP 2 SOUTH RANGE 4 WEST  
GREATER ALTAMONT FIELD  
DUCESNE COUNTY, UTAH  
CHRONOLOGICAL HISTORY PAGE 1

5/23/71 RIH w/ 8 jts 54.5# ST&C 13 7/8" CSG. Cmted w/ 400 sx returns to surf  
6/16/71 RIH w/ 166 jts 9 5/8" 47# ST&C S-95 csg @ 6,812'. Cmted w/  
1175 sx Class G  
7/18/71 RIH w/ 119 jts 7 5/8" 33.7# S-95. Liner @ 11,034'. Cmted w/  
540 sx G cmt. Liner Hanger @ 6,512'. Set CICR @ 6,401' pmped 200 sx  
Class G. Pressure Test Liner to 2500# (HELD)  
9/13/71 Ran 73 jts 5 1/2" 20# S-95 w/ Liner Top @ 10,906'  
9/14/71 Set CICR @ 10,706' pmped 500 sx Class G cmt  
10/71 Perforate from 11,722' to 13,680' w/ 276 holes  
10/13/71 Flowed 1929 BO, 277 BW, 2730 MCF  
  
5/72 Acidize w/ 30,000 gals 15% HCl  
  
9/75 Acidize w/ 4,000 gals 15% HCl  
  
1/76 initiated Gas Lift  
  
4/76 Perforate from 11,740' to 13,661' 824 holes  
4/78 Perforate from 11,431' to 13,501' 327 holes  
5/78 Acidize w/ 56,000 gals 7.5% HCl  
  
6/1/79 Acidize w/ 3780 gals 15% HCl & BAF  
  
3/11/82 CO to 13,721'  
3/12/82 Set CIBP @ 11,400'  
3/15/82 Perforate from 11,011' to 11,374' 78 holes  
3/23/82 Acidize perfs from 11,012' to 11,374' w/ 14,500 gals 7.5% HCl  
3/25/82 to Co CIBP, stick tubing, Chemical Cut, Pmp Dowell protective zone & BAF  
4/19/82 to plug perfs & est. circ. FISH tubing. Push CIBP to 13,680'.  
  
7/21/89 CO to 13,630'

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DIVISION OF  
OIL, GAS AND MINING

BROTHERSON 1-2B4  
SECTION 2 TOWNSHIP 2 SOUTH RANGE 4 WEST  
GREATER ALTAMONT FIELD  
DUCHESNE COUNTY, UTAH  
CHRONOLOGICAL HISTORY PAGE 2

9/3/91 Set RBP @ 10,235'  
9/17/91 Isolate casing leak from 4,390' to 4,454'  
9/18/91 Mix and Spot 200 sx Balanced plug  
9/19/91 CO and est Inj Rate @ 2bpm 1500 psi  
9/20/91 pmp 200 sx  
9/23/91 Tubing stuck. Chemical cut tbg and washover  
9/30/91 PT & Inj Rate 2 bpm @ 900 psi  
10/1/91 Mix and spot 300 sx  
10/4/91 CO and PT to 2000# lost 550# in 5 min. Formation filling in.

2/18/92 RIH w/ 85 jts P-110 7 5/8" tieback liner. Set CICR @ 6,395' & cmt w/  
336 sx.  
2/25/92 DO cmt and PT to 2000# (HELD)  
3/8/92 CO to 13,739'  
3/11/92 Well on Production

10/1/99 POOH w/ rods,tbg, bha. TAC scaled up. Set 7 5/8" RBP @ 10,796'. Set  
HD pkr @ 10,659'. PT dn tubing to 2000# (HELD) PT dn csg to 1000#  
(HELD)  
10/5/99 RIH w/ temp log...fluid entry @ 4,200' behind csg going dn behind pipe  
below RBP. Run CBL log from 10,782' to 9,000'. Cmt Top @ 9,780'.  
10/6/99 Rls RBP and POOH. RIH w/ 2 7/8" tbg +45 SN. EOT @ 10,398'

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number  
Fee

6. Indian, Allottee or Tribe Name:  
N/A

7. Unit Agreement Name:  
CA #96-35

8. Well Name and Number:  
Brotherson #1-2B4

9. API Well Number:  
43-013-30062

10. Field and Pool, or Wildcat  
Altamont

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such purposes

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator  
Coastal Oil & Gas Corporation

3. Address and Telephone Number.  
P.O. Box 1148, Vernal UT 84078 (435)781-7023

4. Location of Well  
Footages: 1478'FNL & 1459'FEL' County: Duchesne  
QQ,Sec., T., R., M.: SE/NE Sec.2,T2S,R4W State: UT

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandon	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandon*	<input type="checkbox"/> New Construction
<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Repair Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Perforate
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Perforate	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat or Acidize	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Clean-out / Acidize</u>	
<input type="checkbox"/> Other _____		Date of work completion _____	
Approximate date work will start _____		Report results of <b>Multiple Completions</b> and <b>Recompletions</b> to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.	
		* Must be accompanied by a cement verification report.	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Water shut off, C/O, Acidize, Install ESP on subject well and placed well back on production on 8/1/00.

13. Name & Signature Katy Dow Title Jr. Regulatory Analyst Date 8/25/00

(This space for State use only)

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
7. UNIT or CA AGREEMENT NAME:  
8. WELL NAME and NUMBER:  
Exhibit "A"  
9. API NUMBER:  
10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
El Paso Production Oil & Gas Company

3. ADDRESS OF OPERATOR: 368 South 1200 East CITY Vernal STATE Utah ZIP 84078 PHONE NUMBER: 435-789-4433

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: \_\_\_\_\_ COUNTY: \_\_\_\_\_  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_ STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Name Change</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

As a result of the merger between The Coastal Corporation and a wholly owned subsidiary of El Paso Energy Corporation, the name of Coastal Oil & Gas Corporation has been changed to El Paso Production Oil & Gas Company effective March 9, 2001.

See Exhibit "A"

Bond # 400JU0708

Coastal Oil & Gas Corporation  
NAME (PLEASE PRINT) John T. Elzner TITLE Vice President  
SIGNATURE [Signature] DATE 06-15-01

El Paso Production Oil & Gas Company  
NAME (PLEASE PRINT) John T. Elzner TITLE Vice President  
SIGNATURE [Signature] DATE 06-15-01

(This space for State use only)

RECEIVED

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING

State of Delaware  
Office of the Secretary of State

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PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COASTAL OIL & GAS CORPORATION", CHANGING ITS NAME FROM "COASTAL OIL & GAS CORPORATION" TO "EL PASO PRODUCTION OIL & GAS COMPANY", FILED IN THIS OFFICE ON THE NINTH DAY OF MARCH, A.D. 2001, AT 11 O'CLOCK A.M.

RECEIVED

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

0610204 8100

AUTHENTICATION: 1061007

010162788

DATE: 04-03-01

CERTIFICATE OF AMENDMENT  
OF  
CERTIFICATE OF INCORPORATION

COASTAL OIL & GAS CORPORATION (the "Company"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware, DOES HEREBY CERTIFY:

FIRST: That the Board of Directors of the Company, by the unanimous written consent of its members, filed with the minutes of the Board, adopted a resolution proposing and declaring advisable the following amendment to the Certificate of Incorporation of the Company:

RESOLVED that it is deemed advisable that the Certificate of Incorporation of this Company be amended, and that said Certificate of Incorporation be so amended, by changing the Article thereof numbered "FIRST." so that, as amended, said Article shall be and read as follows:

"FIRST. The name of the corporation is El Paso Production Oil & Gas Company."

SECOND: That in lieu of a meeting and vote of stockholders, the stockholders entitled to vote have given unanimous written consent to said amendment in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

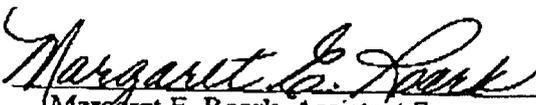
THIRD: That the aforesaid amendment was duly adopted in accordance with the applicable provisions of Sections 242 and 228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said COASTAL OIL & GAS CORPORATION has caused this certificate to be signed on its behalf by a Vice President and attested by an Assistant Secretary, this 9th day of March 2001.

COASTAL OIL & GAS CORPORATION

  
\_\_\_\_\_  
David L. Siddall  
Vice President

Attest:

  
\_\_\_\_\_  
Margaret E. Roark, Assistant Secretary

RECEIVED

STATE OF DELAWARE  
SECRETARY OF STATE  
DIVISION OF CORPORATIONS  
FILED 11:00 AM 03/09/2001  
010118394 - 0610204

JUN 19 2001

DIVISION OF  
OIL, GAS AND MINING

**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. GLH		4-KAS
2. CDW	<input checked="" type="checkbox"/>	5-LP
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

**X** Merger

The operator of the well(s) listed below has changed, effective: **3-09-2001**

<b>FROM: (Old Operator):</b>
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

<b>TO: ( New Operator):</b>
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

**CA No.**

**Unit:**

**WELL(S)**

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
EVANS 2-19B3 (CA 96-78)	43-013-31113	1777	19-02S-03W	FEE	OW	P
HANSON 1-2B3	43-013-30629	2390	24-02S-03W	FEE	OW	P
<b>BROTHERSON 1-2B4</b> (CA 96-35)	43-013-30062	1570	02-02S-04W	FEE	OW	P
BROTHERSON 2-2B4 (CA 96-35)	43-013-30855	8420	02-02S-04W	FEE	OW	P
BROTHERSON 2-3B4	43-013-31008	10165	03-02S-04W	FEE	OW	P
OMAN 2-4B4	43-013-30645	9125	04-02S-04W	FEE	OW	P
CHRISTENSEN 3-4B4	43-013-31142	10481	04-02S-04W	FEE	OW	S
CHANDLER 1-5B4 (CA NW-580)	43-013-30140	1685	05-02S-04W	FEE	OW	P
CHANDLER 2-5B4 (CA NW-580)	43-013-31000	10075	05-02S-04W	FEE	OW	P
CROOK 1-6B4	43-013-30213	1825	06-02S-04W	FEE	OW	S
POTTER 2-6B4	43-013-31249	11038	06-02S-04W	FEE	OW	P
FARNSWORTH 1-7B4	43-013-30097	1600	07-02S-04W	FEE	OW	S
FARNSWORTH 2-7B4	43-013-30470	1935	07-02S-04W	FEE	OW	P
ELLSWORTH 1-8B4	43-013-30112	1655	08-02S-04W	FEE	OW	P
ELLSWORTH 2-8B4	43-013-30898	2418	08-02S-04W	FEE	OW	P
ELLSWORTH 1-9B4 (CA 96-45)	43-013-30118	1660	09-02S-04W	FEE	OW	P
ELLSWORTH 2-9B4 (CA 96-45)	43-013-31138	10460	09-02S-04W	FEE	OW	S
BROTHERSON 1-10B4	43-013-30110	1614	10-02S-04W	FEE	OW	P
BROTHERSON 2-10B4	43-013-30443	1615	10-02S-04W	FEE	OW	P
BROTHERSON 2-11B4	43-013-31078	1541	11-02S-04W	FEE	OW	P

