

3-17-71 Temporarily Abandoned
 4-12-72 Notice to Re-enter & Deepen

FILE NOTATIONS

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

Checked by Chief *PMB*
 Approval Letter *9-14-70*
 Disapproval Letter

COMPLETION DATA:

Date Well Completed
 W. WW. TA.
 W. OS. PA.

Location Inspected
 Bond released
 State or Fee Land

LOGS FILED

Driller's Log.....
 Electric Logs (No.)
 E. I. Dual I Lat. GR-N. Micro.
 BHC Sonic GR. Lat. Mi-L. Sonic.
 CLog. CCLog. Others.

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

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

7. Unit Agreement Name

2. Name of Operator

Shell Oil Company (Rocky Mountain Division Production)

8. Farm or Lease Name

Brotherson

3. Address of Operator

1700 Broadway, Denver, Colorado 80202

9. Well No.

1-14B4

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

At surface

2100' FNL and 750' FEL Sec 14

10. Field and Pool, or Wildcat

Altamont

At proposed prod. zone

orthodox

SUBSENE

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

SE/4 NE/4 Section 14-
T 2S-R 4W

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

3 1/2 miles south-southwest from Altamont

12. County or Parrish

Duchesne

13. State

Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) qtr qtr section
750' from nearest property line & 570' from

16. No. of acres in lease

1240

17. No. of acres assigned to this well

--

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

None

19. Proposed depth

10,250'

20. Rotary or cable tools

Rotary

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

6121 GL (Ungraded)

22. Approx. date work will start*

9-15-70

23. PROPOSED CASING AND CEMENTING PROGRAM

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

*Not great area (1961)
but file section - 14B*

As per attached certified survey plat and drilling prognosis.

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.

Signed *J. C. Howell* Title: Division Petroleum Engineer Date: Sept. 10, 1970

(This space for Federal or State office use)

Permit No. *AB-013-30057* Approval Date

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

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

7. Unit Agreement Name

8. Farm or Lease Name

Brotherson

9. Well No.

1-14B4

10. Field and Pool, or Wildcat

Altamont

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

SE/4 NE/4 Section 14-T 2S-R 4W

12. County or Parrish 13. State

Duchesne Utah

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Shell Oil Company (Rocky Mountain Division Production)

3. Address of Operator

1700 Broadway, Denver, Colorado 80202

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

At surface

2100' FNL and 750' FEL Sec 14

At proposed prod. zone

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

3 1/2 miles south-southwest from Altamont

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

750' from nearest property line & 570' from qtr qtr sec

16. No. of acres in lease

1240

17. No. of acres assigned to this well

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

None

19. Proposed depth

Deepen to 13,000'

20. Rotary or cable tools

Rotary

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

6121 GL (Ungraded)

22. Approx. date work will start*

Soon

23. PROPOSED CASING AND CEMENTING PROGRAM

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

Initial Notice of Intention to Drill filed 9-10-70.
Permit No. 43-013-30051

Prognosis to Deepen is attached

Present
T.D. 10,150
T.A.

139-3/139-4
mead

Re-enter & Deepen -

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. Howell Title Division Operations Engineer Date April 10, 1972

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

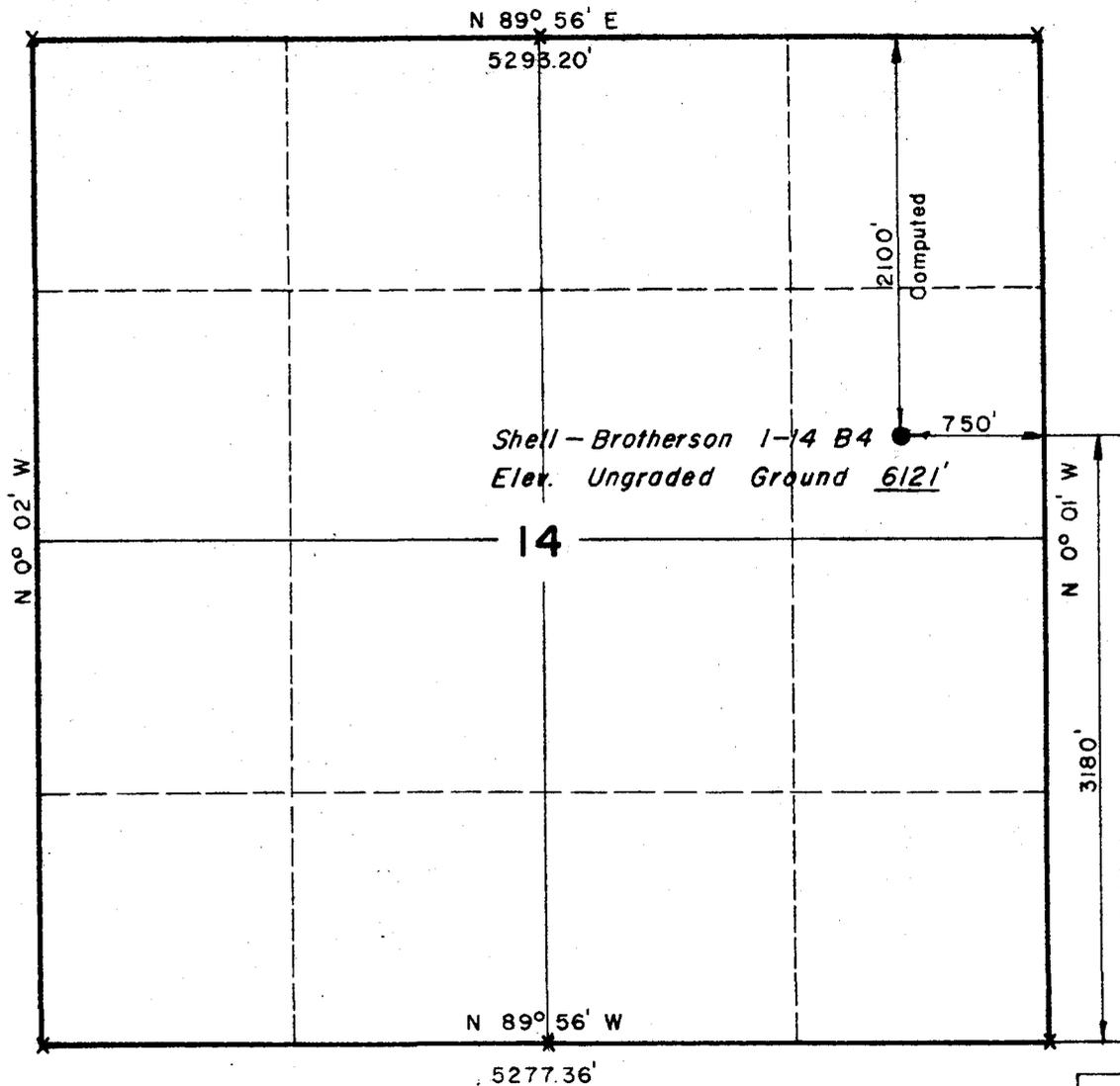
Conditions of approval, if any:

T2S, T4W, U.S.B.&M.

PROJECT

SHELL OIL COMPANY

Well location, SHELL-BROTHERSON 1-14 B4,
 Located as shown in the SE 1/4 NE 1/4
 Sec. 14 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.

Lawrence C. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO 3137
 STATE OF UTAH

X = Corners Found (stone)

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

SCALE 1" = 1000'	DATE 8 Sept., 1970
PARTY L.K. H.M.	REFERENCES GLO Plot
WEATHER Windy - Rain	FILE SHELL OIL

SCHEDULE 6
DRILLING WELL PROGNOSIS

WELL NAME Brotherson 1-14 B-4
 TYPE WELL Development
 FIELD / AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) SE CANE Sec. 14-T2S-R4W, Duchesne County, Utah

EST. G. L. ELEVATION 6,110 PROJECTED TD 10,250 OBJECTIVE Wasatch

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 1/2	13 3/8		1°	300'	SAMPLES: 30' sfc. csg. to 4500' 10' 4500' to T.D.
12 1/4	8 5/8		1°	1000'	CORES: 160' in transition. Possible sidewall cores.
	6100'			6500'	DST'S: 2 in the Green River
7 7/8	5 1/2	BHC/AC/GR DIL/SNP/PML FDC/ 2 Man Mud logging unit	1°	1000'	DEVIATION CONTROL Dogleg severity less than 1 1/2° per any 100' interval.
					CEMENT 13 3/8 Pozmix A (1:1) w/3% CaCl ₂ circulated to surface.
					MUD Water From sfc. to max. possible depth with adequate cleaning.
					Gel/Chemical Weighted as necessary to T.D.
				10,000	
				TD 10,250	

ORIGINATOR LAP

DATE 8-31-70

ENGINEERING APPROVAL: [Signature]

OPERATIONS APPROVAL:

EXPLOITATION [Signature]

[Signature]
DIV. DRILLING SUPT.

MECH. [Signature] 9/8/70

Sec. 14
SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$
2100' FNL
750' FEL

2S

4W

1-14-B4

-

-

-

-

-

Brotherson Lease
Drilling - Depth 9,270'
Fee Land

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

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

FILE IN DUPLICATE

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

1320' FEL
Sec. 14
SW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$
2100' FNL
750' FEL

2S

4W

1-14-B4

-

-

-

-

-

Brotherson Lease
Drilling Depth 9,812'
Fee Land

Note: There were 36,823 runs or sales of oil; 0 M cu. ft. of
gas sold; 0 runs or sales of gasoline during the month.

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

FILE IN DUPLICATE

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

September 14, 1970

Shell Oil Company
1700 Broadway
Denver, Colorado 80220

Re: Well No. Brotherson Fee 1-14B4
Sec. 14, T. 2 S, R. 4 W,
Duchesne County, Utah
API No. 43-013-30051

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary for you 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 the said period.

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

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
Enclosures

A

3113

DIVISION OF OIL & GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES

PLUGGING PROGRAMS

NAME OF COMPANY: Shell Oil Co.

WELL NAME: Shell Brothers 1-14B4

Sec. 14 Township 25 Range 4W County Duchess

Verbal Approval Was Given to Plug the Above Mentioned Well in the Following Manner:

Temp. Abandon for bigger rig, more ^{Completion} ~~off~~
TD. 10,150'

9 7/8" casing at 7100'

4 7/8" liner at 6871' - 9921

Open hole below liner (9921' to 10,150')

Set retrievable bridge plug ~~off~~ in 9 7/8" above
4 7/8" liner, set pressure tab, able to bleed
~~off~~ when re-entered, put on well head.

Had zone in 1-23B4 well at 10,150', shut in
1-14B4 well at same depth & isolate 1-23B4
& test, did not increase the production
of 1-23B4 well.

Date Approved: 3-16-71

Signed: Schem

Verbal approval given by USGS -

REVISED DRILLING PROGNOSIS
(7100' TO 9500')
SHELL-BROTHERSON 1-14B4
SECTION 14-T2S-R4W
DUCHESNE COUNTY, UTAH

PURPOSE OF REVISION: Total depth of the well has been changed to 9500' in order to allow the use of a low-solids low-weight drilling fluid with the ultimate goal of reducing formation damage. It is of primary importance to use the lowest weight fluid possible consistent with rig and personnel safety.

I. SALT WATER PROGRAM

1. Drill out of 9-5/8" casing with a salt water. No materials are to be added to the water except salt (NaCl only) and a flocculant if necessary. 8.8 lb/gal. salt water is suggested for drilling out.
2. Use a flocculant, desander, and desilter to maintain minimum solids. Considerable pit dumping and cleaning is to be expected.
3. Contingent upon evaluation, a slotted liner or liner with external casing packers will be run but not cemented.

Notes

- a. Highest expected formation pressure is equivalent to a 9.6 lb/gal. fluid. Mud weight should not exceed formation pressure more than .2 lb/gal. (\approx 100 psi @ 9500'). If drill stem test information is unavailable for formation pressures, hole conditions will determine weight.
- b. Maintain circulation rate @ 250-290 GPM which should give rising velocity of 125 to 140 FPM. Minimize circulating pressure with larger nozzles or removal of nozzles.
- c. Run DST's, cores, and logs as directed and as hole conditions allow. DST's are planned for each 300' interval drilled.

II ALTERNATE PROGRAMS

1. Hole cleaning - if hole cleaning problems exist such that drilling with salt water can be continued but evaluation cannot, drilling will continue with salt water.
2. Hole cleaning - if hole cleaning problems exist such that drilling cannot be continued with salt water, add Flosal to aid cleaning. Suggest 2 lb/bbl as maximum addition prior to T.D., at which point 4 lb/bbl slug can be used prior to logs.
3. Additional weight - if a mud weight in excess of approximately 10 lb/gal. is required, calcium carbonate and Flosal may be added to increase the weight.
4. Lost circulation - loss of salt water (seepage) should be tolerated up to the point that it is no longer possible to mix as fast as it is lost. Loss of large volumes (1000 bbls.+) should be accepted as long as rig safety is not endangered.

Revised Drilling Prognosis
Shell-Brotherson 1-14B4

5. Lost circulation - if severe lost circulation is experienced, returns are not regained after loosing 1000 bbls.+, and there are no indications of decreasing loss, add Flosal, CaCO₃, Limestone, and oyster shells as necessary to regain circulation. If this does not suffice, add conventional materials.