**OPERATOR CHANGES DOCUMENTATION**

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
- Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

---

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 07/03/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 07/03/2001
3. Bond information entered in RBDMS on: 06/20/2001
4. Fee wells attached to bond in RBDMS on: 07/03/2001

---

**STATE BOND VERIFICATION:**

1. State well(s) covered by Bond No.: N/A

---

**FEE WELLS - BOND VERIFICATION/LEASE INTEREST OWNER NOTIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed has furnished a bond: 400JU0708
2. The **FORMER** operator has requested a release of liability from their bond on: COMPLETION OF OPERATOR CHANGE  
The Division sent response by letter on: N/A
3. (R649-2-10) The **FORMER** operator of the Fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: COMPLETION OF OPERATOR CHANGE

---

**FILMING:**

1. All attachments to this form have been **MICROFILMED** on: 8/15/01

---

**FILING:**

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filed in each well file on: \_\_\_\_\_

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**COMMENTS: Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".**

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Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. DJJ
2. CDW

Change of Operator (Well Sold)

**X Operator Name Change**

The operator of the well(s) listed below has changed, effective: <u>7/1/2006</u>	
<b>FROM:</b> (Old Operator): N1845-El Paso Production O&G Company 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2300	<b>TO:</b> ( New Operator): N3065-El Paso E&P Company, LP 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2131
<b>CA No.</b>	<b>Unit:</b>

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 7/5/2006
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 7/5/2006
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/30/2006
- Is the new operator registered in the State of Utah: YES Business Number: 2114377-0181
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2) Waste Management Plan has been received on: \_\_\_\_\_ requested 7/18/06
- Inspections of LA PA state/fee well sites complete on: ok
- Reports current for Production/Disposition & Sundries on: \_\_\_\_\_
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA not yet
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: not yet
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 7/14/2006

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 7/19/2006
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/19/2006
- Bond information entered in RBDMS on: 7/19/2006
- Fee/State wells attached to bond in RBDMS on: 7/19/2006
- Injection Projects to new operator in RBDMS on: 7/19/2006
- Receipt of Acceptance of Drilling Procedures for APD/New on: 7/5/2006

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 400JU0708
- The **FORMER** operator has requested a release of liability from their bond on: n/a applicable wells moved  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/20/2006

**COMMENTS:**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>MULTIPLE LEASES</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>SEE ATTACHED</b>
2. NAME OF OPERATOR: <b>EL PASO PRODUCTION OIL AND GAS COMPANY</b> <i>N1845</i>		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1339 EL SEGUNDO AVE NE ALBUQUERQUE NM 87113	PHONE NUMBER: (505) 344-9380	10. FIELD AND POOL, OR WILDCAT: <b>SEE ATTACHED</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>SEE ATTACHED</b>		COUNTY: <b>UINTAH &amp; DUCHESNE</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: <u>CHANGE OF OPERATOR</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

PLEASE BE ADVISED THAT EL PASO PRODUCTION OIL AND GAS COMPANY (CURRENT OPERATOR) HAS TRANSFERRED ITS OPERATORSHIP TO EL PASO E&P COMPANY, L.P. (NEW OPERATOR) EFFECTIVE ~~JUNE 30~~ *July 1,* 2006 AND THAT EL PASO E&P COMPANY, L.P. IS CONSIDERED TO BE THE NEW OPERATOR OF THE ATTACHED WELL LOCATIONS.

EL PASO E&P COMPANY, L.P. IS RESPONSIBLE UNDER THE TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASED LANDS. BOND COVERAGE IS PROVIDED BY THE STATE OF UTAH STATEWIDE BLANKET BOND NO. 400JU0705, BUREAU OF LAND MANAGEMENT NATIONWIDE BOND NO. 103601420, AND BUREAU OF INDIAN AFFAIRS NATIONWIDE BOND NO. 103601473.

El Paso E & P Company, L. P. *N3065*  
1001 Louisiana  
Houston, TX 77002

*William M. Griffin*  
William M. Griffin, Sr. Vice President

NAME (PLEASE PRINT) <b>CHERYL CAMERON</b>	TITLE <b>AUTHORIZED REGULATORY AGENT</b>
SIGNATURE <i>Cheryl Cameron</i>	DATE <b>6/20/2006</b>

(This space for State use only)

**APPROVED** *7/19/06*  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(5/2000)

(See Instructions on Reverse Side)

RECEIVED  
JUL 05 2006  
DIV. OF OIL, GAS & MINING



Recompletion Procedure  
 Brotherson 1-2B4  
 Section 2, T2S, R4W  
 Altamont-Bluebell Field  
 Duchesne County, Utah

COMPANY PERSONNEL

Title	Name	Office	Mobile	Home
Production Manager	Frank Seidel	(303) 291-6436	(303) 945-1049	(720) 524-8693
Production Engineer	Doug Sprague	(303) 291-6433	(303) 957-6176	(303) 627-4970
Production Foreman	Gary Lamb	(435) 454-4224	(435) 823-1443	(435) 454-3537

TUBULAR DATA

Material	Description	Burst (100%)	Col (100%)	Body Yield	Jt Yield	ID	Drift ID	Cap CF/LF	TOC
Surface Casing	9 5/8" 40# S-95 @ 6,812'	6820	4230	1088	858	8.835	8.679	.4257	UNKN No CBL
Intermediate Liner	7 5/8" 33.7# S-95 from 6,512' to 11,034'	9380	8800	923	957	6.765	6.640	.2496	9,825' (CBL)
Production Liner	5 1/2" 20# S-95 @ 10,906' to 14,040'	10910	10630	554	585	4.778	4.653	.1245	Est. TOL
Production Tubing	2-7/8" 6.5# N-80 8rd	10570	11160			2.441	2.347	.0325	

1. MIRU workover rig. Load well with TPW. POOH and lay down rods and pump.
2. ND wellhead. NU and test BOP. POOH with tubing. Lay down BHA.
3. RIH with 8 1/2" bit, 9 5/8" casing scraper and DC's and clean wellbore to top of liner (6,512'). Circulate well clean. POOH.
4. RIH with 6 1/2" bit, 7 5/8" casing scraper and DC's and clean liner to 10,906'. Circulate well clean. POOH.
5. RU EL. RIH and set 5 1/2" CIBP at 11,075'. Dump 120' of cement on top. RD EL.
6. Pressure test casing to 1,500 psi. If leak is detected, isolate with packer. Establish breakdown. Design squeeze job based on breakdown data and squeeze leak. Drill out and test squeeze. Circulate hole clean. POOH laying down tubing.

7. RU EL w/ 5K lubricator and test to 5,000 psi with water. RIH and shoot the intervals of Stage # 1 per the attached schedule with 3-1/8" HSC, 22.7 gm charges, **SPF as noted** and 120° phasing. Perforate first interval under 500 psig surface pressure. Record any changes in fluid level or wellhead pressure while perforating. RD WL unit. Lay and stake hardline to pit, NU chokes on casing valves.
8. Pick up treating packer with circulating port and RIH with 4 1/2" frac string. Set packer at 10,100'±. Test frac string to 8,500 psi.
9. MI and RU stimulation company and wellhead isolation tool.
10. Break down perforations with 5 drums of Champion paraffin chemical mixed with 20 barrels of diesel followed by 5,000 gallons 15% HCl acid at 20 to 30 bpm. Run 160 Bio-Ball (Brown or Green) sealers evenly dispersed in the acid. **Maximum allowable surface pressure is 8,500 psi. Anticipated frac gradient is 0.75 psi/ft.** All fluids to contain 2% KCl substitute, scale inhibitor, biocide, and 2.0 gpt MA-844 provided by frac company. Bottom hole static temperature is 178° F at 10,603' (Mid perf). Overflush acid 10 bbls to bottom perf with 2% KCl water. Shut down. Isolate well head and continue to monitor well head pressure with stimulation company's data recorder for 15 minutes. Surge ball sealers. Leave well shut in for 60 minutes total to allow Bio-Balls to dissolve. Remove ball guns from treating line and re-pressure test treating line to 9,500 psig during shut in period.
11. Pump the Stage # 1 crosslinked gel frac treatment with 125,000 lbs **20/40 SinterLite Bauxite** per the attached schedule. All fluids to contain 2% KCl substitute, scale inhibitor, biocide, and 2.0 gpt MA-844 provided by frac company. Heat the treating water to achieve +/- 120°F the day of the frac. Tag job with three RA isotopes. RA #1 in 100 mesh; RA #2 in 1.0 and 2.0 psa; RA #3 in 3.0 and 4.0 psa. Designed pump rate is ramped up to 65 bpm; **maximum surface pressure is to be 8,500 psi.** Mark flush at 1.0 psa on wellhead densiometer and flush to top perf. Record ISIP, 5, 10 and 15 minute pressures. Isolate pump trucks from wellhead, rig down isolation tool.
12. Flow test well for 24 hours recording hourly rates and pressures. If well flows, run ProTechnics TRACER AND PRODUCTION LOG over frac stage.
13. Open circulating port and kill well. Release treating packer and POOH laying down frac string.
14. Run production assembly based on well productivity.
15. Once production equipment has been run, release all rental equipment, RD & MO WO rig and clean location. Turn well over to pumper and turn to sales

## Design Treatment Schedule

Stage #	Stage Type	Elapsed Time min:sec	Fluid Type	Clean Volume (gal)	Prop Conc 1 (ppg)	Prop Conc 2 (ppg)	Stage Prop. (klbs)	Slurry Rate 1 (bpm)	Slurry Rate 2 (bpm)	Proppant Type
Wellbore Fluid			2% KCL	7770						
1	Main frac pad	1:42	XL	2500	0.00	0.00	0.0	30.00	40.00	
2	Main frac pad	8:11	XL	14000	0.50	0.50	7.0	40.00	65.00	100-Mesh
3	Main frac pad	9:06	XL	2500	0.00	0.00	0.0	65.00	65.00	
4	Main frac slurry	14:25	XL	14000	1.00	1.00	14.0	65.00	65.00	SinterLite Bauxite 20/40
5	Main frac slurry	20:42	XL	16000	2.00	2.00	32.0	65.00	65.00	SinterLite Bauxite 20/40
6	Main frac slurry	25:59	XL	13000	3.00	3.00	39.0	65.00	65.00	SinterLite Bauxite 20/40
7	Main frac slurry	30:11	XL	10000	4.00	4.00	40.0	65.00	65.00	SinterLite Bauxite 20/40
8	Main frac flush	32:42	LINEAR 20	6858	0.00	0.00	0.0	65.00	65.00	

Design clean volume (bbls)  
Design slurry volume (bbls)

1877.6  
1993.5

Design proppant pumped (klbs)

132.0

## Casing Configuration

Length (ft)	Segment Type	Casing ID (in)	Casing OD (in)	Weight (lb/ft)	Grade
6812	Cemented Casing	8.835	9.625	40.000	C-95
8111	Cemented Casing	6.765	7.625	33.700	C-95

## Surface Line and Tubing Configuration

Length (ft)	Segment Type	Tubing ID (in)	Tubing OD (in)	Weight (lb/ft)	Grade
10100	Tubing	3.958	4.500	12.750	C-95

Total frac string volume (bbls)

183.2

Pumping down     Tubing

### **Perforated Intervals**

	Interval #1	Interval #2	Interval #3	Interval #4	Interval #5	Interval #6
<b>Top of Perfs - TVD (ft)</b>	10316	10377	10464	10691	10764	10804
<b>Bot of Perfs - TVD (ft)</b>	10365	10408	10567	10722	10794	10889
<b>Top of Perfs - MD (ft)</b>	10316	10377	10464	10691	10764	10804
<b>Bot of Perfs - MD (ft)</b>	10365	10408	10567	10722	10794	10889
<b>Perforation Diameter (in)</b>	0.350	0.350	0.350	0.350	0.350	0.350
<b># of Perforations</b>	16	7	22	20	20	20

### **Path Summary**

Segment Type	Length (ft)	MD (ft)	TVD (ft)	Dev (deg)	Ann OD (in)	Ann ID (in)	Pipe ID (in)
Tubing	10100	10100	10100	0.0	0.000	0.000	3.958
Casing	664	10764	10764	0.0	0.000	0.000	6.765



T025 R04W5-02 43-013-30062



EL PASO PRODUCTION

Page 1 of 2

Operations Summary Report

Legal Well Name: BROTHERSON 1-2B4  
 Common Well Name: BROTHERSON 1-2B4  
 Event Name: RECOMPLETION  
 Contractor Name: BASIC  
 Rig Name: BASIC  
 Start: 8/4/2008  
 Rig Release: 9/4/2008  
 Spud Date: 5/22/1971  
 End: 9/11/2008  
 Group:  
 Rig Number: 1474

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/5/2008	10:30 - 17:00	6.50	C			HSM. MIRU. WORK RODS 4 HRS W/ HOTOILER PUMPING DOWN CSG. COULD NOT WORK PUMP OFF SEAT. SDFN
8/6/2008	07:00 - 18:30	11.50	C			HSM. WORK ROD STRING 2 HRS W/ 2 HOT OILERS PUMPING 380 BBLS TPW DOWN CSG. COULD NOT UNSEAT PUMP. BACK OFF ROD STRING. TOO H W/ 113 1" RODS, 128 7/8" RODS, & 105 3/4" RODS. ND WELL HEAD. PU ON TBG. TAC NOT SET. NU BOP. TOO H W/ 278 JTS 2-7/8" EUE TBG. SDFN
8/8/2008	07:00 -		C			HSM. TOO H W/ 269 JTS TBG & SCRAPER ASSEMBLY. RU PERFOLOG WIRELINE TRUCK. RIH W/ GUAGE RING. TAG UP @ 11073'. RIH & SET 5-1/2" CIBP @ 11069'. RIH W/ DUMP BAILER. SET DOWN ON 7-5/8" LINER TOP @ 2923'. LOST 2 SX CMT. PUMP 390 BBLS TPW DOWN CSG. RE FAB DUMP BAILER. DUMP BAIL 2 SX FRAC SAND ON PLUG, FOLLOWED BY 10 SX CMT IN 5 DUMP BAILER RUNS. RD PERFOLOG. SDFN
8/9/2008	07:00 - 17:30	10.50	C			HSM. RIH W/ 4-5/8" OD BIT, BIT SUB, 1 JT 2-7/8" EUE TBG, SEAT NIPPLE & 343 JTS 2-7/8" EUE TBG, HYDROTESTING TBG TO 8500 PSI. BLEW 3 JTS @ 8068' TO 8650'. RD TEST TRUCK. CONTINUE RIH TO 10997'. DID NOT TAG CMT. FILL HOLE W/ 306 BBLS 2% KCL WTR. PRESSURE TEST CSG TO 1500 PSI. LOST 1100 PSI IN 5 MINUTES. SDFN
8/10/2008	07:00 - 17:30	10.50	C			HSM RIH W/ 8 1" & 176 3/4" RODS. TOO H LAYING DOWN RODS FLUSHING AS NEEDED. TIH W/ 120 7/8" & 108 1" RODS. LD 108 1" & 9 7/8" RODS FLUSHING AS NEEDED. SDFN
8/11/2008	-					NO ACTIVITY TODAY. SHUT DOWN FOR SUNDAY
8/12/2008	07:00 - 18:00	11.00	C			HSM. CONTINUE LD 7" RODS. TIH & TAG CMT @ 11040'. WAIT ON CMT TO ARRIVE. SPOT 15 SX CLASS G CMT BALANCED PLUG, 11040' TO 10900'. TOO H W/ 13 JTS TBG. REVERSE OUT W/ 92 BBLS 2% KCL WTR. SHUT IN CSG. PUMP 2 BBLS 2% KCL. PRESSURED UP TO 1000 PSI. HELD FOR 5 MINUTES. TOO H W/ 12 JTS TBG. SDFN
8/14/2008	07:00 - 17:30	10.50	C			HSM. RU WIRELINE TRUCK & MAKE 4 PERF RUNS PERFORATING LOWER GREEN RIVER FORMATION, 10889' TO 10316'. SAW NO FLUID LEVEL OR PSI CHANGE. RD WIRELINE TRUCK. RIH W/ 7-5/8" HD PKR, X-OVER & 82 JTS 4-1/2" TBG. SDFN
8/15/2008	07:00 - 18:00	11.00	C			HSM. SICP 1300 PSI. SITP 1300 PSI. FLOW WELL TO FLOW BACK TANK. KILL TBG W/ 37 BBLS 2% KCL WTR. CONTINUE TIH W/ 4-1/2" TBG, (310 JTS TTL) AS CSG FLOWED 110 WTR & OIL TO FLOW BACK TANK. SET PKR @ 9677' IN 60K COMPRESSION. PRESSURE TEST PKR TO 1500 PSI FOR 15 MINUTES. OK. RD CSG TONGS. PRAPARE TO RD. SDFN
8/22/2008	07:00 - 16:00	9.00	C			RU BJ FRAC EQUIPMENT. BREAK DOWN PERFS @ 4291 PSI & PERFORM STEP TEST. TREAT PERFORATIONS W/ 5000 GAL 15% HCL ACID USING 160 BIO BALL SEALERS FOR DIVERSION & FLUSH 10 BBLS PAST BTM PERFORATION. ISPI 3200 PSI. 5 MIN 2561 PSI. 10 MIN 2240 PSI. 15 MIN 1821 PSI. WAIT 1 HR FOR BIO BALLS TO DISSOLVE. TREAT PERFORATIONS W/ 7000# 100 MESH SAND IN 1/2 PPG STAGE & 72860# 20/40 SINTERLITE BAUXITE SAND IN 1/2 PPG, 1 PPG, 2 PPG & 3PPG STAGES. (FRAC WAS SCHEDULED TO PUMP 4 PPG STAGE BUT WAS CUT SHORT AS PER DENVER ENGINEERS WHO WERE WATCHING FRAC OVER SATTELITE). FLUSH TO TOP PERF. ISIP 4020 PSI. 5 MIN 3575 PSI. 10 MIN 3460 PSI. 15 MIN 3374 PSI. RD FRAC EQUIPMENT. TURN WELL OVER TO PROD DEPT FOR FLOW BACK

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 DIV. OF OIL, GAS & MINING



Operations Summary Report

Legal Well Name: BROTHERSON 1-2B4  
 Common Well Name: BROTHERSON 1-2B4  
 Event Name: RECOMPLETION  
 Contractor Name: BASIC  
 Rig Name: BASIC  
 Spud Date: 5/22/1971  
 Start: 8/4/2008  
 End: 9/11/2008  
 Rig Release: 9/4/2008  
 Group:  
 Rig Number: 1474