W. Edwards
Division Drilling Superintendent

Div. P.E. JWA 11/16/70

Div. M.E. DOB 11-16-70

Concur R. A. Flohr
Division Production Manager

JWA
DES/gl
11/16/70

5

April 12, 1972

Shell Oil Company
1700 Broadway
Denver, Colorado

Re: Brotherson #1-14B4
Sec. 14, T. 2 S, R. 4 W,
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to re-enter and deepen the above referred to well is hereby granted in accordance with the ORDER issued in Cause No. 139-3/139-4.

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

- (1) Recording mud pit level indicator to determine mud pit volume gains and losses. This indicator shall include a visual or audio warning device.
- (2) Mud volume measuring device for accurately determining mud volumes required to fill the hole on trips.
- (3) Mud return indicator to determine that returns essentially equal the pump discharge rate.

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

Shell Oil Company
Page Two
April 12, 1972

The API number of this well is 43-013-30051.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

PH

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
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2100' FNL and 750' FEL Section 14		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6121 GL (ungraded)	9. WELL NO. 1-14B4
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14- 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"/>
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) _____	

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

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

As per attached prognosis

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

SIGNED K R Jordan TITLE Division Operations Engr. DATE June 23, 1972

(This space for Federal or State office use)

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

COMPLETION PROGNOSIS
BROTHERSON 1-14B4
SECTION 14-T2S-R4W
DUCHESNE COUNTY, UTAH

PERTINENT DATA:

Elev: 6121' GL (ungraded)
KB-GL: 20'
TD: 13,000'
PBD: 12,998' (bottom of uncemented liner)
Shell W.I.: 100%
D&C AFE: 573300 (\$1,038,000 thru second supplement)

CURRENT STATUS:

Cased hole standing w/14.9 ppg mud

PROCEDURE:

1. MI&RU completion rig. Install and test BOPE.
2. Run 2 7/8" tbg. w/7 5/8" csg scraper to top of 5 1/2" liner @ 9657'. At intervals on way in hole displace 14.9 ppg mud w/fresh wtr. POOH. SI & observe for flowback.
3. Run 2 7/8" tbg. w/±1,200' 2 1/16" tail to btm of 3 1/2" CS Hydril liner (drift = 2.797") @ 13,000'. Displace mud w/fresh wtr until returns are clean and clear. Shut in and observe for flow back. If no flowback, spot ±75 bbls of 5% NaCl wtr on btm. POOH.
4. Run CBL/VDL logs from 3 1/2" liner top (11,868') to indicated cmt top in 7 5/8" csg. Run PDC log in 3 1/2" and 5 1/2" liners. While in hole w/CBL, pressure csg w/3,500 psi to (1) test csg and, (2) reduce microannulus for better CBL.
5. On electric line, run and set 7 5/8" Bkr Model "D" pkr w/o junk pusher and expendable plug but w/flapper valve @ 9650'.
6. Run, land, and pack-off 5000' of 5 1/2" 14# K-55 ST&C csg.
7. Install BPV in 5 1/2" csg hanger. Remove BOP stack. Install 10" x 5000 x 6" 5000 psi WP tbg spool. Install and test BOPE.
8. Run production equipment as follows:
 - a. Bkr Model "C" expendable plug holder w/Model "B" pushout plug in place shop tested to 10,000 psi in both directions.
 - b. 20' x 2 7/8" N-80 10rd nonperforated production tube.
 - c. Otis overshot tubing seal divider w/2.313 landing nipple and 2.255" no-go.

- d. Approximately 60' of 2 7/8" N-80 EUE tbg.
- e. Camco "KBM-G" mandrel w/dummy in place.
- f. Approximately 4,090' of 2 7/8" N-80 EUE tbg.
- g. Camco "KBM-G" mandrel w/dummy in place.
- h. Approximately 5,500' 2 7/8" N-80 EUE tbg.

Note: Press test tbg to 7500 psi on way in.

- 9. Sting and latch into pkr. Test pkr w/20,000# set down and tension. Mark for landing w/0 - 5000# weight on pkr. Jay-off, space out, circulate w/fresh wtr inhibited in accordance w/Oil Letter No. 1, land tbg and lock-in.

Note: Displace tbg w/5% NaCl wtr (± 56 bbls) prior to landing.

- 10. Install BPV in tbg hanger. Remove BOP stack. Install and nipple up 10,000 psi WP frac tree. Install test plug and test tree to 10,500 psi.

11. MOCR

12. Knock out expendable plug.

- 13. Perforate from top to btm one (1) hole at each of the following depths(42 intervals):
(Depths refer to CNL-FDC log dated 5/18/72.)

10,309	10,662	10,918	11,160	11,529
10,369	10,667	10,930	11,184	11,593
10,436	10,687	10,975	11,275	11,665
10,440	10,706	10,982	11,311	11,685
10,446	10,730	11,044	11,420	11,699
10,579	10,736	11,082	11,432	11,718
10,598	10,768	11,090	11,441	11,835
10,611	10,897	11,135	11,492	11,851
10,623	10,908	11,152	11,496	11,863

Perforate unidirectional using a magnetically decentralized 2" steel tube carrier gun. (Use JRC charges)

- 14. Acid treat the gross perms 10,309-11,863' as follows:

- a. Pump 20,000 gals 15% HCl at a constant rate of 10-12 B/M w/a maximum allowable injection pressure of 10,000 psi. Evenly distribute 90 7/8" phenolic ball sealers (SG = 1.4) through the acid. If ball out occurs before all acid is injected into formation, press up to 10,000 psi and hold for 3 minutes, bleed back for 5 mins and inject remainder of acid. Hold 3000 psi on tbg-csg annulus. Heat all fluids to 80°F.

Acid to contain the following additives per 1000 gals: 20# WG-6 (J-133), 3 gal HAI-50 (A-170), 3 gal HC-2 (F-52), and 3 gal 3-N (W-27).

COMPLETION PROGNOSIS
BROTHERSON 1-14B4

3

b. Flush w/4400 gal fresh wtr containing 20# WG-6 per 1000 gal.

15. SI overnight.

16. Perforate uncemented 3½" liner from btm up w/one (1) hole @ each of the following depths: (Depths refer to GR/N log dated 6/6/72.) (34 intervals)

11,907	12,051	12,219	12,406	12,562
11,917	12,059	12,239	12,420	12,644
11,970	12,081	12,288	12,436	12,811
11,997	12,089	12,321	12,456	12,886
12,012	12,099	12,364	12,464	12,896
12,028	12,113	12,374	12,469	12,919
12,038	12,127	12,388	12,498	

Perforate w/same type gun and charge as used in Step 13. Do not perf collars.

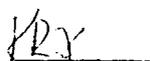
17. Put on production.

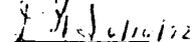
18. Run production logs as required.



B. L. Faulk

SPP JPP:
6/15/72

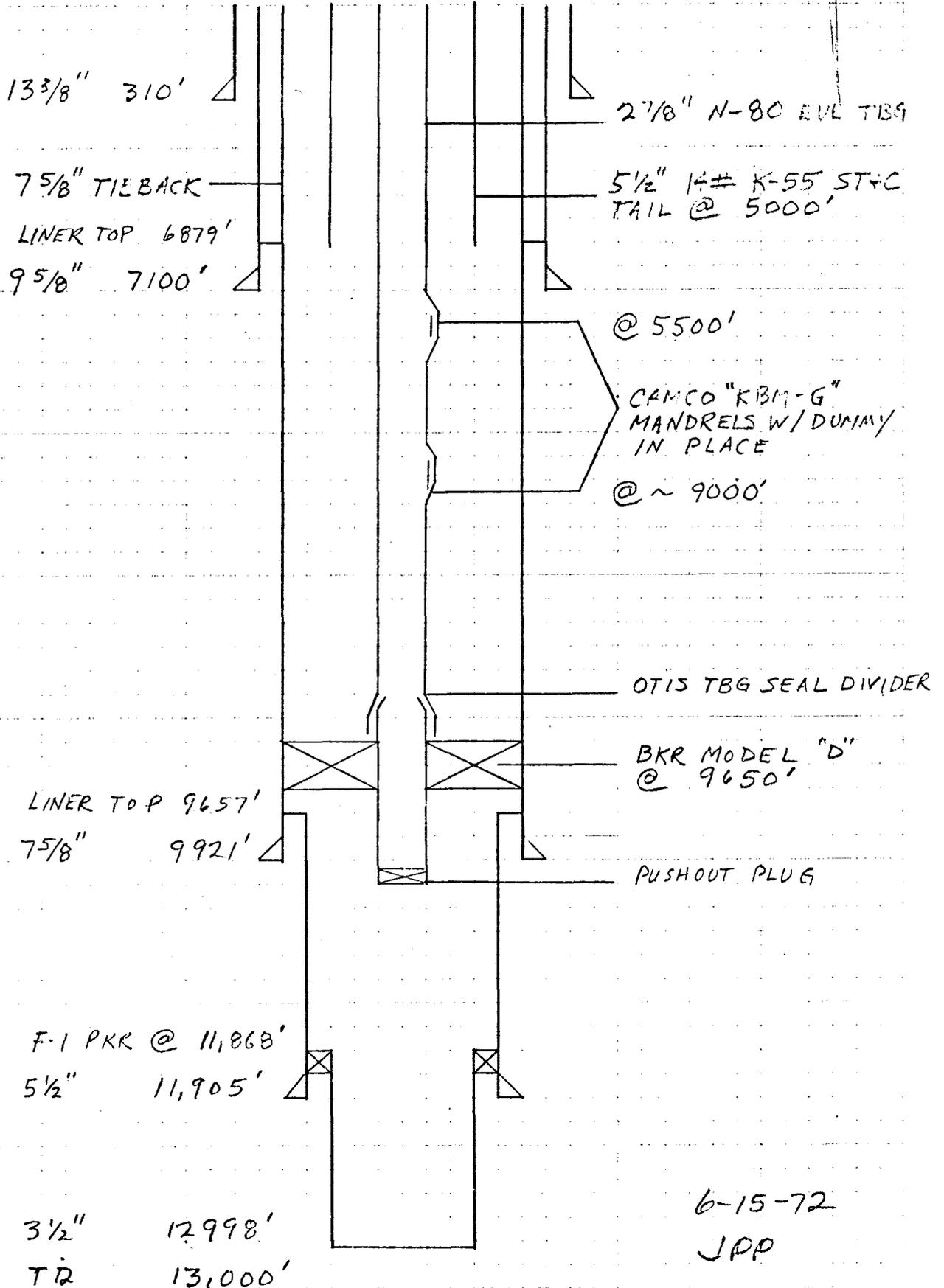
 Div. O. E. 

Div. P. E. 

Attachments:

- (1) Proposed tubing detail
- (2) Casing detail

PROPOSED TUBING DETAIL
 BROTHERSON 1-14B4



BROTHERSON 1-14B4
 SEC 14, T2S R4W
 DUCHESNE CO., UTAH
 ELEV. 6121 G.L. (UNGRADED)

13-3/8", 54.5 LB., K-55
 @ 310' W/400 SX.
 "G" CMT., 3% CaCl₂

310'

TIEBACK TO SURFACE
 7-5/8", 33.7 LB., S-95 SFJ-P
 BOT TIEBACK SLEEVE
 @ 6911' CMT. W/100 SX.
 CLASS "G", 1% CaCl₂, 1%
 CFR-2

TOP 7-5/8" LINER @ 6879'

9-5/8", 40 LB., S-95
 @ 7100' W/200 SX.
 1:1 POZ & 150 SX. "G" CMT.

7100'

TOP 5-1/2" LINER HANGER @ 9657'

7-5/8" LINER, 38 LB., N-80 HYDRIL
 @ 9921' W/128 SX. "G" CMT.,
 15% SALT, 1% CFR-2, 2% HR-4
 & 1/8 LB. NYLON FIBER

9921'

5-1/2", 20 LB., N-80 & 500-95 LINER @
 11,905', CMT. W/400 SX. CLASS "G",
 2% GEL, 1% CFR-2 & 3/10% HR-4
 BAKER MODEL F-1 PACKER
 TOP @ 11,868' (BORE 3.0")

11,905'

3-1/2", 10.3 LB., N-80 CS HYDRIL
 @ 12,998' UNCEMENTED

12,998'

13,000' T.D.

Depth	Mud WT	Gradient
10,150	10.4	.540
10,245	10.7	.555
10,525	11.4	.592
10,701	12.5	.649
11,021	12.8	.664
11,185	13.1	.680
11,238	13.4	.696
11,361	13.7	.711
11,568	14.4	.747
11,816	14.7	.763
11,906	14.8	.768
12,024	14.9	.773
12,525	14.9	.773
13,000	14.9	.773

UTAH

gfb

ALTAMONT

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

"FR" RURT.
Located 2100' FNL and 750' FEL
Section 14-T2S-R4W, Duchesne County, Utah
Elev: 6121 GL (Ungraded)
10,250' Green River-Wasatch Test
Shell Working Interest - 100%
Drilling Contractor - Loffland Drlg Company
This well is designed to evaluate and develop Middle Green
River reservoirs indicated in Miles #1-35A4 and Brotherson
#1-23B4. OCT 8 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

RURT. OCT 9 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

310/49/2/310. Nippling up. Spudded 10 a.m. 10/10/70.
Drld 17½" hole to 310'. Ran and cmt'd 8 jts 13 3/8" 54.5#
K-55 csg at 310' w/400 sx Class "G" cmt, 3% CaCl₂. Displaced
plug to 280'. OCT 12 1970
Mud: 9.4 x 37 x 9.3 (sal 320) (plastic vis 10) (yield point 5).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

310/49/3/0. Nippling up. OCT 13 1970

Shell Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

310/49/4/0. Drlg cmt at 270'. Nippled up and press tested
BOP's to 1500 psi. OCT 14 1970
Mud: Water.