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
8/23/2008	-					FLOW WELL TO FLOW BACK TANK & PRODUCTION FACILITY
8/24/2008	-					FLOW WELL TO PRODUCTION FACILITY
8/25/2008	-					FLOW WELL TO PRODUCTION FACILITY
8/26/2008	-					FLOW WELL TO PRODUCTION FACILITY
8/27/2008	-					FLOW WELL TO PRODUCTION FACILITY
8/28/2008	07:00 - 19:00	12.00	C			HSM. MOVE RIG TO LOCATION & RU. SPOT CAT WALK & PIPE RACKS. RELEASE PKR. PUMP 20 BBLs BRINE WTR DOWN TBG. BREAK OUT FRAC VALVE. LD 107 JTS 4-1/2" TBG. SDFN
8/29/2008	07:00 -					HSM. PUMP 90 BBLs 2% KCL WTR DOWN TBG. RU SLICKLINE UNIT & CHECK TD. TAGGED UP @ 10935'. RD SLICKLINE UNIT. LD 203 JTS 4-1/2" TBG. RD CSG TONGS. CHANGE EQUIPMENT OVER TO RIH W/ 2-7/8" PRODUCTION TBG. TIH W/ 5-3/4" NO/GO, SOLID PLUG, 2 JTS 2-7/8" TBG, 4-1/2" PBGA, 2-7/8"EUE PUP JT, SEAT NIPPLE, 7 JTS 2-7/8"EUE TBG, TAC & 32 JTS 2-7/8" EUE TBG. SDFN
8/30/2008	07:00 - 18:00	11.00				HSM. PUMP 20 BBLs 10 # BRINE DOWN TBG. INSTALL STRIPPER RUBBER. TALLY IN HOLE W/ 283 JTS 2-7/8"EUE TBG. KILL WELL W/ 140 BBLs 10 # BRINE WTR. ND BOP. ATTEMPT TO SET TAC. TAC. TAC WOULD NOT SET. NU BOP. SDFN
8/31/2008	-					NO ACTIVITY. SHUT DOWN FOR LABOR DAY WEEKEND
9/1/2008	-					NO ACTIVITY. SHUT DOWN FOR LABOR DAY WEEKEND
9/2/2008	-					NO ACTIVITY. LABOR DAY
9/3/2008	07:00 - 18:30	11.50	C			CSIP-550#. TSIP-300#. B.O.W. R/U PMP LINES TO CIRC WELL. PMP100 BLS BRINE DN CSNG. AND PMP 20 BLS BRINE DN TBNG. DID NOT KILL WELL. ROLL HOLE W/380 BLS BRINE DN CSNG UP TBNG. GOT WELL DEAD, LAYED TOP JNT 2 7/8" DN. ND BOP, SET TAC W/ 20,000# TENTION, LAND TBNG. NU WH. STEAMED OFF WORK AREA W/ HOT OILER. X-O EQ, TO RUN RODS. P/U NEW 1 3/4" INSERT RD PMP. RIH P/U 16-1" NEW RDS W/GDS. THEN 8-1"RDS THAT WERE IN HOLE PRIOR, FOR A TOTAL OF 24-1" GUIDED RDS. X-O, 79-3/4" RDS, CHANGING OUT BOXES WERE NEEDED. END UP PMP @2527'. P/U POLISH RD. SECURE WELL, R/U LINE OFF CSNG TO FLOW LINE AND LET WELL BLEED TO TRTRER OVERNIGHT. PMPED A TOTAL OF 650 BLS BRINE FOR THE DAY.
9/4/2008	07:00 - 14:00	7.00	C			TSIP-50#. BLEED OFF TBNG, L/D POLISH ROD, CONT P/U ROD STRING, SEAT & SPACE OUT PMP, FILL & PRESS TEST TBNG TO 1000#. GOOD TEST. CLAMP OFF POLISH ROD & LEAVE ON ROD STAND. CLEAN UP LOCATION & EQUIPMENT. RDMO. TURN OVER TO PRODUCTION. ROD TOTAL RAN IN HOLE. PONY RODS-1-2',1-4',1-6', 104-1"RDS, 116- 7/8" RDS,152- 3/4" RDS, 24-1" RDS, AND 2 1/2"X1 3/4"X 28' RHBC INSERT PMP.
9/11/2008	07:00 - 18:00	11.00				SAFETY MEETING. RIGGED DOWN AND MOVED TO 1-2B4. LAYED DOWN POLISH ROD AND SUBS. ATTEMPTED TO FLUSH RODS PRESSURE UP TO 500 PSI PUMPED 50 BBLs. ATTEMPTED TO SEAT PUMP, WOULD NOT SEAT. POOH WITH 104-1" RODS SLK, 116-7/8" RODS (50 W/G, 66 SLK), 152-3/4" RODS (86 W/G, 56 SLK, 10 W/G), 24-1" RODS W/G, CDI 2 1/2" X 1 3/4" X 28" PUMP. FLUSHED TBG 65 BBLs. CHANGED TO TBG AND ND WH. CSG FLOWING GAS, PUMPED WTR. PICKED UP ON TBG , ANCHOR STILL SET. CHANGED TO RODS AND NU WH. SDFN. USED 170 BBLs.

**Division of Oil, Gas and Mining**  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
**CDW**

**X - Change of Operator (Well Sold)**

**Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**6/1/2012**

<b>FROM: (Old Operator):</b> N3065- El Paso E&P Company, L.P. 1001 Louisiana Street Houston, TX. 77002  Phone: 1 (713) 997-5038	<b>TO: ( New Operator):</b> N3850- EP Energy E&P Company, L.P. 1001 Louisiana Street Houston, TX. 77002  Phone: 1 (713) 997-5038
--	---

CA No.		Unit:			N/A			
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/27/2012
- Is the new operator registered in the State of Utah:          Business Number: 2114377-0181
- (R649-9-2)Waste Management Plan has been received on:          Yes
- Inspections of LA PA state/fee well sites complete on:          N/A
- Reports current for Production/Disposition & Sundries on:          6/25/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on:          BLM          N/A          BIA          Not Received
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on:          N/A
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on:          N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:          **Second Oper Chg**

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on:          6/29/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on:          6/29/2012
- Bond information entered in RBDMS on:          6/29/2012
- Fee/State wells attached to bond in RBDMS on:          6/29/2012
- Injection Projects to new operator in RBDMS on:          6/29/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on:          N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number:          103601420
- Indian well(s) covered by Bond Number:          103601473
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number          400JU0705
- The **FORMER** operator has requested a release of liability from their bond on:          N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on:          6/29/2012

**COMMENTS:**

Disposal and Injections wells will be moved when UIC 5 is received.

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**Multiple Leases**

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**See Attached**

2. NAME OF OPERATOR:  
**El Paso E&P Company, L.P. Attn: Maria Gomez**

9. API NUMBER:

3. ADDRESS OF OPERATOR:  
1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER:  
**(713) 997-5038**

10. FIELD AND POOL, OR WILDCAT:  
**See Attached**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **See Attached**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

COUNTY:  
STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

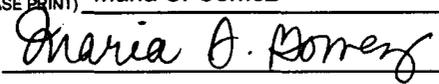
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <b>Change of</b>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<b>Name/Operator</b>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

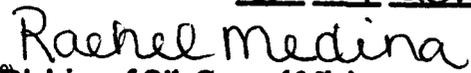
  
Frank W. Falleri  
Vice President  
El Paso E&P Company, L.P.

  
Frank W. Falleri  
Sr. Vice President  
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez  
SIGNATURE 

TITLE Principal Regulatory Analyst  
DATE 6/22/2012

(This space for State use only)

APPROVED 6/29/2012  
  
Rachel Medina  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
Rachel Medina

(See Instructions on Reverse Side)

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DIV. OF OIL, GAS & MINING

Well Name	Sec	TWP	RNG	API Number	Entity	Lease Type	Well Type	Well Status	Conf
DWR 3-17C6	17	030S	060W	4301350070		14204621118	OW	APD	C
LAKEWOOD ESTATES 3-33C6	33	030S	060W	4301350127		1420H621328	OW	APD	C
YOUNG 3-15A3	15	010S	030W	4301350122		FEE	OW	APD	C
WHITING 4-1A2	01	010S	020W	4301350424		Fee	OW	APD	C
EL PASO 4-34A4	34	010S	040W	4301350720		Fee	OW	APD	C
YOUNG 2-2B1	02	020S	010W	4304751180		FEE	OW	APD	C
LAKE FORK RANCH 3-10B4	10	020S	040W	4301350712	18221	Fee	OW	DRL	C
LAKE FORK RANCH 4-26B4	26	020S	040W	4301350714	18432	Fee	OW	DRL	C
LAKE FORK RANCH 4-24B4	24	020S	040W	4301350717	18315	Fee	OW	DRL	C
Cook 4-14B3	14	020S	030W	4301351162	18449	Fee	OW	DRL	C
Peterson 4-22C6	22	030S	060W	4301351163	18518	Fee	OW	DRL	C
Lake Fork Ranch 4-14B4	14	020S	040W	4301351240	99999	Fee	OW	DRL	C
Melesco 4-20C6	20	030S	060W	4301351241	99999	Fee	OW	DRL	C
Peck 3-13B5	13	020S	050W	4301351364	99999	Fee	OW	DRL	C
Jensen 2-9C4	09	030S	040W	4301351375	99999	Fee	OW	DRL	C
El Paso 3-5C4	05	030S	040W	4301351376	18563	Fee	OW	DRL	C
ULT 6-31	31	030S	020E	4304740033		FEE	OW	LA	
OBERHANSLY 2-2A1	02	010S	010W	4304740164		FEE	OW	LA	
DWR 3-15C6	15	030S	060W	4301351433		14-20-H62-4724	OW	NEW	C
Lake Fork Ranch 5-23B4	23	020S	040W	4301350739		Fee	OW	NEW	
Duchesne Land 4-10C5	10	030S	050W	4301351262		Fee	OW	NEW	C
Cabinland 4-9B3	09	020S	030W	4301351374		Fee	OW	NEW	C
Layton 4-2B3	02	020S	030W	4301351389		Fee	OW	NEW	C
Golinski 4-24B5	24	020S	050W	4301351404		Fee	OW	NEW	C
Alba 1-21C4	21	030S	040W	4301351460		Fee	OW	NEW	C
Allison 4-19C5	19	030S	050W	4301351466		Fee	OW	NEW	C
Seeley 4-3B3	03	020S	030W	4301351486		Fee	OW	NEW	C
Allen 4-25B5	25	020S	050W	4301351487		Fee	OW	NEW	C
Hewett 2-6C4	06	030S	040W	4301351489		Fee	OW	NEW	C
Young 2-7C4	07	030S	040W	4301351500		Fee	OW	NEW	C
Brighton 3-31A1E	31	010S	010E	4304752471		Fee	OW	NEW	C
Hamaker 3-25A1	25	010S	010W	4304752491		Fee	OW	NEW	C
Bolton 3-29A1E	29	010S	010E	4304752871		Fee	OW	NEW	C
HORROCKS 5-20A1	20	010S	010W	4301334280	17378	FEE	OW	OPS	C
DWR 3-19C6	19	030S	060W	4301334263	17440	14-20-462-1120	OW	P	
DWR 3-22C6	22	030S	060W	4301334106	17298	14-20-462-1131	OW	P	
DWR 3-28C6	28	030S	060W	4301334264	17360	14-20-462-1323	OW	P	
UTE 1-7A2	07	010S	020W	4301330025	5850	14-20-462-811	OW	P	
UTE 2-17C6	17	030S	060W	4301331033	10115	14-20-H62-1118	OW	P	
WLR TRIBAL 2-19C6	19	030S	060W	4301331035	10250	14-20-H62-1120	OW	P	
CEDAR RIM 10-A-15C6	15	030S	060W	4301330615	6420	14-20-H62-1128	OW	P	
CEDAR RIM 12A	28	030S	060W	4301331173	10672	14-20-H62-1323	OW	P	
UTE-FEE 2-33C6	33	030S	060W	4301331123	10365	14-20-H62-1328	OW	P	
TAYLOR 3-34C6	34	030S	060W	4301350200	17572	1420H621329	OW	P	
BAKER UTE 2-34C6	34	030S	060W	4301332634	14590	14-20-H62-1329	OW	P	
UTE 3-35Z2 K	35	010N	020W	4301331133	10483	14-20-H62-1614	OW	P	
UTE 1-32Z2	32	010N	020W	4301330379	1915	14-20-H62-1702	OW	P	
UTE TRIBAL 1-33Z2	33	010N	020W	4301330334	1851	14-20-H62-1703	OW	P	
UTE 2-33Z2	33	010N	020W	4301331111	10451	14-20-H62-1703	OW	P	
UTE TRIBAL 2-34Z2	34	010N	020W	4301331167	10668	14-20-H62-1704	OW	P	
LAKE FORK RANCH 3-13B4	13	020S	040W	4301334262	17439	14-20-H62-1743	OW	P	
UTE 1-28B4	28	020S	040W	4301330242	1796	14-20-H62-1745	OW	P	
UTE 1-34A4	34	010S	040W	4301330076	1585	14-20-H62-1774	OW	P	
UTE 1-36A4	36	010S	040W	4301330069	1580	14-20-H62-1793	OW	P	
UTE 1-1B4	01	020S	040W	4301330129	1700	14-20-H62-1798	OW	P	
UTE 1-31A2	31	010S	020W	4301330401	1925	14-20-H62-1801	OW	P	