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch

1350/49/5/1040. Drilling.
Mud: Native. OCT 15 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

1990/49/6/640. Drilling. Dev: ¼" @ 1491'.
Tight hole from 887-949 on trip for Bit #5.
Washed and reamed 180' from 1311-1491 on trip.
Mud: Native. OCT 16 1970

Shell-Brotherson 3641/49/9/1651. Tripping for new bit. Dev: 0° @ 3263.
 No. 1-14B4 Mud: Water. OCT 19 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4047/49/10/406. Drilling. Dev: ¼° @ 3641.
 No. 1-14B4 Mud: Native. OCT 20 1970
 (D) Loffland
 10,250' Green River
 Wasatch Test

Shell-Brotherson 4455/49/11/408. Drilling. Dev: ¼° @ 4061.
 No. 1-14B4 Mud: Native. OCT 21 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4762/49/12/307. Tripping. Dev: ¼° @ 4482.
 No. 1-14B4 Mud: Native. OCT 22 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4916/49/13/154. Drilling. Dev: ½° @ 4762.
 No. 1-14B4 Mud: Native. OCT 23 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 5490/49/16/574. Attempting to back off collars at 4851.
 No. 1-14B4 Stuck DP on 10/25/70. Bit at 5270. Ran sfc jars and did
 (D) Loffland not work. Ran freepoint (3 shots) at 5177. Collars failed to
 10,250' Green River- break. 1 shot at 4942 & 4980 also failed.
 Wasatch Test Mud: Native. OCT 26 1970

Shell-Brotherson 5490/49/17/0. Cleaning out bridges to top of fish.
 No. 1-14B4 Retrieved top collar and backed off at 4851. Down 1½ hrs
 (D) Loffland water and fuel lines. OCT 27 1970
 10,250' Green River- Mud: 9 x 40 x 11.1 (plastic vis 10) (yield point 2).
 Wasatch Test

Shell-Brotherson 5490/49/18/0. Washing to top of fish and cond hole.
 No. 1-14B4 DP backlashed and unscrewed at 1,000'. Retrieved w/8 3/8"
 (D) Loffland Bowen overshot.
 10,250' Green River- Mud: 9 x 43 x 11.1 (salt 430) (plastic vis 10) (yield
 Wasatch Test point 8). OCT 28 1970

Shell Brotherson 5490/49/19/0. Conditioning hole to go in w/jars.
 No. 1-14B4 Made 15 washing runs tied at 4710.
 (D) Loffland Mud: 9.1 x 51 x 8.1 (salt 440) (plastic vis 14)
 10,250' Green River- (yield point 10). OCT 29 1970
 Wasatch Test

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

5490/49/20/0. Going in hole w/bit. Dev: 1 3/4° @ 5490.
Ran in w/17 collars, LI jars, Bowen jars, one collar on
bottom. Retrieved all of fish 429'. OCT 30 1970
Mud: 9.1 x 58 x 8.1 (plastic vis 14) (yield point 10).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

6036/49/23/546. Drilling.
Mud: 9.1 x 40 x 7.2 (sal 540) (plastic vis 12)
(yield point 1). NOV 2 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

6202/49/24/166 Drilling.
Mud: 9.1 x 41 x 6.9 (Sal 550) (plastic visc 14)
(yield point 4) NOV 3 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

6338/49/25/136. Drilling. Dev: 1° @ 6254.
Bit #14 12 1/4" Smith 4JS. Made 764' in 9 1/2 hrs.
Mud: 9.3 x 41 x 6.3 (sal 540) (plastic vis 15)
(yield point 3). NOV 4 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

6500/49/26/162. Prep to run logs. Dev: 1° @ 6500.
Drlg to 6500. Made short trip, 8 stands, circ and cond
mud for logs. NOV 5 1970
Mud: 9.2 x 50 x 7.5 (sal 540) (plastic vis 16) (yield point 2)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

6602/49/27/102. Drilling. Logs stopped at 6424. Ran
drlg assembly. CO bridge 6424-6434. Raised visc of mud.
Started out of hole for logs - changed orders.
Mud: 9.2 x 49 x 7.5 (sal 570) (plastic vis 19)
(yield point 7). NOV 6 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7053/49/30/451. Drilling. Dev: 1 1/4° @ 6900'.
Mud: 9.3 x 51 x 6 (sal 570) (plastic vis 22) (yield point 3).
NOV 9 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7100/49/31/47. Logging. Dev: 1 1/4° @ 7100.
Mud: 9.4 x 59 x 6 (sal 570) (plastic vis 22).
(yield point 8). NOV 10 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7100/49/32/0. Nippling up 9 5/8" csg.
Ran logs as follows: DIL/SP, Int BHCS/GR/Cal.
Ran drlg assembly w/bottom hole reamed. Circ and
cond mud. Pulled and laid down 9" DC's. Ran and cmt
170 jts 9 5/8" 40# S-95 csg at 7100' w/200 sx 1:1
poz and 150 sx Class "G". Cmt in place 4:30 a.m. NOV 11 1970
Mud: 9.4 x 80 x 6 (sal 580) (plastic vis 43) (yield point 32).

Shell-Brotherson 7100/49/33/0. Nippling up 9 5/8" csg. NOV 12 1970
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

Shell-Brotherson 7100/49/34/0. Changing to SW. Press tested
No. 1-14B4 all BOP's. Ran in w/drlg assembly. Rubber protectors
(D) Loffland on DP. Drilled plugs, float collar, and cmt to 7100'.
10,250' Green River- Cleaning pits. NOV 13 1970
Wasatch Test

Shell-Brotherson 7493/49/37/393. Running DST No. 1.
No. 1-14B4 Dev: 1 1/2° @ 7278, 1 3/4° @ 7493.
(D) Loffland Mixed SW to 9.3#/gal. Displaced mud in hole.
10,250' Green River Drlg to 7493. Began running DST. NOV 16 1970
Wasatch Test Mud: 9.3 (SW) x 47 (84,000 ppm) (solids 5%).

Shell-Brotherson 7500/49/38/7. Tripping in w/core bbl.
No. 1-14B4 DST No. 1 7100 (Btm of csg)-7493)
(D) Loffland Btm of pkr in csg at 7086
10,250' Green River- 3/4" chk in test tool
Wasatch Test Drlg wtr: Rw=0.109 @ 79°F
Op 10 min, strong blow immed. Increased to very
strong. No GTS. SI 90 min.
Op 120 min, strong blow immediately. GTS in 25 min.
Max rate in 30 min = 2 MCF/D. Blow decreased
until nearly dead at end of flow period. SI 406 min.
Recovery
Reversed out following SI w/pkr still set in csg.
17 bbls dk brn oil
7 bbls oil-water emulsion
Rw = 0.084 @ 84°F
(will report sample chamber recovery later)
Press's: (Recorder at 7117)
IHP 3383, IFP 292-298, ISIP 2910, FFP 377-867,
FSIP 2397, FHP 3367.
BHT - 130°F
Ran rerun bit and drld to 7500. Fulled out to pick up
core barrel. NOV 17 1970
Mud: (SW) 9.3 x 28 (chlorides 90,000) (solids 7% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

9270/49/51/940. Pulling test tools.

DST #5 8227-8572 (345').

Johnston hookwall packer. 5' of perforations and opened
@ 8251. 15/16" choke in tool.

Drilling water: (Rw = 0.06 @ 66°F)

Op 10 min. Op w/weak blow (6" H₂O) and increased to strong
blow (15" H₂O) in 5 min. Continued to increase
steadily. No GTS.

SI 90 min

Op 135 min. Op w/weak blow (4" H₂O) and increased to strong
blow (15" H₂O) in 4 min. Max and final air rate
= 5.1 MCF/D. No GTS.

SI 300 min

Recovery

Based on final flow pressure: (3820') 47 bbls drilling water
(Rw = 0.06 @ 66°F) 0.5 bbls oil (34° API @ 108°F.)

Sample Chamber: (Set @ 8191)

1.45 cu. ft. gas @ 1200 psi

1980 cc Drilling water w/trace oil (Rw = .09 @ 60°F) 200 cc's oil.

Pressures: Recorder @ 8199.

IHP 3953, IFP 114-420, ISIP 3517, FFP 503-1867, FSIP 3508,

FHP 3953. Max Temp = 156°F.

DST No. 6 8565-8934. (369')

Johnston hookwall packer. 15/16" choke in tool.

Op 10 min Op w/weak blow (3" H₂O) and increased to
strong blow (15" H₂O) in 2 min. Very strong
blow @ end of flow period.

SI 90 min.

Op 120 min Op w/strong blow (15" H₂O). GTS in 25 min.
Max rate in 40 min = 144 MCF/D.
Final rate = 108 MCF/D.

SI 300 min.

Recovery:

Based on final flow pressure:

10 bbls gas cut oil (29° API @ 60°F.)

26 bbls gas cut drilling water

Sample Chamber:

0.41 cu. ft. gas @ 86 psi.

525 cc's oil

725 cc's drilling water (Rw = 0.10 @ 70°F)

Pressures: Recorder @ 8739.

IHP 4106, IFP 228-499, ISIP 3628, FFP 518-1314,

FSIP 3619, FHP 4097. Max temp = 160°F.

DST No. 7. Misrun.

(Communication around pkrs)

Bit #22 3JS - 687' in 41½ hrs. T-7, B-5.

Bit #23 SCM5 - 336' in 19½ hrs. NOV 30 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7527/49/39/27 Making trip; going in hole.
DST No. 1 7100-7493. (Addition to yesterday's wire)

Sample chamber contained:
1429 cc's oil (28° API)
27.6 CF gas @ 1200 psig
360 cc's wtr (Rw = 0.12 @ 61° F)
(est to be drlg wtr)
(.11 cc's emulsion)

Core No. 1 7500-7527 Cut 27'. Rec 14'.
(DK brn oil on sfc of all of core)

7500-7513.5 Dolomitic silt, 50% silt grains,
40% primary dolomite, 10% mica,
(muscovite & biotite), tight, no
cut or fluorescence.
Occasional, organic material, est
1% red garnet.

7513.5-7514 Ss, med grain, calcite cement, well sorted, well
cemented, 5% dk minerals, 5% mica, tight, N.S.

7514-7527 No recovery

Vertical parting through entire core. No evidence to indicate
parting was on in-place fracture. No additional fractures.
Core bbl twisted off below top stabilizer; left outer bbl &
diamond corehead in hole. Rec'd same w/Bowen overshot. Ran drlg
assembly to clean up hole.

NOV 18 1970

Mud: (SW) 9.2 x 30 (82,000 chlorides) (solids 6% salt)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

7556/49/40/29. Cutting Core No. 2.

Drilled from 7527-7528 w/drlg assembly. Began coring
Core #2 @ 7528.

NOV 19 1970

Mud: 9.2 x 29 (chlorides 86,000 ppm) (solids 7% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7620/49/41/64. Drilling.

Core No. 2 7528-7587. Cut 59' - Rec 18'.

Details later.

NOV 20 1970

Mud: (SW) 9.5 x 30 (chlorides 97,500) (solids 6% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

8075/49/44/455. Drilling. Drld to 7796.

Ran DST No. 2 7490-7796. Immediate failure

Drld to 7826 and ran DST No. 3 7470-7826 - immediate
failure.

Bit #20 4JS 40,000# 42 RPM out at 7826. 239' in 19 hrs.

Bit #21 4JS, now drlg, 40,000# 42 RPM, 249' in 19 hrs.

Mud: 19.2 (SW) x 29. NOV 23 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

8247/49/45/172. Running DST No. 4 7880-8247.
Core No. 2. 7528-7587. Cut 59'. Rec'd 18'.
7528-7534 Dolo, gry, finely crystalline, micaceous
(10-20%), silty, tight.
7534-7539 Dolo, very finely crystalline, gry, less than
2% mica, no silt, occasional pyrite.
7539-7542 Dolo, dk gry-brn, very thinly laminated,
cryptocrystalline, banded yellow fluor
throughout, 5% mica, oil shale.
7542-7546 Dolo, lt gry-brn, cryptocrystalline, vague
laminations, cherty appearance.
Dk brn oil on broken surfaces throughout core; no evidence
of open fractures in formation, no porosity.
Bit #21 4JS out at 8247. 427' in 32½ hrs. T-3, B-4.
Mud: 9.3 x 29 (sal 90,000 ppm). NOV 2 4 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

8330/49/46/83. Drilling.
DST #4. 7880-8247. (Hookwall packer @ 7880).
Drilling water: Rw = 0.12 @ 70°F 15/16" choke in tool.
Op 10 min strong blow immed. Continued strong. No GTS.
SI 120 min.
Op 70 min strong blow immed. Continued strong for
45 min, then decreased. GTS 65 min. Blow nearly dead
in 70 min.
SI 300 min.
Recovery: 98 bbls SGC Drilling Water w/trace oil
(based on final flow pressure) Rw = 0.10 @ 68°F.
Sample Chamber: 0.75 cu. ft. gas @ 560 psi
2,000 cc's water Rw = 0.14 @ 66°F
250 cc's oil
IHP 3757, IFP 265 - 1098, LSIP 3401, FFP 1183-3382,
FSIP 3401, FHP 3738.
Max Temp 154°F.
Bit No. 22 3 JS in hole drlg - 83' in 7¼ hrs.
Bit weight 40,000#, 42 RPM. NOV 2 5 1970
Mud: 9.4 x 29 (sal 104,000).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9366/49/52/96. Pulling DST No. 8.
Three attempts were made to run DST No. 7 as follows:

<u>Interval</u>	<u>Remarks</u>
1. 8930-9270	Communication around pkrs through formation
2. 8915-9270	
3. 8900-9270	

(Could not go deeper due to bridge)
Bit #23 rerun SCM5 out at 9366. 432' in 25½ hrs.
T-2, B-4. 1/16 gauge. DEC 1 1970
Mud: 8.9 x 29 (sal 69,000)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9627/49/53/261. Drilling.
Attempts to run DST #8 as follows:

<u>DST #8</u>	
1. 9108-9366	Lost mud immediately
2. 9014-9366)
3. 9009-9366) Lost mud quickly
4. 8958-9366)

DEC 2 1970
Mud: 8.9 x 29 (sal 58,500)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/54/185. Logging. Ran DIL.
Bit #24 3JS out at 9812. 446' in 31½ hrs.
T-2, B-4. DEC 3 1970
Mud: 8.8 x 29 (sal 45,000)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/55/0. Logging.
On Run No. 5, logging tool was sticking near bottom.
Ran 8 5/8" bit and circ three hrs. DEC 4 1970
Mud: 8.8 x 29 (45,000 sal)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/58/0. Laying down drill pipe.
Completed logging 3:00 p.m. 12/6/70. Ran logs as
follows: Schlumberger; DIL/SP, Int BHCS/GR/Cal, FDC/GR/Cal,
SNP/GR/Cal, PL/ML, BHTV-B, TDT/GR, Shear Amplitude, Comp.
Amplitude/Variable Density.
Birdwell; 3-Dimensional Velocity Log
OWP; Seismic Velocity Survey, Wave Form Display.
Ran 8 5/8" bit. Circ @ 8,000, 9,000 & TD to clean
hole. 8.8#/gal SW remaining in hole. DEC 7 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test

TD 9812/49/59/0. MORT. Released rig 4 p.m. 12-7-70. DEC 8 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812/49/60/0. MORT. DEC 9 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. MORT. DEC 10 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. MORT. DEC 11 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Installing Christmas tree.