El Paso E2 Company, L.P. (N3065) to EP Energy E2 Company, L.P. (N3850) effective 6/1/2012

UTE 1-25A3	25	010S	030W	4301330370	1920	14-20-H62-1802	OW	P	
UTE 2-25A3	25	010S	030W	4301331343	11361	14-20-H62-1802	OW	P	
UTE 1-26A3	26	010S	030W	4301330348	1890	14-20-H62-1803	OW	P	
UTE 2-26A3	26	010S	030W	4301331340	11349	14-20-H62-1803	OW	P	
UTE TRIBAL 4-35A3	35	010S	030W	4301350274	18009	1420H621804	OW	P	C
UTE 2-35A3	35	010S	030W	4301331292	11222	14-20-H62-1804	OW	P	
UTE 3-35A3	35	010S	030W	4301331365	11454	14-20-H62-1804	OW	P	
UTE 1-6B2	06	020S	020W	4301330349	1895	14-20-H62-1807	OW	P	
UTE 2-6B2	06	020S	020W	4301331140	11190	14-20-H62-1807	OW	P	
UTE TRIBAL 3-6B2	06	020S	020W	4301350273	18008	14-20-H62-1807	OW	P	C
POWELL 4-19A1	19	010S	010W	4301330071	8302	14-20-H62-1847	OW	P	
COLTHARP 1-27Z1	27	010N	010W	4301330151	4700	14-20-H62-1933	OW	P	
UTE 1-8A1E	08	010S	010E	4304730173	1846	14-20-H62-2147	OW	P	
UTE TRIBE 1-31	31	010N	020W	4301330278	4755	14-20-H62-2421	OW	P	
UTE 1-28B6X	28	020S	060W	4301330510	11165	14-20-H62-2492	OW	P	
RINKER 2-21B5	21	020S	050W	4301334166	17299	14-20-H62-2508	OW	P	
MURDOCK 2-34B5	34	020S	050W	4301331132	10456	14-20-H62-2511	OW	P	
UTE 1-35B6	35	020S	060W	4301330507	2335	14-20-H62-2531	OW	P	
UTE TRIBAL 1-17A1E	17	010S	010E	4304730829	860	14-20-H62-2658	OW	P	
UTE 2-17A1E	17	010S	010E	4304737831	16709	14-20-H62-2658	OW	P	
UTE TRIBAL 1-27A1E	27	010S	010E	4304730421	800	14-20-H62-2662	OW	P	
UTE TRIBAL 1-35A1E	35	010S	010E	4304730286	795	14-20-H62-2665	OW	P	
UTE TRIBAL 1-15A1E	15	010S	010E	4304730820	850	14-20-H62-2717	OW	P	
UTE TRIBAL P-3B1E	03	020S	010E	4304730190	4536	14-20-H62-2873	OW	P	
UTE TRIBAL 1-22A1E	22	010S	010E	4304730429	810	14-20-H62-3103	OW	P	
B H UTE 1-35C6	35	030S	060W	4301330419	10705	14-20-H62-3436	OW	P	
BH UTE 2-35C6	35	030S	060W	4301332790	15802	14-20-H62-3436	OW	P	
MCFARLANE 1-4D6	04	040S	060W	4301331074	10325	14-20-H62-3452	OW	P	
UTE TRIBAL 1-11D6	11	040S	060W	4301330482	6415	14-20-H62-3454	OW	P	
CARSON 2-36A1	36	010S	010W	4304731407	737	14-20-H62-3806	OW	P	
UTE 2-14C6	14	030S	060W	4301330775	9133	14-20-H62-3809	OW	P	
DWR 3-14C6	14	030S	060W	4301334003	17092	14-20-H62-3809	OW	P	
THE PERFECT "10" 1-10A1	10	010S	010W	4301330935	9461	14-20-H62-3855	OW	P	
BADGER-SAM H U MONGUS 1-15A1	15	010S	010W	4301330949	9462	14-20-H62-3860	OW	P	
MAXIMILLIAN-UTE 14-1	14	010S	030W	4301330726	8437	14-20-H62-3868	OW	P	
FRED BASSETT 1-22A1	22	010S	010W	4301330781	9460	14-20-H62-3880	OW	P	
UTE TRIBAL 1-30Z1	30	010N	010W	4301330813	9405	14-20-H62-3910	OW	P	
UTE LB 1-13A3	13	010S	030W	4301330894	9402	14-20-H62-3980	OW	P	
UTE 2-22B6	22	020S	060W	4301331444	11641	14-20-H62-4614	OW	P	
UINTA OURAY 1-1A3	01	010S	030W	4301330132	5540	14-20-H62-4664	OW	P	
UTE 1-6D6	06	040S	060W	4301331696	12058	14-20-H62-4752	OW	P	
UTE 2-11D6	11	040S	060W	4301350179	17667	1420H624801	OW	P	
UTE 1-15D6	15	040S	060W	4301330429	10958	14-20-H62-4824	OW	P	
UTE 2-15D6	15	040S	060W	4301334026	17193	14-20-H62-4824	OW	P	
HILL 3-24C6	24	030S	060W	4301350293	18020	1420H624866	OW	P	C
BARCLAY UTE 2-24C6R	24	030S	060W	4301333730	16385	14-20-H62-4866	OW	P	
BROTHERSON 1-2B4	02	020S	040W	4301330062	1570	FEE	OW	P	
BOREN 1-24A2	24	010S	020W	4301330084	5740	FEE	OW	P	
FARNSWORTH 1-13B5	13	020S	050W	4301330092	1610	FEE	OW	P	
BROADHEAD 1-21B6	21	020S	060W	4301330100	1595	FEE	OW	P	
ASAY E J 1-20A1	20	010S	010W	4301330102	8304	FEE	OW	P	
HANSON TRUST 1-5B3	05	020S	030W	4301330109	1635	FEE	OW	P	
ELLSWORTH 1-8B4	08	020S	040W	4301330112	1655	FEE	OW	P	
ELLSWORTH 1-9B4	09	020S	040W	4301330118	1660	FEE	OW	P	
ELLSWORTH 1-17B4	17	020S	040W	4301330126	1695	FEE	OW	P	
CHANDLER 1-5B4	05	020S	040W	4301330140	1685	FEE	OW	P	
HANSON 1-32A3	32	010S	030W	4301330141	1640	FEE	OW	P	
JESSEN 1-17A4	17	010S	040W	4301330173	4725	FEE	OW	P	

El Paso E3 Company, L.P. (N3065) to EP Energy E3 Company, L.P. (N3850) effective 6/1/2012

JENKINS 1-1B3	01	020S	030W	4301330175	1790	FEE	OW	P
GOODRICH 1-2B3	02	020S	030W	4301330182	1765	FEE	OW	P
ELLSWORTH 1-19B4	19	020S	040W	4301330183	1760	FEE	OW	P
DOYLE 1-10B3	10	020S	030W	4301330187	1810	FEE	OW	P
JOS. SMITH 1-17C5	17	030S	050W	4301330188	5510	FEE	OW	P
RUDY 1-11B3	11	020S	030W	4301330204	1820	FEE	OW	P
CROOK 1-6B4	06	020S	040W	4301330213	1825	FEE	OW	P
HUNT 1-21B4	21	020S	040W	4301330214	1840	FEE	OW	P
LAWRENCE 1-30B4	30	020S	040W	4301330220	1845	FEE	OW	P
YOUNG 1-29B4	29	020S	040W	4301330246	1791	FEE	OW	P
GRIFFITHS 1-33B4	33	020S	040W	4301330288	4760	FEE	OW	P
POTTER 1-2B5	02	020S	050W	4301330293	1826	FEE	OW	P
BROTHERSON 1-26B4	26	020S	040W	4301330336	1856	FEE	OW	P
SADIE BLANK 1-33Z1	33	010N	010W	4301330355	765	FEE	OW	P
POTTER 1-24B5	24	020S	050W	4301330356	1730	FEE	OW	P
WHITEHEAD 1-22A3	22	010S	030W	4301330357	1885	FEE	OW	P
CHASEL MILLER 2-1A2	01	010S	020W	4301330360	5830	FEE	OW	P
ELDER 1-13B2	13	020S	020W	4301330366	1905	FEE	OW	P
BROTHERSON 2-10B4	10	020S	040W	4301330443	1615	FEE	OW	P
FARNSWORTH 2-7B4	07	020S	040W	4301330470	1935	FEE	OW	P
TEW 1-15A3	15	010S	030W	4301330529	1945	FEE	OW	P
UTE FEE 2-20C5	20	030S	050W	4301330550	4527	FEE	OW	P
HOUSTON 1-34Z1	34	010N	010W	4301330566	885	FEE	OW	P
GALLOWAY 1-18B1	18	020S	010W	4301330575	2365	FEE	OW	P
SMITH 1-31B5	31	020S	050W	4301330577	1955	FEE	OW	P
LEBEAU 1-34A1	34	010S	010W	4301330590	1440	FEE	OW	P
LINMAR 1-19B2	19	020S	020W	4301330600	9350	FEE	OW	P
WISSE 1-28Z1	28	010N	010W	4301330609	905	FEE	OW	P
POWELL 1-21B1	21	020S	010W	4301330621	910	FEE	OW	P
HANSEN 1-24B3	24	020S	030W	4301330629	2390	FEE	OW	P
OMAN 2-4B4	04	020S	040W	4301330645	9125	FEE	OW	P
DYE 1-25Z2	25	010N	020W	4301330659	9111	FEE	OW	P
H MARTIN 1-21Z1	21	010N	010W	4301330707	925	FEE	OW	P
JENSEN 1-29Z1	29	010N	010W	4301330725	9110	FEE	OW	P
CHASEL 2-17A1 V	17	010S	010W	4301330732	9112	FEE	OW	P
BIRCHELL 1-27A1	27	010S	010W	4301330758	940	FEE	OW	P
CHRISTENSEN 2-8B3	08	020S	030W	4301330780	9355	FEE	OW	P
LAMICQ 2-5B2	05	020S	020W	4301330784	2302	FEE	OW	P
BROTHERSON 2-14B4	14	020S	040W	4301330815	10450	FEE	OW	P
MURRAY 3-2A2	02	010S	020W	4301330816	9620	FEE	OW	P
HORROCKS 2-20A1 V	20	010S	010W	4301330833	8301	FEE	OW	P
BROTHERSON 2-2B4	02	020S	040W	4301330855	8420	FEE	OW	P
ELLSWORTH 2-8B4	08	020S	040W	4301330898	2418	FEE	OW	P
OMAN 2-32A4	32	010S	040W	4301330904	10045	FEE	OW	P
BELCHER 2-33B4	33	020S	040W	4301330907	9865	FEE	OW	P
BROTHERSON 2-35B5	35	020S	050W	4301330908	9404	FEE	OW	P
HORROCKS 2-4A1 T	04	010S	010W	4301330954	9855	FEE	OW	P
JENSEN 2-29A5	29	010S	050W	4301330974	10040	FEE	OW	P
UTE 2-34A4	34	010S	040W	4301330978	10070	FEE	OW	P
CHANDLER 2-5B4	05	020S	040W	4301331000	10075	FEE	OW	P
BABCOCK 2-12B4	12	020S	040W	4301331005	10215	FEE	OW	P
BADGER MR BOOM BOOM 2-29A1	29	010S	010W	4301331013	9463	FEE	OW	P
BLEAZARD 2-18B4	18	020S	040W	4301331025	1566	FEE	OW	P
BROADHEAD 2-32B5	32	020S	050W	4301331036	10216	FEE	OW	P
ELLSWORTH 2-16B4	16	020S	040W	4301331046	10217	FEE	OW	P
RUST 3-4B3	04	020S	030W	4301331070	1576	FEE	OW	P
HANSON TRUST 2-32A3	32	010S	030W	4301331072	1641	FEE	OW	P
BROTHERSON 2-11B4	11	020S	040W	4301331078	1541	FEE	OW	P