On 12/11/70, drilling rig equip moved from location at 11 a.m. Set anchor eye, set racks, etc. Unloaded 5 1/2" csg and 2 7/8" tbg.

On 12/12/70, MI&RU Ford Tool Company Rig. Tallied tbg and csg. SD overnight.

On 12/13/70, mixed 150 bbls fresh wtr with CaCl₂ to 9.0#/gal SW. No press on POP's. Filled hole with 8 bbls SW. Ran in 9 5/8" pkr on 8 jts 2 7/8" EUE tbg. Set pkr w/5000 psi valve on tbg. Stripped off Cameron 10" Series 1500 BOP's that were left on well by drilling contractor. Removed Cameron wear bushing and flange. Installed 5 1/2" hanger flange and Cameron BOP's w/2 7/8" tbg rams on top and 5 1/2" csg rams on bottom. Removed tbg valve. Released pkr. Ran prod equip as follows: Bkr 9 5/8" "R" dbl grip pkr, 1 jt 2 7/8" EUE N-80 tbg, seating nipple, 1 jt 2 7/8" EUE N-80 tbg, 3" ID x 9 5/8" OD full-bore hydraulic tbg anchor, 91 jts 2 7/8" EUE N-80 tbg, 2 7/8" EUE tbg x 5 1/2" csg swage, 1 jt 5 1/2" 14#/ft J-55 csg ST&C, Bkr 3.25 ID seal receptical sub, 1 - 4' 5 1/2" csg sub, 1 - 4' 5 1/2" csg sub w/4 1/2" hole on 90° in middle of sub, 123 jts 5 1/2" 14# csg, tbg tail @ 7013'. Top of pkr at 7003, seating nipple at 6970, Page tbg anchor at 6937, 2 7/8" x 5 1/2" swage at 4067, Bkr seal receptical at 4030. Csg circ perfs at 4024. Flanged 5 1/2" csg on donut w/15,000# set-down wt on pkr. Threads on top of donut partially stripped while removing landing nipple. Screwed into top of donut w/2 7/8 x 5 1/2" csg swage, and placed 5000# valve on top. Removed 10" DEC 14 1970 Series 1500 Cameron BOP's. Installed 6" Series 1500 tbg spool and Schaeffer hyd BOP's. Removed 2 7/8 x 5 1/2" swage. Ran in w/bkr anchor seal assembly on 127 jts 2 7/8" EUE N-80 tbg and 1 - 8' tbg sub, w/sub 2 jts down hole. Landed on donut w/seal assembly and latched in with 6000# set-down wt.

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Prep to open well to pit.
Installed 2 7/8" Type "H" Cameron backpress valve in top
of donut before landing tbg. Stripped off BOP's and
installed Cameron Series 1500 Christmas tree. Cleaned up
oil which was displaced from csg while running pipe into
hole. MI&RU hot oiler. Displaced SW in annuli w/fresh wtr.
Heated fresh wtr to 200°F and displaced at 1+ B/M. Circ heat
string w/200° wtr inlet and 160° outlet for 15 hrs. SITP 250.
DEC 15 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
On 12-15-70, opened well and TP bled to 0 in less than one
min. RU to swab and swabbed est 184 BF to pit in 8 hrs
(est 170 BSW and 14 BO). Last 3 hrs avg - 22 B/H,
FL 1300', SF 3000', 95% salt wtr. SI overnight at 5 p.m.
14-hr SITP as of 7 a.m. 12-16-70 - 325 psi. Opened well
to pit - TP bled to 0 in 1 min. FL at 900' DEC 16 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
Swabbed 525 bbls in last 24 hrs, 98% cut (wtr). Total
swabbed to date 709 bbl rec. Avg last 5 hrs 22 B/H,
98% cut (wtr). FL 1300'. Swabbed from 3300'. DEC 17 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
Swabbed 414 bbls in 24 hrs. Weather conditions and snow
slowing swabbing. (Total of 1123 bbls swabbed) Avg rate
last 4 hrs - 20 B/H, 95% wtr cut, FL 900', SF 3300'.
Est recovery to date - 45 BO and 1078 BSW. DEC 18 1970
Water sample caught yesterday - weight 9.0#/gal.

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing; MI equip to put on pump.
Swabbed 1307 bbls in last 72 hrs, FL steady at 900', SF 3300',
wtr cut varies from 95-99%. Sample of wtr caught each hr -
weight 8.9-9.0#/hr. Est total swabbed at 8 a.m. 12-21-70 -
2430 bbls (est 92 BO and 2338 BSW) DEC 21 1970
(R.D. until well tested on artificial lift)

Shell Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. WO equip to repair unit.
(RRD 12/21/70) On 12/31/70, MI&RU Colo. Well Service Co.
Ran rods and pump. Installed pumping unit. Well SITP
750 psi (10 days). Opened to pit and well flowed
intermittently for two hrs. RU to swab and swbd well
three hrs. FL dropped 1,000', SF 3,000'. Pumped 20 bbls
diesel down tbg. SI overnight.
On 1/1/71, opened well to pit and bled off approx 1 bbl.
Well died. Ran in w/1 3/4" pump and sucker rods,
seating nipple at 6970. Put on pump 5 p.m. 1/1/71.
Well pumped to pit at approx 7 B/H (99% wtr cut).
On 1/2/71, well pumping. Turned into tank battery at noon
1/2/71. Pumped at rate of 7 B/H SW. Fuel and mechanical
difficulties created. Considerable downtime. Est 200 BSW
pumped. (Total recovery including swab - 2960 bbls)
On 1/3/71, well pumped 24 hrs. Wtr meter would not handle
wtr, no gauge available. Not making sufficient oil to get
treater to dump. Est 250 BSW pumped (3210 total).
On 1/4/71, well pumped intermittently due to fuel problems.
Installed 2" wtr meter. Well pumped 20 BSW/H until every-
thing froze. Began pump again at midnight 1/4/71. Est
285 BSW pumped (3,495 BSW total).
On 1/5/71, well pumped 252 BSW in 15 hrs. Broke drive belt
on unit (total SW recovered - 3747 bbls). JAN 6 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. No report. JAN 7 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. WO equip to repair PU. Fixed belts.
Started unit; magneto failed. Well down 24 hrs. WO new
magneto; fixed engine trouble. Pumped 218 BSW in 14½ hrs
(total bbls rec'd - 3965 BSW). JAN 8 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. As of 1/8/71, recovered 410 bbls
hvy SW. (Total recovery 4375 bbls).
On 1/9/71, pumped 430 BSW. (Total recovery - 4805 BSW
w/trc of oil). Wtr wt - 9.1#/gal.
On 1/10/71, pumped 417 BSW w/trc of oil. JAN 11 1971
(Total recovery - 5,222 bbls).

Shell-Brotherson TD 9812. Pumping.
No. 1-14B4 On 1/11/71, pumped 5.43 BO and 472 BW in 24 hrs.
(D) Colo. Well Service Water wt 8.9#. (Total water produced as of this
10,250' Green River- morning at 7 a.m. = 5,694 bbls.) JAN 1 2 1971
Wasatch Test
9 5/8" Csg at 7100'

Shell-Brotherson TD 9812. Pumping. In 24 hrs, pumped 13.3 BO and
No. 1-14B4 481 BW. Wtr wt - 8.9#/gal.
(D) Colo. Well Service (Total wtr produced - 6175 bbls). JAN 1 3 1971
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

Shell-Brotherson TD 9812. Pumping. As of 7 a.m. 1/14/71, pumped 0 BO,
No. 1-14B4 449 BW in 24 hrs. Wtr weight - 8.9 #/gal. (Total wtr
(D) Colo. Well Service produced - 6624 bbls). JAN 1 4 1971
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

Shell-Brotherson TD 9812. Pumping. Produced 8½ BO and 442 BW in last
No. 1-14B4 24 hrs. Wtr wt 8.9 #/gal. (Total wtr recovered to date -
(D) Colo. Well Service 7,052 bbls.) JAN 1 5 1971
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

Shell-Brotherson TD 9812. Pumping.
No. 1-14B4 In last 24 hrs, pumped 11 BO and 438 BW (8.8#/gal)
(D) Colo. Well Service JAN 1 8 1971
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

Shell-Brotherson TD 9812. Pumping. JAN 1 9 1971
No. 1-14B4 In last 24 hrs, pumped 5.3 BO and 461 BW (wt. 8.9#/gal)
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

Shell-Brotherson TD 9812. Pumping.
No. 1-14B4 (Rates will be carried on a weekly basis hereafter) JAN 2 0 1971
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

Shell Brotherson
1-14B4
(D)
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. (RRD 1-20-71)
Avg weekly tests are as follows:

<u>BOPD</u>	<u>BWPD</u>	<u>Total Wtr Recovered to Date</u>
9	435	11,484

(RD until 2-2-71) JAN 27 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Prep to pull 5 1/2" csg circ string. (RRD 1/27/71).
MI&RU Ford Rig 2/1/71. Pulled and laid down rods and pump.
Pulled 4,000' 2 7/8" N-80 tbg and Bkr latching assembly.
FEB 2 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Prep to run WL to check TD.
Pulled prod equip. FEB 3 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. Circ; prep to cut back weight of SW
from 8.9 to 8.8. MI&RU Cable Well Service. Ran in hole
w/sinker bar and found PBTD 7333. Spudded 20' to 7353'
(solid bottom). RD Cable Well Service. Ran in hole
w/7 7/8" bit on 2 7/8" tbg. W/bit at 6840, circ oil and
gas out of csg. Circ for 2 hrs. FEB 4 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. CO OH w/reverse circ.
Circ for 30 mins in reverse. Pumped 8.9#/gal SW at
rate of 3 B/M. Pump press - 300 psi. Rate - 2 B/M. FEB 5 1971
Added fresh wtr to system to cut weight back. Began
washing down by reverse circ yesterday. Washed to 7320,
then hit bridge. Washed down 30' in 15 mins. Reverse
circ 15 min at rate of 3 B/M. Cut rate of SW w/fresh wtr.
Lost est 750 BSW by 6 p.m. Washed down to 8918' at 7 a.m.
2/5/71 w/hard bridges in OH at 7349-75, 7530-66, 8033-58,
& 8898-8903. Lost additional 400 BSW by 7 a.m. 2/5/71.
(1150 BSW lost). (Present weight - SW rates weight 8.7#/gal).

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. Shut down temporarily.
Washed down open hole to TD at 9812 in 12 hrs. Hard
bridges at the following intervals: 8980-9007, 9017-38,
9180-9217, 9322-50, 9370-85, 9624-52, 9750-9812. All
washed down with reverse circ. 11 bridges total and
reverse circ hole for 12 hrs. No indication of any sloughing.
Pulled tbg and bit to 7565 and hit tight spot. Worked tbg
and bit and circ for 2½ hrs. Returns had considerable
cuttings. Well circulated clean in next 1 hr. Small bridge
formed just below bit. Cleaned out 8' bridge. Pulled 18
jts 2 7/8" tbg and left bit at 7000' - 100' above csg shoe.
Ran back in hole w/7-7/8" bit on 2 7/8" tbg. Hit bridge at
7609-34. Washed out same. Hit second bridge at 7649. Pulled
bit back into 9 5/8" csg at 7,000'. FEB 8 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pulling tbg and bit.
SD until 4 p.m. 2/8/71. Pulled 2 7/8" tbg and 7 7/8" bit.
out of hole. Ran in w/8 3/4" bit on 2 7/8" tbg to 7100'.
Washed down OH to 7688, no hard bridges. Hit bridge at
7688 and held six points on indicator. Pulled up 1 jt, circ
one hr, and rechecked bridge w/6 points of weight. FEB 9 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Running prod equipment.
Ran in w/2 7/8" tbg with tail to 7654'. MI&RU Hal.
Pump 5 bbls SW to establish circ. Mixed 35 sx cmt, 1:1 poz,
and 10% NaCl. Displaced with 3½ BSW to equalize cmt in tbg
and open hole. Opened tbg and annulus. Cmt balanced. FEB 10 1971
Lost 5 bbls SW while mixing and displacing cmt. Pulled
14 jts tbg. Reverse circ for 30 mins. Pumped 90 bbls -
returns 83 bbls. Reversed out estimated ½ bbl cmt. Pull 4
jts tbg - tail at 7063'. WOC 8 hrs. Ran in 2 7/8" tbg and
tagged top of cmt plug at 7603', 85' of cmt. Pulled 2 7/8" tbg.