El Paso E4 Company, L.P. (N3065) to EP Energy E4 Company, L.P. (N3850) effective 6/1/2012

HANSON TRUST 2-5B3	05	020S	030W	4301331079	1636	FEE	OW	P
BROTHERSON 2-15B4	15	020S	040W	4301331103	1771	FEE	OW	P
MONSEN 2-27A3	27	010S	030W	4301331104	1746	FEE	OW	P
ELLSWORTH 2-19B4	19	020S	040W	4301331105	1761	FEE	OW	P
HUNT 2-21B4	21	020S	040W	4301331114	1839	FEE	OW	P
JENKINS 2-1B3	01	020S	030W	4301331117	1792	FEE	OW	P
POTTER 2-24B5	24	020S	050W	4301331118	1731	FEE	OW	P
POWELL 2-13A2 K	13	010S	020W	4301331120	8306	FEE	OW	P
JENKINS 2-12B3	12	020S	030W	4301331121	10459	FEE	OW	P
MURDOCK 2-26B5	26	020S	050W	4301331124	1531	FEE	OW	P
BIRCH 3-27B5	27	020S	050W	4301331126	1783	FEE	OW	P
ROBB 2-29B5	29	020S	050W	4301331130	10454	FEE	OW	P
LAKE FORK 2-13B4	13	020S	040W	4301331134	10452	FEE	OW	P
DUNCAN 3-1A2 K	01	010S	020W	4301331135	10484	FEE	OW	P
HANSON 2-9B3	09	020S	030W	4301331136	10455	FEE	OW	P
ELLSWORTH 2-9B4	09	020S	040W	4301331138	10460	FEE	OW	P
UTE 2-31A2	31	010S	020W	4301331139	10458	FEE	OW	P
POWELL 2-19A1 K	19	010S	010W	4301331149	8303	FEE	OW	P
CEDAR RIM 8-A	22	030S	060W	4301331171	10666	FEE	OW	P
POTTER 2-6B4	06	020S	040W	4301331249	11038	FEE	OW	P
MILES 2-1B5	01	020S	050W	4301331257	11062	FEE	OW	P
MILES 2-3B3	03	020S	030W	4301331261	11102	FEE	OW	P
MONSEN 2-22A3	22	010S	030W	4301331265	11098	FEE	OW	P
WRIGHT 2-13B5	13	020S	050W	4301331267	11115	FEE	OW	P
TODD 2-21A3	21	010S	030W	4301331296	11268	FEE	OW	P
WEIKART 2-29B4	29	020S	040W	4301331298	11332	FEE	OW	P
YOUNG 2-15A3	15	010S	030W	4301331301	11344	FEE	OW	P
CHRISTENSEN 2-29A4	29	010S	040W	4301331303	11235	FEE	OW	P
BLEAZARD 2-28B4	28	020S	040W	4301331304	11433	FEE	OW	P
REARY 2-17A3	17	010S	030W	4301331318	11251	FEE	OW	P
LAZY K 2-11B3	11	020S	030W	4301331352	11362	FEE	OW	P
LAZY K 2-14B3	14	020S	030W	4301331354	11452	FEE	OW	P
MATTHEWS 2-13B2	13	020S	020W	4301331357	11374	FEE	OW	P
LAKE FORK 3-15B4	15	020S	040W	4301331358	11378	FEE	OW	P
STEVENSON 3-29A3	29	010S	030W	4301331376	11442	FEE	OW	P
MEEKS 3-8B3	08	020S	030W	4301331377	11489	FEE	OW	P
ELLSWORTH 3-20B4	20	020S	040W	4301331389	11488	FEE	OW	P
DUNCAN 5-13A2	13	010S	020W	4301331516	11776	FEE	OW	P
OWL 3-17C5	17	030S	050W	4301332112	12476	FEE	OW	P
BROTHERSON 2-24 B4	24	020S	040W	4301332695	14652	FEE	OW	P
BODRERO 2-15B3	15	020S	030W	4301332755	14750	FEE	OW	P
BROTHERSON 2-25B4	25	020S	040W	4301332791	15044	FEE	OW	P
CABINLAND 2-16B3	16	020S	030W	4301332914	15236	FEE	OW	P
KATHERINE 3-29B4	29	020S	040W	4301332923	15331	FEE	OW	P
SHRINERS 2-10C5	10	030S	050W	4301333008	15908	FEE	OW	P
BROTHERSON 2-26B4	26	020S	040W	4301333139	17047	FEE	OW	P
MORTENSEN 4-32A2	32	010S	020W	4301333211	15720	FEE	OW	P
FERRARINI 3-27B4	27	020S	040W	4301333265	15883	FEE	OW	P
RHOADES 2-25B5	25	020S	050W	4301333467	16046	FEE	OW	P
CASE 2-31B4	31	020S	040W	4301333548	16225	FEE	OW	P
ANDERSON-ROWLEY 2-24B3	24	020S	030W	4301333616	16284	FEE	OW	P
SPROUSE BOWDEN 2-18B1	18	020S	010W	4301333808	16677	FEE	OW	P
BROTHERSON 3-11B4	11	020S	040W	4301333904	16891	FEE	OW	P
KOFFORD 2-36B5	36	020S	050W	4301333988	17048	FEE	OW	P
ALLEN 3-7B4	07	020S	040W	4301334027	17166	FEE	OW	P
BOURNAKIS 3-18B4	18	020S	040W	4301334091	17264	FEE	OW	P
MILES 3-12B5	12	020S	050W	4301334110	17316	FEE	OW	P
OWL and HAWK 2-31B5	31	020S	050W	4301334123	17388	FEE	OW	P

El Paso E5 Company, L.P. (N3065) to EP Energy E5 Company, L.P. (N3850) effective 6/1/2012

OWL and HAWK 4-17C5	17	030S	050W	4301334193	17387	FEE	OW	P	
DWR 3-32B5	32	020S	050W	4301334207	17371	FEE	OW	P	
LAKE FORK RANCH 3-22B4	22	020S	040W	4301334261	17409	FEE	OW	P	
HANSON 3-9B3	09	020S	030W	4301350065	17570	FEE	OW	P	
DYE 2-28A1	28	010S	010W	4301350066	17531	FEE	OW	P	
MEEKS 3-32A4	32	010S	040W	4301350069	17605	FEE	OW	P	
HANSON 4-8B3	08	020S	030W	4301350088	17571	FEE	OW	P	C
LAKE FORK RANCH 3-14B4	14	020S	040W	4301350097	17484	FEE	OW	P	
ALLEN 3-9B4	09	020S	040W	4301350123	17656	FEE	OW	P	
HORROCKS 4-20A1	20	010S	010W	4301350155	17916	FEE	OW	P	
HURLEY 2-33A1	33	010S	010W	4301350166	17573	FEE	OW	P	
HUTCHINS/CHIODO 3-20C5	20	030S	050W	4301350190	17541	FEE	OW	P	
ALLEN 3-8B4	08	020S	040W	4301350192	17622	FEE	OW	P	
OWL and HAWK 3-10C5	10	030S	050W	4301350193	17532	FEE	OW	P	
OWL and HAWK 3-19C5	19	030S	050W	4301350201	17508	FEE	OW	P	
EL PASO 4-29B5	29	020S	050W	4301350208	17934	FEE	OW	P	C
DONIHUE 3-20C6	20	030S	060W	4301350270	17762	FEE	OW	P	
HANSON 3-5B3	05	020S	030W	4301350275	17725	FEE	OW	P	C
SPRATT 3-26B5	26	020S	050W	4301350302	17668	FEE	OW	P	
REBEL 3-35B5	35	020S	050W	4301350388	17911	FEE	OW	P	C
FREEMAN 4-16B4	16	020S	040W	4301350438	17935	Fee	OW	P	C
WILSON 3-36B5	36	020S	050W	4301350439	17936	Fee	OW	P	C
EL PASO 3-21B4	21	020S	040W	4301350474	18123	Fee	OW	P	C
IORG 4-12B3	12	020S	030W	4301350487	17981	Fee	OW	P	C
CONOVER 3-3B3	03	020S	030W	4301350526	18122	Fee	OW	P	C
ROWLEY 3-16B4	16	020S	040W	4301350569	18151	Fee	OW	P	C
POTTS 3-14B3	14	020S	030W	4301350570	18366	Fee	OW	P	C
POTTER 4-27B5	27	020S	050W	4301350571	99999	Fee	OW	P	C
EL PASO 4-21B4	21	020S	040W	4301350572	18152	Fee	OW	P	C
LAKE FORK RANCH 3-26B4	26	020S	040W	4301350707	18270	Fee	OW	P	C
LAKE FORK RANCH 3-25B4	25	020S	040W	4301350711	18220	Fee	OW	P	C
LAKE FORK RANCH 4-23B4	23	020S	040W	4301350713	18271	Fee	OW	P	C
LAKE FORK RANCH 4-15B4	15	020S	040W	4301350715	18314	Fee	OW	P	C
LAKE FORK RANCH 3-24B4	24	020S	040W	4301350716	18269	Fee	OW	P	C
GOLINSKI 1-8C4	08	030S	040W	4301350986	18301	Fee	OW	P	C
J ROBERTSON 1-1B1	01	020S	010W	4304730174	5370	FEE	OW	P	
TIMOTHY 1-8B1E	08	020S	010E	4304730215	1910	FEE	OW	P	
MAGDALENE PAPADOPULOS 1-34A1E	34	010S	010E	4304730241	785	FEE	OW	P	
NELSON 1-31A1E	31	010S	010E	4304730671	830	FEE	OW	P	
ROSEMARY LLOYD 1-24A1E	24	010S	010E	4304730707	840	FEE	OW	P	
H D LANDY 1-30A1E	30	010S	010E	4304730790	845	FEE	OW	P	
WALKER 1-14A1E	14	010S	010E	4304730805	855	FEE	OW	P	
BOLTON 2-29A1E	29	010S	010E	4304731112	900	FEE	OW	P	
PRESCOTT 1-35Z1	35	010N	010W	4304731173	1425	FEE	OW	P	
BISEL GURR 11-1	11	010S	010W	4304731213	8438	FEE	OW	P	
UTE TRIBAL 2-22A1E	22	010S	010E	4304731265	915	FEE	OW	P	
L. BOLTON 1-12A1	12	010S	010W	4304731295	920	FEE	OW	P	
FOWLES 1-26A1	26	010S	010W	4304731296	930	FEE	OW	P	
BRADLEY 23-1	23	010S	010W	4304731297	8435	FEE	OW	P	
BASTIAN 1-2A1	02	010S	010W	4304731373	736	FEE	OW	P	
D R LONG 2-19A1E	19	010S	010E	4304731470	9505	FEE	OW	P	
D MOON 1-23Z1	23	010N	010W	4304731479	10310	FEE	OW	P	
O MOON 2-26Z1	26	010N	010W	4304731480	10135	FEE	OW	P	
LILA D 2-25A1	25	010S	010W	4304731797	10790	FEE	OW	P	
LANDY 2-30A1E	30	010S	010E	4304731895	11127	FEE	OW	P	
WINN P2-3B1E	03	020S	010E	4304732321	11428	FEE	OW	P	
BISEL-GURR 2-11A1	11	010S	010W	4304735410	14428	FEE	OW	P	
FLYING J FEE 2-12A1	12	010S	010W	4304739467	16686	FEE	OW	P	