Shell-Brotherson
I-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Swabbing.
Ran in with Bkr 9 5/8" "R" dbl grip pkr, 2 jts 2 7/8" N-80
tbg and seating nipple on 2 7/8" tbg. Set pkr at 7031,
seating nipple at 6970. Landed tbg on donut. RU to swab.
Started swabbing at 2 p.m.; FL at sfc. Swabbed FL down
to 6500' in 5 hrs, 90% cut. Last 12 hrs - swabbed est 24
bbls fluid, 10% cut. Avg 2 B/H, FL 6500', SF seating nipple
at 6970'. FEB 11 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Swabbing. On 24-hr test, swabbed 36 BO, and 0 BW.
Avg - 1½ BO/H, FL 6500', SF seating nipple at 6970'. FEB 12 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Prep to clean up location for resumption of drlg.
Down 2 hrs repairing sand line. Swabbed 18 BO and no wtr in
7 hrs. Avg rate last 4 hrs - 1 1/2 BO/H, FL 6500', SF seating
nipple at 6970'. Filled tbg with SW. Released pkr. Pulled
and laid down tbg and pkr. Picked up sucker rods, broke out
and laid down in singles. CO mud pits. Released Ford rig
2 p.m. 2/14/71. FEB 16 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Removing pmpg unit, etc. in prep to MI rig for
deepening well. (RD until rig MI). FEB 17 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Drlg mouse hole; prep to test BOP's and chk
manifold. (RRD 2/17/71). FEB 23 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Picking up 3 1/2" alum DP.
MI&RU Barker Rig 2/22/71. Tested chk manifold to 5,000 psi
for 30 mins, held ok after several repairs. Tested BOP's
and hydril, had many leaks. Tested at 2,000 psi for 30 mins
held ok. Filled hole before starting in w/DP; took 50 BW.
FEB 24 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Cleaning out to plug. Ran 3 1/2" DP to top of fill
at 7423. Drld and washed to 7444. Tried to make connec-
tion but pipe stuck; worked free in 1/2 hr. Picked up DP,
cond SW, and cleaned hole. Drld and washed to 7595. Fill
very hard. Cond hole for six hrs.
Mud: 9.2 x 30 FEB 25 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Staging to bottom; cond mud.
Hit cmt plug at 7595; drld plug and washed to 8046.
Mud came out as fluffy foam - no body. Dumped same and
built new volume. Might have been oil contaminating cmt
below plug - depth now 8257. FEB 26 1971
Mud: 9 x 38.

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

9903/14/6/91. Drilling.
Mud: 9.4 x 45 x 8 MAR 1 1971

Shell-Brotherson 9930/14/7/27. Logging.
 No. 1-14B4 Mud: 9.4 x 46 x 8 (Oil trc). MAR 2 1971
 (D) Barker
 10,250' Green River-
 Wasatch Test
 9 5/8" Csg at 7100'

Shell-Brotherson 9930/14/8/0. Making short trip & cond hole to run liner.
 No. 1-14B4 Ran microsonic and attempted to run NML.
 (D) Barker Mud: 9.4 x 46 x 8. MAR 3 1971
 10,250' Green River-
 Wasatch Test
 9 5/8" Csg at 7100'

Shell-Brotherson 9930/14/9/0. Washing liner to bottom from 9914-9921.
 No. 1-14B4 Mud gradient - .483 MAR 4 1971
 (D) Barker Mud: 9.3 x 45
 10,250' Green River-
 Wasatch Test
 9 5/8" Csg at 7100'

Shell-Brotherson 9930/14/10/0. Nippling up and WOC.
 No. 1-14B4 Ran and cmt 3019' 7 5/8" 38.05# N-80 hydril FJ Liner at
 (D) Barker 9921' w/128 sx Class "G" cmt, 15% salt, 1% CFR-2, 2% HR-4,
 10,250' Green River- & 1/8# Nylon Fibers. Top of liner at 6879', center of pkr
 Wasatch Test at 6887, top of slips at 6891, float collar at 9917, shoe
 7 5/8" Liner at 9921' at 9921, 3 DW centralizers spaced @ 9913, 9873, & 9833.
 CIP 8:50 a.m. 2/4/71. MAR 5 1971

Shell-Brotherson 9987/14/13/57. Drilling.
 No. 1-14B4 At 11:30 a.m. 3/5/71, attempted to press test liner w/rig
 (D) Barker pump; would not hold. Had to pick up liner seat tool, run
 10,250' Green River- to bottom, and reseal pkr on liner. Picked up and tested to
 Wasatch Test 2,000 psi, held ok. Tested hydril line to 5,000 psi,
 9 5/8" csg at 7100' held ok. SLM 9967 = 9973 (made 6' correction)
 Mud gradient - .514 MAR 8 1971
 Mud: 9.9 x 39 x 5

Shell-Brotherson 10,022/14/14/35. Prep to core.
 No. 1-14B4 Mud: 10 x 35 MAR 9 1971
 (D) Barker
 10,250' Green River-
 Wasatch Test
 9 5/8" csg at 7100'

Shell-Brotherson 10,059/14/15/37. Circ gas out of SW.
 No. 1-14B4 Mud gradient - .504 MAR 10 1971
 (D) Barker Mud: 9.7 x 36 (Oil 2%)
 10,250' Green River-
 Wasatch Test
 9 5/8" csg at 7100'

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

10,071/14/16/12. Drilling.
Circ gas cut mud 10½ hrs, raised wt to 10.2 carrying 200 units
gas. Made short trip, circ bottoms up - no increase in gas.
Pulled out of hole w/core bbl. Went in hole w/bit. When
drilling bottoms up, mud was gas cut from 10.2 to 9.9 for
15 mins. Displaced 420 bbls mud w/10.2#/gal wtr while drlg.
Mud gradient - .530 MAR 11 1971
Mud: 10.2 x 36 (Oil 2%)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

10,150/14/17/79. Circ for logs.
Core No. 3 10,022-10,059. Cut and rec'd 37'.
10,022-10,048 Sh, dk gry, firm, calc
10,048-10,050 Sh, a.a., sli calc
10,050-10,054 Sh, dk gry, firm, calc, calcite lined
fracs, oil stained on frac faces, lt blue
nat fluor
10,054-10,059 Sh, a.a., very sli silty, no fractures
Note: Core badly broken.
Mud gradient - .530 MAR 12 1971
Mud: 10.2 x 29 (Oil Trc)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

10,150/14/20/0. Going in hole w/test tool for DST #10.
Pulled out of hole. RU Schl. Ran Int BHCS/GR/Cal. Hit
fill at 10,047. Went in hole w/bit. Washed and reamed
184' of fill. Circ hole clean. Added fresh wtr to mud.
Circ and cond mud for DST. Pulled out of hole. Tested
BOP's and chk manifold to 3,000 psi, held ok. Went in
hole with Johnston test tool. Set pkr at 9905.
DST #9 9921-10,150
(1) Pkr set @ 9905 in 7 5/8" liner
(2) 30' tail pipe
(3) 1600 ft (11 bbls) water cushion
Op 4 hrs 6 min Op w/wk blow, inc to strong blow in 1.5 min.
GTS 70 min (TSTM), continued throughout.

SI 9 hrs 8 min

Recovery: Reversed out:

11 bbls oil cut water cushion, 7 bbls gas cut
drilling fluid, and 40 bbls gas cut oil.

Sample Chamber: 1175 psig; 1600 cc oil (32.1° API @ 60°F);
4.6 cu ft gas

Pressures: Recorder @ 9913

IHP 5278, IFP 935, FFP 2100, FSI 4343, FHP 5240

Max Temperature = 173°F. MAR 15 1971

Mud: 10.1 x 29 (Oil trc)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

10,150/14/21/0. Running DST #10.
Went in hole w/test tool assembly. Set pkr at 9908.
Mud: 10.1 x 29 (Oil trc). MAR 16 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

10,150/14/22/0. Laying down DP in prep to temporarily abandon.
DST No. 10 9921-10,150

(1) Pkr set @ 9908 in 7 5/8" liner

(2) 30' tail pipe

(3) 1600' (11 bbls) water cushion

Op 8 hrs 33 min Op w/wk blow. Inc to strong in 2 min.

GTS 70 min. Max rate 6.0 MCFPD.

SI 24 hrs.

Recovery: Reversed out: 11 bbls gas and oil-cut water cushion
19 bbls gas-cut oil

Sample Chamber: 3.2 cu ft gas, 1925 cc's oil (32.2° API @ 60°F)
625 psi

Pressures: IHP 5157, IFP 874, FFP 2458, FSIP 4600, FHP 5183.

Max temperature: 180°F.

Set Model "C₁" ret BP at 6800.

Mud: 10.1 x 29 (Oil trc) MAR 17 1971

(Disc until further activity)

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

10,150/14/23/0. Temporarily abandoned.

Laid down DP. Nippled down BOP's and chk manifold.

Nippled up wellhead. Rig released 12 midnight 3/17/71.

(Disc until further activity). MAR 18 1971

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

Patented

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Brotherson

9. WELL NO.

1-14B4

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

SE/4 NE/4 Section 14-T 2S-R 4W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

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 Mountain Division Production)

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface 2100' FNL and 750' FEL Sec 14
 At top prod. interval reported below
 At total depth

14. PERMIT NO. 43-013-30051 DATE ISSUED 4-12-72

15. DATE SPUNDED 10-10-70 16. DATE T.D. REACHED 1st TD-12-2-70 2nd TD-6-5-72 17. DATE COMPL. (Ready to prod.) 1st comp date-12-15-70 2nd comp date-7-24-72 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6121 GL, 6141 KB 19. ELEV. CASINGHEAD 20'

20. TOTAL DEPTH, MD & TVD 13,000 21. PLUG, BACK T.D., MD & TVD 12,998 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY → Total 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* GR-Wasatch 10,309-12,919 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/SP, Int BHGS/GR/Cal, FDC/GR/Cal, SNP/GR/Cal, PL/ML, BHTV-B, TDT/GR, Shear Amplitude/Var Density, Birdwell 3-D Velocity, Wave Form Display, CNL, GRN, I-ES/Cal/Sonic 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	310'	17 1/2"	400 SX	0
9 5/8"	40#	7100'	12 1/4"	350 SX	0
7 5/8"	33.7#	6911'	"	100 SX	0

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7 5/8"	6879	9921	128				
5 1/2"	9657	11,905	400				

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Interval	Size	Number		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3 1/2"	11,868	12,998	Hung		
As per attachments					

33.* PRODUCTION							
DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)		
7-24-72	Flowing				Producing		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9-9-72	24	21/64"	→	2073	3501	0	1700
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
3420	0	→	2073 ✓	3501	0	44.2° API	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel and flared TEST WITNESSED BY

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

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

SIGNED K.R. Jordan TITLE Division Operations Engineer DATE October 11, 1972

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

INSTRUCTIONS

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

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

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

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

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

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

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

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

P-W

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test

7-5/8" liner @ 9921'

5-1/2" liner @ 11,905'

3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. (RRD 7/5/72). Perforating.
TP 3200 psi, 7 AM, 7/21. MI&RU Schl on 7/20. TP 2200
psi. Bled tbg to zero. Perf'd following in three runs
w/1 hole each w/Hyperjet tbg steel carrier gun. 1st run:
10,309, 10,318, 10,436, 10,440, 10,446, 10,579. Press
800 to 2250 psi. 2nd run: 10,598, 10,611, 10,623,
10,662, 10,667, 10,687, 10,706, 10,730, 10,736, 10,768,
10,897, 10,908, 10,918, 10,930, 10,975. Press 2900
throughout. 3rd run: 10,982. Press 3000 psi. WL
snorted out. JUL 21 1972

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test

7-5/8" liner @ 9921'

5-1/2" liner @ 11,905'

3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. 7/22: Prep to treat. TP 3500 psi.
Perf'd one hole @ 12,919 w/Hyperjet and 1-9/16" steel
carrier gun. Perf'd one hole each w/Hyperjet and tbg
steel carrier gun @ 11,044, 11,082, 11,090, 11,135,
11,152, 11,160, 11,184, 11,275, 11,311, 11,420, 11,432,
11,441, 11,492, 11,496, 11,529, 11,593, 11,665, 11,685
11,699, 11,718, 11,835, 11,851. TP at start 3300 psi
w/3400 psi at end. RD Schl.

7/23: Prep to flow. TP 3750 psi. RU Hal and AT gross
perfs 10,309 to 12,919 w/20,000 gal 15% HCl w/ninety
7/8" ball sealers (1.4 gravity) distributed throughout
acid. Each 1000 gal acid contained 20# WG-6, 3 gal
HAI-50, 3 gal HC-2, 3 gal 3-N and 40# OS-160 Wide Range
Unibeads and 40# OS-160 Button Unibeads. With 520#
Unibeads in 6500 gal HCl and 47 balls in fm, balled out
@ 10,000 psi. SI 12 min. Pumped remainder of acid and
balls. Max press 10,000 psi, min 6600 psi, avg 8200 psi.
Max rate 13 B/M, min 9 B/M, avg 11 B/M. ISIP 3600 psi,
decr to 3400 psi in 5 min, to 3350 psi in 15 min, rem @
3350 psi in 4 hrs. Flushed w/4400 gal FW containing
20# WG-6/1000 gal. RU WL truck. Ran to 3 1/2" liner
top - unable to enter liner w/1-29/32" tool tapered
on btm.

7/24: Prep to check liner top. TP 3320 psi. Opened
well to pit @ 9:30 AM. TP 3750 psi. Flowed 15 min
on 48/64" chk w/2300 psi TP. SITP 4400 psi. Opened
well to pit for 1 hr on various chks. TP 2175 psi.
SI w/4520 psi. Est oil 75 bbls. RU Hal. Pmpd 30 bbls
diesel down tbg. JUL 24 1972

SHELL OIL COMPANY
PRODUCTION LABORATORY WATER ANALYSIS REPORT
DENVER, COLORADO

FROM: - PRODUCTION LABORATORY
 DENVER, COLORADO

LABORATORY NUMBER 4903-6
 SAMPLE TAKEN _____
 SAMPLE RECEIVED December 23, 1970
 RESULTS REPORTED December 30, 1970

TO: _____

SEC-14-25-4N

SAMPLE DESCRIPTION _____ FIELD NO. _____
 COMPANY Shell Oil Co. LEASE Brotherson WELL NO. 1-14B-4
 SEC. _____ TWP. _____ RGE. _____ SUR. _____
 DISTRICT _____ FIELD _____ COUNTY Duchesne STATE Utah
 SAMPLE TAKEN FROM Upper Wasatch
 PRODUCING FORMATION Green River TOP 7100 - 9812
 REMARKS 1252 bbls. swabbed (unable to read date)

SAMPLE TAKEN BY J.M. Manning

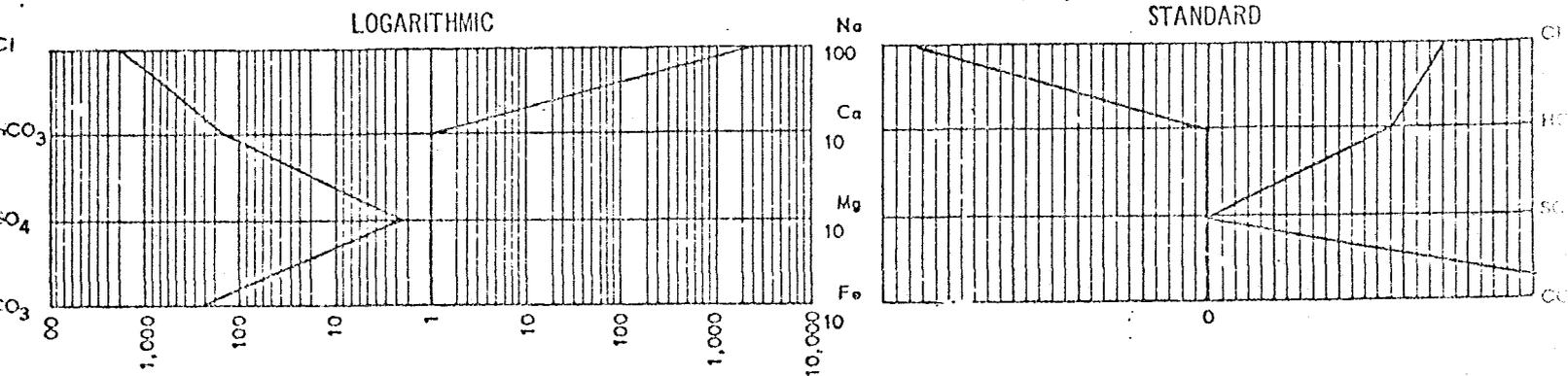
CHEMICAL AND PHYSICAL PROPERTIES

SPECIFIC GRAVITY @60/60° F. 1.093 pH 9.1 RES. 0.079 OHM METERS @ 77° F

TOTAL HARDNESS Mg/L as CaCO₃ 48 TOTAL ALKALINITY Mg/L as CaCO₃ 21,788

CONSTITUENT	MILLIGRAMS PER LITER Mg/L.	MILLEQUIVALENTS PER LITER MEQ/L.	REMARKS
CALCIUM - Ca ++	6	0.30	
MAGNESIUM - Mg ++	8	0.66	
SODIUM - Na +	51,416	2236.60	
BARIUM (INCL. STRONTIUM) - Ba ++	0	-	
TOTAL IRON - Fe ++ AND Fe +++	Absent	-	
BICARBONATE - HCO ₃ ⁻	8540	140.06	
CARBONATE - CO ₃ ⁻⁻	8880	295.70	
SULFATE - SO ₄ ⁻⁻	127	2.64	
CHLORIDE - CL ⁻	63,800	1799.16	
TOTAL DISSOLVED SOLIDS	132,777	4475.12	

←----- MILLEQUIVALENTS PER LITER -----→



() AREA OFFICE () DISTRICT OFFICE
 () EXPLORATION MANAGER () DISTRICT GEOLOGIST ANALYST R.B.C.
 () DIVISION OFFICE () SHELL DEVELOPMENT - EPR
 () DIVISION EXPL. MANAGER CHECKED C.E.D.

OIL WELL
SHELL OIL COMPANY

FROM: 10-8-70 - 9-19-72

LEASE BROTHERTON WELL NO. 1-14B4
DIVISION ROCKY MOUNTAIN ELEV 6141 KB
COUNTY DUCHESNE STATE UTAH

ALTAMONT
OCT 0 6 1972

UTAH

ALTAMONT

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

"FR" RURT.
Located 2100' FNL and 750' FEL
Section 14-T2S-R4W, Duchesne County, Utah
Elev: 6121 GL (Ungraded)
10,250' Green River-Wasatch Test
Shell Working Interest - 100%
Drilling Contractor - Loffland Drlg Company
This well is designed to evaluate and develop Middle Green
River reservoirs indicated in Miles #1-35A4 and Brotherson
#1-23B4. OCT 8 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

RURT. OCT 9 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

310/49/2/310. Nippling up. Spudded 10 a.m. 10/10/70.
Drld 17½" hole to 310'. Ran and cmt'd 8 jts 13 3/8" 54.5#
K-55 csg at 310' w/400 sx Class "G" cmt, 3% CaCl₂. Displaced
plug to 280'. OCT 12 1970
Mud: 9.4 x 37 x 9.3 (sal 320) (plastic vis 10) (yield point 5).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

310/49/3/0. Nippling up. OCT 13 1970

Shell Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

310/49/4/0. Drlg cmt at 270'. Nippled up and press tested
BOP's to 1500 psi. OCT 14 1970
Mud: Water.

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch

1350/49/5/1040. Drilling.
Mud: Native. OCT 15 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

1990/49/6/640. Drilling. Dev: ¼" @ 1491'.
Tight hole from 887-949 on trip for Bit #5.
Washed and reamed 180' from 1311-1491 on trip.
Mud: Native. OCT 16 1970

Shell-Brotherson 3641/49/9/1651. Tripping for new bit. Dev: 0° @ 3263.
 No. 1-14B4 Mud: Water. OCT 1 9 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4047/49/10/406. Drilling. Dev: 1/4° @ 3641.
 No. 1-14B4 Mud: Native. OCT 1 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4455/49/11/408. Drilling. Dev: 1/4° @ 4061.
 No. 1-14B4 Mud: Native. OCT 2 1 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4762/49/12/307. Tripping. Dev: 1/4° @ 4482.
 No. 1-14B4 Mud: Native. OCT 2 2 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 4916/49/13/154. Drilling. Dev: 1/2° @ 4762.
 No. 1-14B4 Mud: Native. OCT 2 3 1970
 (D) Loffland
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 5490/49/16/574. Attempting to back off collars at 4851.
 No. 1-14B4 Stuck DP on 10/25/70. Bit at 5270. Ran s/c jars and did
 (D) Loffland not work. Ran freepoint (3 shots) at 5177. Collars failed to
 10,250' Green River- break. 1 shot at 4942 & 4980 also failed.
 Wasatch Test Mud: Native. OCT 2 6 1970

Shell-Brotherson 5490/49/17/0. Cleaning out bridges to top of fish.
 No. 1-14B4 Retrieved top collar and backed off at 4851. Down 1 1/2 hrs
 (D) Loffland water and fuel lines. OCT 2 7 1970
 10,250' Green River- Mud: 9 x 40 x 11.1 (plastic vis 10) (yield point 2).
 Wasatch Test

Shell-Brotherson 5490/49/18/0. Washing to top of fish and cond hole.
 No. 1-14B4 DP backlashed and unscrewed at 1,000'. Retrieved w/8 3/8"
 (D) Loffland Bowen overshot.
 10,250' Green River- Mud: 9 x 43 x 11.1 (salt 430) (plastic vis 10) (yield
 Wasatch Test point 8). OCT 2 8 1970

Shell Brotherson 5490/49/19/0. Conditioning hole to go in w/jars.
 No. 1-14B4 Made 15 washing runs tied at 4710.
 (D) Loffland Mud: 9.1 x 51 x 8.1 (salt 440) (plastic vis 14)
 10,250' Green River- (yield point 10). OCT 2 9 1970
 Wasatch Test

Shell-Brotherson 5490/49/20/0. Going in hole w/bit. Dev: 1 3/4° @ 5490.
 No. 1-14B4 Ran in w/17 collars, LI jars, Bowen jars, one collar on
 (D) Loffland bottom. Retrieved all of fish 429'. OCT 30 1970
 10,250' Green River- Mud: 9.1 x 58 x 8.1 (plastic vis 14) (yield point 10).
 Wasatch Test

Shell-Brotherson 6036/49/23/546. Drilling.
 No. 1-14B4 Mud: 9.1 x 40 x 7.2 (sal 540) (plastic vis 12)
 (D) Loffland (yield point 1). NOV 2 1970
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 6202/49/24/166 Drilling.
 No. 1-14B4 Mud: 9.1 x 41 x 6.9 (Sal 550) (plastic visc 14)
 (D) Loffland (yield point 4) NOV 3 1970
 10,250' Green River
 Wasatch Test

Shell-Brotherson 6338/49/25/136. Drilling. Dev: 1° @ 6254.
 No. 1-14B4 Bit #14 12 1/4" Smith 4JS. Made 764' in 9 1/2 hrs.
 (D) Loffland Mud: 9.3 x 41 x 6.3 (sal 540) (plastic vis 15)
 10,250' Green River- (yield point 3). NOV 4 1970
 Wasatch Test

Shell-Brotherson 6500/49/26/162. Prep to run logs. Dev: 1° @ 6500.
 No. 1-14B4 Drld to 6500. Made short trip, 8 stands, circ and cond
 (D) Loffland mud for logs. NOV 5 1970
 10,250' Green River- Mud: 9.2 x 50 x 7.5 (sal 540) (plastic vis 16) (yield point 2)
 Wasatch Test

Shell-Brotherson 6602/49/27/102. Drilling. Logs stopped at 6424. Ran
 No. 1-14B4 drlg assembly. CO bridge 6424-6434. Raised visc of mud.
 (D) Loffland Started out of hole for logs - changed orders.
 10,250' Green River- Mud: 9.2 x 49 x 7.5 (sal 570) (plastic vis 19)
 Wasatch Test (yield point 7). NOV 6 1970

Shell-Brotherson 7053/49/30/451. Drilling. Dev: 1 1/4° @ 6900'.
 No. 1-14B4 Mud: 9.3 x 51 x 6 (sal 570) (plastic vis 22) (yield point 3).
 (D) Loffland NOV 9 1970
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 7100/49/31/47. Logging. Dev: 1 1/4° @ 7100.
 No. 1-14B4 Mud: 9.4 x 59 x 6 (sal 570) (plastic vis 22)
 (D) Loffland (yield point 8). NOV 10 1970
 10,250' Green River-
 Wasatch Test

Shell-Brotherson 7100/49/32/0. Nipling up 9 5/8" csg.
 No. 1-14B4 Ran logs as follows: DIL/SP, Int BHCS/GR/Cal.
 (D) Loffland Ran drlg assembly w/bottom hole reamed. Circ and
 10,250' Green River- cond mud. Pulled and laid down 9" DC's. Ran and cut
 Wasatch Test 170 jts 9 5/8" 40# S-95 csg at 7100' w/200 sx 1:1 NOV 11 1970
 poz and 150 sx Class "G". Cmt in place 4:30 a.m.
 Mud: 9.4 x 80 x 6 (sal 580) (plastic vis 43) (yield point 32).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

7100/49/33/0. Nippling up 9 5/8" csg. NOV 1 2 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7100/49/34/0. Changing to SW. Press tested
all BOP's. Ran in w/drlg assembly. Rubber protectors
on DP. Drilled plugs, float collar, and cmt to 7100'.
Cleaning pits. NOV 1 3 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

7493/49/37/393. Running DST No. 1.
Dev: 1 1/2° @ 7278, 1 3/4° @ 7493.
Mixed SW to 9.3#/gal. Displaced mud in hole.
Drlg to 7493. Began running DST. NOV 1 6 1970
Mud: 9.3 (SW) x 47 (84,000 ppm) (solids 5%).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7500/49/38/7. Tripping in w/core bbl.
DST No. 1 7100 (Btm of csg)-7493)
Btm of pkr in csg at 7086
3/4" chk in test tool
Drlg wtr: Rw=0.109 @ 79°F
Op 10 min, strong blow immed. Increased to very
strong. No GTS. SI 90 min.
Op 120 min, strong blow immediately. GTS in 25 min.
Max rate in 30 min = 2 MCF/D. Blow decreased
until nearly dead at end of flow period. SI 406 min.
Recovery
Reversed out following SI w/pkr still set in csg.
17 bbls dk brn oil
7 bbls oil-water emulsion
Rw = 0.084 @ 84°F
(will report sample chamber recovery later)
Press's: (Recorder at 7117)
IHP 3383, IFP 292-298, ISIP 2910, FFP 377-867,
FSIP 2397, FHP 3367.
BHT - 130°F
Ran rerun bit and drld to 7500. Pulled out to pick up
core barrel. NOV 1 7 1970
Mud: (SW) 9.3 x 28 (chlorides 90,000) (solids 7% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7527/49/39/27 Making trip; going in hole.
DST No. 1 7100-7493. (Addition to yesterday's wire)

Sample chamber contained:
1429 cc's oil (28° API)
27.6 CF gas @ 1200 psig
360 cc's wtr (Rw = 0.12 @ 61° F)
(est to be drlg wtr)
(111 cc's emulsion)

Core No. 1 7500-7527 Cut 27'. Rec 14'.
(DK brn oil on sfc of all of core)

7500-7513.5 Dolomitic silt, 50% silt grains,
40% primary dolomite, 10% mica,
(muscovite & biotite), tight, no
cut or fluorescence.
Occasional, organic material, est
1% red garnet.