El Paso E6 Company, L.P. (N3065) to EP Energy E6 Company, L.P. (N3850) effective 6/1/2012

HARVEST FELLOWSHIP CHURCH 2-14B1	14	020S	010W	4304739591	16546	FEE	OW	P
OBERHANSLY 3-11A1	11	010S	010W	4304739679	17937	FEE	OW	P
DUNCAN 2-34A1	34	010S	010W	4304739944	17043	FEE	OW	P
BISEL GURR 4-11A1	11	010S	010W	4304739961	16791	FEE	OW	P
KILLIAN 3-12A1	12	010S	010W	4304740226	17761	ML 39760	OW	P
WAINOCO ST 1-14B1	14	020S	010W	4304730818	1420	ML-24306-A	OW	P
UTAH ST UTE 1-35A1	35	010S	010W	4304730182	5520	ML-25432	OW	P
STATE 1-19A4	19	010S	040W	4301330322	9118	ML-27912	OW	P
FEDERAL 2-28E19E	28	050S	190E	4304732849	12117	UTU-0143512	OW	P
FEDERAL 1-28E19E	28	050S	190E	4304730175	5680	UTU143512	OW	P
BLANCHARD 1-3A2	03	010S	020W	4301320316	5877	FEE	OW	PA
W H BLANCHARD 2-3A2	03	010S	020W	4301330008	5775	FEE	OW	PA
YACK U 1-7A1	07	010S	010W	4301330018	5795	FEE	OW	PA
JAMES POWELL 3	13	010S	020W	4301330024	8305	FEE	WD	PA
BASTIAN 1 (3-7D)	07	010S	010W	4301330026	5800	FEE	OW	PA
LAMICQ-URRUTY 1-8A2	08	010S	020W	4301330036	5975	FEE	OW	PA
BLEAZARD 1-18B4	18	020S	040W	4301330059	11262	FEE	OW	PA
OLSEN 1-27A4	27	010S	040W	4301330064	1565	FEE	OW	PA
EVANS 1-31A4	31	010S	040W	4301330067	5330	FEE	OW	PA
HAMBLIN 1-26A2	26	010S	020W	4301330083	2305	FEE	OW	PA
HARTMAN 1-31A3	31	010S	030W	4301330093	10700	FEE	OW	PA
FARNSWORTH 1-7B4	07	020S	040W	4301330097	5725	FEE	OW	PA
POWELL 1-33A3	33	010S	030W	4301330105	4526	FEE	OW	PA
LOTRIDGE GATES 1-3B3	03	020S	030W	4301330117	1625	FEE	OW	PA
REMINGTON 1-34A3	34	010S	030W	4301330139	1670	FEE	OW	PA
ANDERSON 1-28A2	28	010S	020W	4301330150	5895	FEE	OW	PA
RHOADES MOON 1-35B5	35	020S	050W	4301330155	5270	FEE	OW	PA
JOHN 1-3B2	03	020S	020W	4301330160	5765	FEE	OW	PA
SMITH 1-6C5	06	030S	050W	4301330163	5385	FEE	OW	PA
HORROCKS FEE 1-3A1	03	010S	010W	4301330171	5505	FEE	OW	PA
WARREN 1-32A4	32	010S	040W	4301330174	9139	FEE	OW	PA
JENSEN FENZEL 1-20C5	20	030S	050W	4301330177	4730	FEE	OW	PA
MYRIN RANCH 1-13B4	13	020S	040W	4301330180	4524	FEE	OW	PA
BROTHERSON 1-27B4	27	020S	040W	4301330185	1775	FEE	OW	PA
JENSEN 1-31A5	31	010S	050W	4301330186	4735	FEE	OW	PA
ROBERTSON 1-29A2	29	010S	020W	4301330189	4740	FEE	OW	PA
WINKLER 1-28A3	28	010S	030W	4301330191	5465	FEE	OW	PA
CHENEY 1-33A2	33	010S	020W	4301330202	1750	FEE	OW	PA
J LAMICQ STATE 1-6B1	06	020S	010W	4301330210	5730	FEE	OW	PA
REESE ESTATE 1-10B2	10	020S	020W	4301330215	5700	FEE	OW	PA
REEDER 1-17B5	17	020S	050W	4301330218	5460	FEE	OW	PA
ROBERTSON UTE 1-2B2	02	020S	020W	4301330225	1710	FEE	OW	PA
HATCH 1-5B1	05	020S	010W	4301330226	5470	FEE	OW	PA
BROTHERSON 1-22B4	22	020S	040W	4301330227	5935	FEE	OW	PA
ALLRED 1-16A3	16	010S	030W	4301330232	1780	FEE	OW	PA
BIRCH 1-35A5	35	010S	050W	4301330233	9116	FEE	OW	PA
MARQUERITE UTE 1-8B2	08	020S	020W	4301330235	9122	FEE	OW	PA
BUZZI 1-11B2	11	020S	020W	4301330248	6335	FEE	OW	PA
SHISLER 1-3B1	03	020S	010W	4301330249	5960	FEE	OW	PA
TEW 1-1B5	01	020S	050W	4301330264	5580	FEE	OW	PA
EVANS UTE 1-19B3	19	020S	030W	4301330265	1870	FEE	OW	PA
SHELL 2-27A4	27	010S	040W	4301330266	1776	FEE	WD	PA
DYE 1-29A1	29	010S	010W	4301330271	99990	FEE	OW	PA
VODA UTE 1-4C5	04	030S	050W	4301330283	4530	FEE	OW	PA
BROTHERSON 1-28A4	28	010S	040W	4301330292	9114	FEE	OW	PA
MEAGHER 1-4B2	04	020S	020W	4301330313	8402	FEE	OW	PA
NORLING 1-9B1	09	020S	010W	4301330315	1811	FEE	OW	PA
S. BROADHEAD 1-9C5	09	030S	050W	4301330316	5940	FEE	OW	PA

El Paso E7 Company, L.P. (N3065) to EP Energy E7 Company, L.P. (N3850) effective 6/1/2012

TIMOTHY 1-09A3	09	010S	030W	4301330321	10883	FEE	OW	PA
BARRETT 1-34A5	34	010S	050W	4301330323	9115	FEE	OW	PA
MEAGHER TRIBAL 1-9B2	09	020S	020W	4301330325	9121	FEE	OW	PA
PHILLIPS UTE 1-3C5	03	030S	050W	4301330333	1816	FEE	OW	PA
ELLSWORTH 1-20B4	20	020S	040W	4301330351	6375	FEE	OW	PA
LAWSON 1-28A1	28	010S	010W	4301330358	5915	FEE	OW	PA
AMES 1-23A4	23	010S	040W	4301330375	1901	FEE	OW	PA
HORROCKS 1-6A1	06	010S	010W	4301330390	5675	FEE	OW	PA
SHRINE HOSPITAL 1-10C5	10	030S	050W	4301330393	5565	FEE	OW	PA
GOODRICH 1-18B2	18	020S	020W	4301330397	5485	FEE	OW	PA
SWD POWELL 3	13	010S	020W	4301330478	10708	FEE	WD	PA
BODRERO 1-15B3	15	020S	030W	4301330565	4534	FEE	OW	PA
MOON TRIBAL 1-30C4	30	030S	040W	4301330576	2360	FEE	OW	PA
DUNCAN 2-9B5	09	020S	050W	4301330719	5440	FEE	OW	PA
FISHER 1-16A4	16	010S	040W	4301330737	2410	FEE	OW	PA
URRUTY 2-34A2	34	010S	020W	4301330753	9117	FEE	OW	PA
GOODRICH 1-24A4	24	010S	040W	4301330760	2415	FEE	OW	PA
CARL SMITH 2-25A4	25	010S	040W	4301330776	9136	FEE	OW	PA
ANDERSON 1-A30B1	30	020S	010W	4301330783	9137	FEE	OW	PA
CADILLAC 3-6A1	06	010S	010W	4301330834	6316	FEE	OW	PA
MCELPRANG 2-31A1	31	010S	010W	4301330836	8439	FEE	OW	PA
REESE ESTATE 2-10B2	10	020S	020W	4301330837	2417	FEE	OW	PA
CLARK 2-9A3	09	010S	030W	4301330876	2416	FEE	OW	PA
JENKINS 3-16A3	16	010S	030W	4301330877	9790	FEE	OW	PA
CHRISTENSEN 2-26A5	26	010S	050W	4301330905	10710	FEE	OW	PA
FORD 2-36A5	36	010S	050W	4301330911	9630	FEE	OW	PA
MORTENSEN 2-32A2	32	010S	020W	4301330929	9486	FEE	OW	PA
WILKERSON 1-20Z1	20	010N	010W	4301330942	5452	FEE	OW	PA
UTE TRIBAL 2-4A3 S	04	010S	030W	4301330950	10230	FEE	OW	PA
OBERHANSLY 2-31Z1	31	010N	010W	4301330970	9262	FEE	OW	PA
MORRIS 2-7A3	07	010S	030W	4301330977	9725	FEE	OW	PA
POWELL 2-08A3	08	010S	030W	4301330979	10175	FEE	OW	PA
FISHER 2-6A3	06	010S	030W	4301330984	10110	FEE	OW	PA
JACOBSEN 2-12A4	12	010S	040W	4301330985	10480	FEE	OW	PA
CHENEY 2-33A2	33	010S	020W	4301331042	10313	FEE	OW	PA
HANSON TRUST 2-29A3	29	010S	030W	4301331043	5306	FEE	OW	PA
BURTON 2-15B5	15	020S	050W	4301331044	10205	FEE	OW	PA
EVANS-UTE 2-17B3	17	020S	030W	4301331056	10210	FEE	OW	PA
ELLSWORTH 2-20B4	20	020S	040W	4301331090	5336	FEE	OW	PA
REMINGTON 2-34A3	34	010S	030W	4301331091	1902	FEE	OW	PA
WINKLER 2-28A3	28	010S	030W	4301331109	4519	FEE	OW	PA
TEW 2-10B5	10	020S	050W	4301331125	1751	FEE	OW	PA
LINDSAY 2-33A4	33	010S	040W	4301331141	1756	FEE	OW	PA
FIELDSTED 2-28A4	28	010S	040W	4301331293	10665	FEE	OW	PA
POWELL 4-13A2	13	010S	020W	4301331336	11177	FEE	GW	PA
DUMP 2-20A3	20	010S	030W	4301331505	11691	FEE	OW	PA
SMITH 2X-23C7	23	030S	070W	4301331634	12382	FEE	D	PA
MORTENSEN 3-32A2	32	010S	020W	4301331872	11928	FEE	OW	PA
TODD USA ST 1-2B1	02	020S	010W	4304730167	99998	FEE	OW	PA
STATE 1-7B1E	07	020S	010E	4304730180	5555	FEE	OW	PA
BACON 1-10B1E	10	020S	010E	4304730881	5550	FEE	OW	PA
PARIETTE DRAW 28-44	28	040S	010E	4304731408	4537	FEE	OW	PA
REYNOLDS 2-7B1E	07	020S	010E	4304731840	4960	FEE	OW	PA
STATE 2-35A2	35	010S	020W	4301330156	4715	ML-22874	OW	PA
UTAH STATE L B 1-11B1	11	020S	010W	4304730171	5530	ML-23655	OW	PA
STATE 1-8A3	08	010S	030W	4301330286	5655	ML-24316	OW	PA
UTAH FEDERAL 1-24B1	24	020S	010W	4304730220	590	ML-26079	OW	PA
CEDAR RIM 15	34	030S	060W	4301330383	6395	14-20-462-1329	OW	S

El Paso E8 Company, L.P. (N3065) to EP Energy E8 Company, L.P. (N3850) effective 6/1/2012

UTE TRIBAL 2-24C7	24	030S	070W	4301331028	10240	14-20-H62-1135	OW	S	
CEDAR RIM 12	28	030S	060W	4301330344	6370	14-20-H62-1323	OW	S	
CEDAR RIM 16	33	030S	060W	4301330363	6390	14-20-H62-1328	OW	S	
SPRING HOLLOW 2-34Z3	34	010N	030W	4301330234	5255	14-20-H62-1480	OW	S	
EVANS UTE 1-17B3	17	020S	030W	4301330274	5335	14-20-H62-1733	OW	S	
UTE JENKS 2-1-B4 G	01	020S	040W	4301331197	10844	14-20-H62-1782	OW	S	
UTE 3-12B3	12	020S	030W	4301331379	11490	14-20-H62-1810	OW	S	
UTE TRIBAL 9-4B1	04	020S	010W	4301330194	5715	14-20-H62-1969	OW	S	
UTE TRIBAL 2-21B6	21	020S	060W	4301331424	11615	14-20-H62-2489	OW	S	
UTE 1-33B6	33	020S	060W	4301330441	1230	14-20-H62-2493	OW	S	
UTE 2-22B5	22	020S	050W	4301331122	10453	14-20-H62-2509	OW	S	
UTE 1-18B1E	18	020S	010E	4304730969	9135	14-20-H62-2864	OW	S	
LAUREN UTE 1-23A3	23	010S	030W	4301330895	9403	14-20-H62-3981	OW	S	
UTE 2-28B6	28	020S	060W	4301331434	11624	14-20-H62-4622	OW	S	
UTE 1-27B6X	27	020S	060W	4301330517	11166	14-20-H62-4631	OW	S	
UTE 2-27B6	27	020S	060W	4301331449	11660	14-20-H62-4631	OW	S	
CEDAR RIM 10-15C6	15	030S	060W	4301330328	6365	14-20-H62-4724	OW	S	
UTE 5-30A2	30	010S	020W	4301330169	5910	14-20-H62-4863	OW	S	
UTE TRIBAL G-1 (1-24C6)	24	030S	060W	4301330298	4533	14-20-H62-4866	OW	S	
UTE TRIBAL FEDERAL 1-30C5	30	030S	050W	4301330475	665	14-20-H62-4876	OW	S	
SMB 1-10A2	10	010S	020W	4301330012	5865	FEE	OW	S	
KENDALL 1-12A2	12	010S	020W	4301330013	5875	FEE	OW	S	
CEDAR RIM 2	20	030S	060W	4301330019	6315	FEE	OW	S	
URRUTY 2-9A2	09	010S	020W	4301330046	5855	FEE	OW	S	
BROTHERSON 1-14B4	14	020S	040W	4301330051	1535	FEE	OW	S	
RUST 1-4B3	04	020S	030W	4301330063	1575	FEE	OW	S	
MONSEN 1-21A3	21	010S	030W	4301330082	1590	FEE	OW	S	
BROTHERSON 1-10B4	10	020S	040W	4301330110	1614	FEE	OW	S	
FARNSWORTH 1-12B5	12	020S	050W	4301330124	1645	FEE	OW	S	
ELLSWORTH 1-16B4	16	020S	040W	4301330192	1735	FEE	OW	S	
MARSHALL 1-20A3	20	010S	030W	4301330193	9340	FEE	OW	S	
CHRISTMAN BLAND 1-31B4	31	020S	040W	4301330198	4745	FEE	OW	S	
ROPER 1-14B3	14	020S	030W	4301330217	1850	FEE	OW	S	
BROTHERSON 1-24B4	24	020S	040W	4301330229	1865	FEE	OW	S	
BROTHERSON 1-33A4	33	010S	040W	4301330272	1680	FEE	OW	S	
BROTHERSON 1-23B4	23	020S	040W	4301330483	8423	FEE	OW	S	
SMITH ALBERT 2-8C5	08	030S	050W	4301330543	5495	FEE	OW	S	
VODA JOSEPHINE 2-19C5	19	030S	050W	4301330553	5650	FEE	OW	S	
HANSEN 1-16B3	16	020S	030W	4301330617	9124	FEE	OW	S	
BROTHERSON 1-25B4	25	020S	040W	4301330668	9126	FEE	OW	S	
POWELL 2-33A3	33	010S	030W	4301330704	2400	FEE	OW	S	
BROWN 2-28B5	28	020S	050W	4301330718	9131	FEE	OW	S	
EULA-UTE 1-16A1	16	010S	010W	4301330782	8443	FEE	OW	S	
JESSEN 1-15A4	15	010S	040W	4301330817	9345	FEE	OW	S	
R HOUSTON 1-22Z1	22	010N	010W	4301330884	936	FEE	OW	S	
FIELDSTED 2-27A4	27	010S	040W	4301330915	9632	FEE	OW	S	
HANSKUTT 2-23B5	23	020S	050W	4301330917	9600	FEE	OW	S	
TIMOTHY 3-18A3	18	010S	030W	4301330940	9633	FEE	OW	S	
BROTHERSON 2-3B4	03	020S	040W	4301331008	10165	FEE	OW	S	
BROTHERSON 2-22B4	22	020S	040W	4301331086	1782	FEE	OW	S	
MILES 2-35A4	35	010S	040W	4301331087	1966	FEE	OW	S	
ELLSWORTH 2-17B4	17	020S	040W	4301331089	1696	FEE	OW	S	
RUST 2-36A4	36	010S	040W	4301331092	1577	FEE	OW	S	
EVANS 2-19B3	19	020S	030W	4301331113	1777	FEE	OW	S	
FARNSWORTH 2-12B5	12	020S	050W	4301331115	1646	FEE	OW	S	
CHRISTENSEN 3-4B4	04	020S	040W	4301331142	10481	FEE	OW	S	
ROBERTSON 2-29A2	29	010S	020W	4301331150	10679	FEE	OW	S	
CEDAR RIM 2A	20	030S	060W	4301331172	10671	FEE	OW	S	

El Paso E9 Company, L.P. (N3065) to EP Energy E9 Company, L.P. (N3850) effective 6/1/2012

HARTMAN 2-31A3	31	010S	030W	4301331243	11026	FEE	OW	S	
GOODRICH 2-2B3	02	020S	030W	4301331246	11037	FEE	OW	S	
JESSEN 2-21A4	21	010S	040W	4301331256	11061	FEE	OW	S	
BROTHERSON 3-23B4	23	020S	040W	4301331289	11141	FEE	OW	S	
MYRIN RANCH 2-18B3	18	020S	030W	4301331297	11475	FEE	OW	S	
BROTHERSON 2-2B5	02	020S	050W	4301331302	11342	FEE	OW	S	
DASTRUP 2-30A3	30	010S	030W	4301331320	11253	FEE	OW	S	
YOUNG 2-30B4	30	020S	040W	4301331366	11453	FEE	OW	S	
IORG 2-10B3	10	020S	030W	4301331388	11482	FEE	OW	S	
MONSEN 3-27A3	27	010S	030W	4301331401	11686	FEE	OW	S	
HORROCKS 2-5B1E	05	020S	010E	4304732409	11481	FEE	OW	S	
LARSEN 1-25A1	25	010S	010W	4304730552	815	FEE	OW	TA	
DRY GULCH 1-36A1	36	010S	010W	4304730569	820	FEE	OW	TA	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: BROTHERSON 1-2B4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013300620000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1478 FNL 1459 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 02 Township: 02.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/4/2013	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="repair"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 See attached procedure for details.

**Approved by the Utah Division of Oil, Gas and Mining**  
**Date:** February 06, 2013  
**By:** *Derek Duff*

NAME (PLEASE PRINT) Lisa Morales	PHONE NUMBER 713 997-3587	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 2/1/2013	

## Brotherson 1-2B4 Pump Failure Procedure Summary

- POOH w/rods, pump, and tubing
- Acidize existing perms w/ 5,000 gal 15% HCl.
- RIH w/ BHA, tubing and rod string
- Clean location and resume production