7513.5-7514 Ss, med grain, calcite cement, well sorted, well
cemented, 5% dk minerals, 5% mica, tight, N.S.

7514-7527 No recovery

Vertical parting through entire core. No evidence to indicate
parting was on in-place fracture. No additional fractures.
Core bbl twisted off below top stabilizer; left outer bbl &
diamond corehead in hole. Rec'd same w/Bowen overshot. Ran drlg
assembly to clean up hole. NOV 18 1970

Mud: (SW) 9.2 x 30 (82,000 chlorides) (solids 6% salt)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

7556/49/40/29. Cutting Core No. 2.
Drilled from 7527-7528 w/drlg assembly. Began coring
Core #2 @ 7528. NOV 19 1970
Mud: 9.2 x 29 (chlorides 86,000 ppm) (solids 7% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

7620/49/41/64. Drilling.
Core No. 2 7528-7587. Cut 59' - Rec 18'. NOV 20 1970
Details later.
Mud: (SW) 9.5 x 30 (chlorides 97,500) (solids 6% salt).

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

8075/49/44/455. Drilling. Drld to 7796.
Ran DST No. 2 7490-7796. Immediate failure
Drld to 7826 and ran DST No. 3 7470-7826 - immediate
failure.
Bit #20 4JS 40,000# 42 RPM out at 7826. 239' in 19 hrs.
Bit #21 4JS, new drlg, 40,000# 42 RPM, 249' in 19 hrs
Mud: 19.2 (SW) x 29. NOV 23 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

8247/49/45/172. Running DST No. 4 7880-8247.
Core No. 2. 7528-7587. Cut 59'. Rec'd 18'.
7528-7534 Dolo, gry, finely crystalline, micaceous
(10-20%), silty, tight.
7534-7539 Dolo, very finely crystalline, gry, less than
2% mica, no silt, occasional pyrite.
7539-7542 Dolo, dk gry-brn, very thinly laminated,
cryptocrystalline, banded yellow fluor
throughout, 5% mica, oil shale.
7542-7546 Dolo, lt gry-brn, cryptocrystalline, vague
laminations, cherty appearance.
Dk brn oil on broken surfaces throughout core; no evidence
of open fractures in formation, no porosity.
Bit #21 4JS out at 8247. 427' in 32½ hrs. T-3, B-4.
Mud: 9.3 x 29 (sal 90,000 ppm). NOV 24 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

8330/49/46/83. Drilling.
DST #4. 7880-8247. (Hookwall packer @ 7880).
Drilling water: Rw = 0.12 @ 70°F 15/16" choke in tool.
Op 10 min strong blow immed. Continued strong. No GTS.
SI 120 min.
Op 70 min strong blow immed. Continued strong for
45 min, then decreased. GTS 65 min. Blow nearly dead
in 70 min.
SI 300 min.
Recovery: 98 bbls SGC Drilling Water w/trace oil
(based on final flow pressure) Rw = 0.10 @ 68°F.
Sample Chamber: 0.75 cu. ft. gas @ 560 psi
2,000 cc's water Rw = 0.14 @ 66°F
250 cc's oil
IHP 3757, IFP 265 - 1098, ISIP 3401, FFP 1183-3382,
FSIP 3401, PHP 3738.
Max Temp 154°F.
Bit No. 22 3 JS in hole drlg - 83' in 7¼ hrs.
Bit weight 40,000#, 42 RPM. NOV 25 1970
Mud: 9.4 x 29 (sal 104,000).

Shell-Brothersen
No. 1-14B4
(D) Loffland
10,250' Green River
Wasatch Test

9270/49/51/940. Pulling test tools.

DST #5 8227-8572 (345')

Johnston hookwall packer. 5' of perforations and opened
@ 8251. 15/16" choke in tool.

Drilling water: (Rw = 0.06 @ 66°F)

Op 10 min. Op w/weak blow (6" H₂O) and increased to strong
blow (15" H₂O) in 5 min. Continued to increase
steadily. No GTS.

SI 90 min

Op 135 min. Op w/weak blow (4" H₂O) and increased to strong
blow (15" H₂O) in 4 min. Max and final air rate
= 5.1 MCF/D. No GTS.

SI 300 min

Recovery

Based on final flow pressure: (3820') 47 bbls drilling water
(Rw = 0.06 @ 66°F) 0.5 bbls oil (34° API @ 108°F.)

Sample Chamber: (Set @ 8191)

1.45 cu. ft. gas @ 1200 psi

1980 cc Drilling water w/trace oil (Rw = .09 @ 60°F) 200 cc's oil.

Pressures: Recorder @ 8199.

IHP 3953, IFF 114-420, ISIP 3517, FFP 503-1867, FSIP 3508,

FFP 3953. Max Temp = 156°F.

DST No. 6 8565-8934. (369')

Johnston hookwall packer. 15/16" choke in tool.

Op 10 min Op w/weak blow (3" H₂O) and increased to
strong blow (15" H₂O) in 2 min. Very strong
blow @ end of flow period.

SI 90 min.

Op 120 min Op w/strong blow (15" H₂O). GTS in 25 min.
Max rate in 40 min = 144 MCF/D.
Final rate = 108 MCF/D.

SI 300 min.

Recovery:

Based on final flow pressure:

10 bbls gas cut oil (29° API @ 60°F.)

26 bbls gas cut drilling water

Sample Chamber:

0.41 cu. ft. gas @ 86 psi.

525 cc's oil

725 cc's drilling water (Rw = 0.10 @ 70°F)

Pressures: Recorder @ 8739.

IHP 4106, IFF 228-499, ISIP 3628, FFP 518-1314,

FSIP 3619, FFP 4097. Max temp = 160°F.

DST No. 7. Merun.

(Communication ground pkrs)

Bit #22 SJS - 687' in 41½ hrs. T-7, B-5.

Bit #23 SCMS - 335' in 19½ hrs. NOV 3 @ 1970

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9366/49/52/96. Pulling DST No. 8.
Three attempts were made to run DST No. 7 as follows:

<u>Interval</u>	<u>Remarks</u>
1. 8930-9270	Communication around pkrs through formation
2. 8915-9270	
3. 8900-9270	

(Could not go deeper due to bridge)
Bit #23 rerun SCMS out at 9366. 432' in 25½ hrs.
T-2, B-4. 1/16 gauge. DEC 1 1970
Mud: 8.9 x 29 (sal 69,000)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9627/49/53/261. Drilling.
Attempts to run DST #8 as follows:
DST #8 1. 9108-9366 Lost mud immediately
2. 9014-9366)
3. 9009-9366) Lost mud quickly
4. 8958-9366) DEC 2 1970
Mud: 8.9 x 29 (sal 58,500)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/54/185. Logging. Ran DIL.
Bit #24 3JS out at 9812. 446' in 31½ hrs.
T-2, B-4. DEC 3 1970
Mud: 8.8 x 29 (sal 45,000)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/55/0. Logging.
On Run No. 5, logging tool was sticking near bottom.
Ran 8 5/8" bit and circ three hrs. DEC 1 1970
Mud: 8.8 x 29 (45,000 sal)

Shell-Brotherson
No. 1-14B4
(D) Loffland
10,250' Green River-
Wasatch Test

9812/49/56/0. Laying down drill pipe.
Completed logging 3:00 p.m. 12/6/70. Ran logs as
follows: Schlumberger; DIL/SP, Int BHCS/GR/Cal, FDC/GR/Cal,
SNP/GR/Cal, PL/ML, BHTV-B, TDT/GR, Shear Amplitude, Comp.
Amplitude/Variable Density.
Birdwell; 3-Dimensional Velocity Log
OWP; Seismic Velocity Survey, Wave Form Display.
Ran 8 5/8" bit. Circ @ 2,000, 9,000 & TD to clean
hole. 8.8#/gal SW remaining in hole. DEC 7 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test

TD 9812/49/59/0. MORT. Released rig 4 p.m. 12-7-70. DEC 8 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812/49/60/0. MORT. DEC 8 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. MONT. DEC 10 1970

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. MONT. DEC 11 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Installing Christmas tree.
On 12/11/70, drilling rig equip moved from location at 11 a.m.
Set anchor eye, set racks, etc. Unloaded 5 1/2" csg and
2 7/8" tbg.
On 12/12/70, MI&RU Ford Tool Company Rig. Tallied tbg and
csg. SD overnight.
On 12/13/70, mixed 150 bbls fresh wtr with CaCl₂ to 9.0#/gal
SW. No press on BOP's. Filled hole with 8 bbls SW. Ran
in 9 5/8" pkr on 8 jts 2 7/8" EUE tbg. Set pkr w/5000 psi
valve on tbg. Stripped off Cameron 10" Series 1500 BOP's
that were left on well by drilling contractor. Removed
Cameron wear bushing and flange. Installed 5 1/2" hanger
flange and Cameron BOP's w/2 7/8" tbg rams on top and 5 1/2"
csg rams on bottom. Removed tbg valve. Released pkr.
Ran prod equip as follows: Bkr 9 5/8" "R" dbl grip pkr,
1 jt 2 7/8" EUE N-80 tbg, seating nipple, 1 jt 2 7/8"
EUE N-80 tbg, 3" ID x 9 5/8" OD full-bore hydraulic tbg
anchor, 91 jts 2 7/8" EUE N-80 tbg, 2 7/8" EUE tbg x 5 1/2"
csg swage, 1 jt 5 1/2" 14#/ft J-55 csg ST&C, Bkr 3.25 ID
seal receptical sub, 1 - 4' 5 1/2" csg sub, 1 - 4' 5 1/2" csg
sub w/4 1/2" hole on 90° in middle of sub, 123 jts 5 1/2" 14#
csg, tbg tail @ 7013'. Top of pkr at 7003, seating nipple
at 6970, Page tbg anchor at 6937, 2 7/8" x 5 1/2" swage at
4067, Bkr seal receptical at 4030. Csg circ perms at 4024.
Flanged 5 1/2" csg on donut w/15,000# set-down wt on pkr.
Threads on top of donut partially stripped while removing
landing nipple. Screwed into top of donut w/2 7/8" x 5 1/2"
csg swage, and placed 5000# valve on top. Removed 10" DEC 14 1970
Series 1500 Cameron BOP's. Installed 6" Series 1500 tbg
spool and Schaeffer hyd BOP's. Removed 2 7/8" x 5 1/2" swage.
Ran in w/Bkr anchor seal assembly on 127 jts 2 7/8" EUE
N-80 tbg and 1 - 8' tbg sub, w/sub 2 jts down hole. Landed
on donut w/seal assembly and latched in with 6000# set-down
wt.

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Prep to open well to pit.
Installed 2 7/8" Type "H" Cameron backpress valve in top
of donut before landing tbg. Stripped off BOP's and
installed Cameron Series 1500 Christmas tree. Cleaned up
oil which was displaced from csg while running pipe into
hole. MI&RU hot oiler. Displaced SW in annuli w/fresh wtr.
Heated fresh wtr to 200°F and displaced at 1+ B/M. Circ heat
string w/200° wtr inlet and 160° outlet for 15 hrs. SITP 250.
DEC 15 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
On 12-15-70, opened well and TP bled to 0 in less than one
min. RU to swab and swabbed est 184 BF to pit in 8 hrs
(est 170 BSW and 14 BO). Last 3 hrs avg - 22 B/H,
FL 1300', SF 3000', 95% salt wtr. SI overnight at 5 p.m.
14-hr SITP as of 7 a.m. 12-16-70 - 325 psi. Opened well
to pit - TP bled to 0 in 1 min. FL at 900' DEC 16 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
Swabbed 525 bbls in last 24 hrs, 98% cut (wtr). Total
swabbed to date 709 bbl rec. Avg last 5 hrs 22 B/H,
98% cut (wtr). FL 1300'. Swabbed from 3300'. DEC 17 1970

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing.
Swabbed 414 bbls in 24 hrs. Weather conditions and snow
slowing swabbing. (Total of 1123 bbls swabbed) Avg rate
last 4 hrs - 20 B/H, 95% wtr cut, FL 900', SF 3300'.
Est recovery to date - 45 BO and 1078 BSW. DEC 18 1970
Water sample caught yesterday - weight 9.0#/gal.

Shell-Brotherson
No. 1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Swabbing; MI equip to put on pump.
Swabbed 1307 bbls in last 72 hrs, FL steady at 900', SF 3300',
wtr cut varies from 95-99%. Sample of wtr caught each hr -
weight 8.9-9.0#/hr. Est total swabbed at 8 a.m. 12-21-70 -
2430 bbls (est 92 BO and 2338 BSW) DEC 21 1970
(R.D. until well tested on artificial lift)

Shell Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. WO equip to repair unit.
(RND 12/21/70) On 12/31/70, MI&RU Colo. Well Service Co.
Ran rods and pump. Installed pumping unit. Well SITF
750 psi (10 days). Opened to pit and well flowed
intermittently for two hrs. RU to swab and swbd well
three hrs. PL dropped 1,000', SF 3,000'. Pumped 20 bbls
diesel down tbg. SI overnight.

On 1/1/71, opened well to pit and bled off approx 1 bbl.
Well died. Ran in w/1 3/4" pump and sucker rods,
seating nipple at 6970. Put on pump 5 p.m. 1/1/71.
Well pumped to pit at approx 7 B/H (99% wtr cut).

On 1/2/71, well pumping. Turned into tank battery at noon
1/2/71. Pumped at rate of 7 B/H SW. Fuel and mechanical
difficulties created. Considerable downtime. Est 200 BSW
pumped. (Total recovery including swab - 2960 bbls)

On 1/3/71, well pumped 24 hrs. Wtr meter would not handle
wtr, no gauge available. Not making sufficient oil to get
treater to dump. Est 250 BSW pumped (3210 total).

On 1/4/71, well pumped intermittently due to fuel problems.
Installed 2" wtr meter. Well pumped 20 BSW/H until every-
thing froze. Began pump again at midnight 1/4/71. Est
285 BSW pumped (3,495 BSW total).

On 1/5/71, well pumped 252 BSW in 15 hrs. Broke drive belt
on unit (total SW recovered - 3747 bbls). JAN 6 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. No report. JAN 7 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. WO equip to repair PU. Fixed belts.
Started unit; magneto failed. Well down 24 hrs. WO new
magneto; fixed engine trouble. Pumped 218 BSW in 14½ hrs
(total bbls rec'd - 3965 BSW). JAN 8 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. As of 1/8/71, recovered 410 bbls
hvy SW. (Total recovery 4375 bbls).
On 1/9/71, pumped 430 BSW. (Total recovery - 4805 BSW
w/trc of oil). Wtr wt - 9.1#/gal.
On 1/10/71, pumped 417 BSW w/trc of oil. JAN 11 1971
(Total recovery - 5,222 bbls).

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping.
On 1/11/71, pumped 5.43 BO and 472 BW in 24 hrs.
Water wt 8.9#. (Total water produced as of this
morning at 7 a.m. = 5,694 bbls.) JAN 12 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100

TD 9812. Pumping. In 24 hrs, pumped 13.3 BO and
481 BW. Wtr wt - 8.9#/gal.
(Total wtr produced - 6175 bbls). JAN 13 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. As of 7 a.m. 1/14/71, pumped 0 BO,
449 BW in 24 hrs. Wtr weight - 8.9 #/gal. (Total wtr
produced - 6624 bbls). JAN 14 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. Produced 8½ BO and 442 BW in last
24 hrs. Wtr wt 8.9 #/gal. (Total wtr recovered to date -
7,052 bbls.) JAN 15 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Pumping.
In last 24 hrs, pumped 11 BO and 438 BW (8.8#/gal)
JAN 18 1971

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Pumping. JAN 19 1971
In last 24 hrs, pumped 5.3 BO and 461 BW (wt. 8.9#/gal)

Shell-Brotherson
No. 1-14B4
(D) Colo. Well Service
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Pumping.
(Rates will be carried on a weekly basis hereafter) JAN 20 1971

Shell Brotherson
1-14B4
(D)
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pumping. (RRD 1-20-71).

Avg weekly tests are as follows:

BOPD	BWPD	Total Wtr Recovered to Date
9	435	11,484

(RD until 2-2-71) JAN 27 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Prep to pull 5 1/2" csg circ string. (RRD 1/27/71).
MI&RU Ford Rig 2/1/71. Pulled and laid down rods and pump.
Pulled 4,000' 2 7/8" N-80 tbg and ~~the circulating assembly.~~
FEB 2 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Prep to run WL to check TD.
Pulled prod equip. FEB 3 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. Circ; prep to cut back weight of SW
from 8.9 to 8.8. MI&RU Cable Well Service. Ran in hole
w/sinker bar and found PBTD 7333. Spudded 20' to 7353'
(solid bottom). RD Cable Well Service. Ran in hole
w/7 7/8" bit on 2 7/8" tbg. W/bit at 6840, circ oil and
gas out of csg. Circ for 2 hrs. FEB 4 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. CO OH w/reverse circ.
Circ for 30 mins in reverse. Pumped 8.9#/gal SW at
rate of 3 B/M. Pump press - 300 psi. Rate - 2 B/M. FEB 5 1971
Added fresh wtr to system to cut weight back. Began
washing down by reverse circ yesterday. Washed to 7320,
then hit bridge. Washed down 30' in 15 mins. Reverse
circ 15 min at rate of 3 B/M. Cut rate of SW w/fresh wtr.
Lost est 750 BSW by 6 p.m. Washed down to 8918' at 7 a.m.
2/5/71 w/hard bridges in OH at 7349-75, 7530-66, 8033-58,
& 8898-8903. Lost additional 400 BSW by 7 a.m. 2/5/71.
(1150 BSW lost). (Present weight - SW rates weight 8.7#/gal).

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. PB 7353. Shut down temporarily.
Washed down open hole to TD at 9812 in 12 hrs. Hard
bridges at the following intervals: 8980-9007, 9017-38,
9180-9217, 9322-50, 9370-85, 9624-52, 9750-9812. All
washed down with reverse circ. 11 bridges total and
reverse circ hole for 12 hrs. No indication of any sloughing.
Pulled tbg and bit to 7565 and hit tight spot. Worked tbg
and bit and circ for 2½ hrs. Returns had considerable
cuttings. Well circulated clean in next 1 hr. Small bridge
formed just below bit. Cleaned out 8' bridge. Pulled 18
jts 2 7/8" tbg and left bit at 7000' - 100' above csg shoe.
Ran back in hole w/7-7/8" bit on 2 7/8" tbg. Hit bridge at
7609-34. Washed out same. Hit second bridge at 7649. Pulled
bit back into 9 5/8" csg at 7,000'. FEB 8 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Pulling tbg and bit.
SD until 4 p.m. 2/8/71. Pulled 2 7/8" tbg and 7 7/8" bit
out of hole. Ran in w/8 3/4" bit on 2 7/8" tbg to 7100'.
Washed down OH to 7688, no hard bridges. Hit bridge at
7688 and held six points on indicator. Pulled up 1 jt, circ
one hr, and rechecked bridge w/6 points of weight. FEB 9 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Running prod equipment.
Ran in w/2 7/8" tbg with tail to 7654'. MI&RU Hal.
Pump 5 bbls SW to establish circ. Mixed 35 sx cmt, 1:1 poz,
and 10% NaCl. Displaced with 3½ BSW to equalize cmt in tbg
and open hole. Opened tbg and annulus. Cmt balanced. FEB 10 1971
Lost 5 bbls SW while mixing and displacing cmt. Pulled
14 jts tbg. Reverse circ for 30 mins. Pumped 90 bbls -
returns 83 bbls. Reversed out estimated ½ bbl cmt. Pull 4
jts tbg - tail at 7063'. WOC 8 hrs. Ran in 2 7/8" tbg and
tagged top of cmt plug at 7603', 85' of cmt. Pulled 2 7/8" tbg.

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Swabbing.
Ran in with Bkr 9 5/8" "R" dbl grip pkr, 2 jts 2 7/8" N-80
tbg and seating nipple on 2 7/8" tbg. Set pkr at 7031,
seating nipple at 6970. Landed tbg on donut. RU to swab.
Started swabbing at 2 p.m.; FL at sfc. Swabbed FL down
to 6500' in 5 hrs, 90% cut. Last 12 hrs - swabbed est 24
bbls fluid, 10% cut. Avg 2 B/H, FL 6500', SF seating nipple
at 6970'. FEB 11 1971

Shell-Brotherson
1-14B4
(D) Ford
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Swabbing. On 24-hr test, swabbed 36 BO, and 0 BW.
Avg - 1½ BO/H, FL 6500', SF seating nipple at 6970'. FEB 12 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Prep to clean up location for resumption of drlg.
Down 2 hrs repairing sand line. Swabbed 18 BO and no wtr in
7 hrs. Avg rate last 4 hrs - 1 1/2 BO/H, FL 6500', SF seating
nipple at 6970'. Filled tbg with SW. Released pkr. Pulled
and laid down tbg and pkr. Picked up sucker rods, broke out
and laid down in singles. CO mud pits. Released Ford rig
2 p.m. 2/14/71. FEB 16 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Removing pmpg unit, etc. in prep to MI rig for
deepening well. (RD until rig MI). FEB 17 1971

Shell-Brotherson
1-14B4
(D)
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Drlg mouse hole; prep to test BOP's and chk
manifold. (RRD 2/17/71). FEB 23 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Picking up 3 1/2" alum DP.
MI&RU Barker Rig 2/22/71. Tested chk manifold to 5,000 psi
for 30 mins, held ok after several repairs. Tested BOP's
and hydril, had many leaks. Tested at 2,000 psi for 30 mins
held ok. Filled hole before starting in w/DP; took 50 BW.
FEB 24 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" csg at 7100'

TD 9812. Cleaning out to plug. Ran 3 1/2" DP to top of fill
at 7423. Drld and washed to 7444. Tried to make connec-
tion but pipe stuck; worked free in 1/2 hr. Picked up DP,
cond SW, and cleaned hole. Drld and washed to 7595. Fill
very hard. Cond hole for six hrs.
Mud: 9.2 x 30 FEB 25 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

TD 9812. Staging to bottom; cond mud.
Hit cmt plug at 7595; drld plug and washed to 8046.
Mud came out as fluffy foam - no body. Dumped same and
built new volume. Might have been oil contaminating cmt
below plug - depth now 8257. FEB 26 1971
Mud: 9 x 38.

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

9903/14/6/91. Drilling.
Mud: 9.4 x 45 x 8 MAR 1 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

9930/14/7/27. Logging.
Mud: 9.4 x 46 x 8 (Oil trc). MAR 2 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

9930/14/8/0. Making short trip & cond hole to run liner.
Ran microsonic and attempted to run NML.
Mud: 9.4 x 46 x 8. MAR 3 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
9 5/8" Csg at 7100'

9930/14/9/0. Washing liner to bottom from 9914-9921.
Mud gradient - .483 MAR 4 1971
Mud: 9.3 x 45

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" Liner at 9921'

9930/14/10/0. Nippling up and WOC.
Ran and cmt 3019' 7 5/8" 38.05# N-80 hydril FJ Liner at
9921' w/128 sx Class "G" cmt, 15% salt, 1% CFR-2, 2% HR-4,
& 1/8# Nylon Fibers. Top of liner at 6879', center of pkr
at 6887, top of slips at 6891, float collar at 9917, shoe
at 9921, 3 DW centralizers spaced @ 9913, 9873, & 9833.
CIP 8:50 a.m. 2/4/71. MAR 5 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

9987/14/13/57. Drilling.
At 11:30 a.m. 3/5/71, attempted to press test liner w/rig
pump; would not hold. Had to pick up liner seat tool, run
to bottom, and reseal pkr on liner. Picked up and tested to
2,000 psi, held ok. Tested hydril line to 5,000 psi,
held ok. SLM 9967 = 9973 (made 6' correction)
Mud gradient - .514 MAR 8 1971
Mud: 9.9 x 39 x 5

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,022/14/14/35. Prep to core.
Mud: 10 x 35 MAR 9 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,059/14/15/37. Circ gas out of SW.
Mud gradient - .504 MAR 10 1971
Mud: 9.7 x 36 (Oil 2%)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,071/14/16/12. Drilling.
Circ gas cut mud 10 1/2 hrs, raised wt to 10.2 carrying 200 units
gas. Made short trip, circ bottoms up - no increase in gas.
Pulled out of hole w/core bbl. Went in hole w/bit. When
drilling bottoms up, mud was gas cut from 10.2 to 9.9 for
15 mins. Displaced 420 bbls mud w/10.2#/gal wtr while drlg.
Mud gradient - .530 MAR 11 1971
Mud: 10.2 x 36 (Oil 2%)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,150/14/17/79. Circ for logs.
Core No. 3 10,022-10,059. Cut and rec'd 37'.
10,022-10,048 Sh, dk gry, firm, calc
10,048-10,050 Sh, a.a., sli calc
10,050-10,054 Sh, dk gry, firm, calc, calcite lined
fracs, oil stained on frac faces, lt blue
nat fluor
10,054-10,059 Sh, a.a., very sli silty, no fractures
Note: Core badly broken.
Mud gradient - .530 MAR 12 1971
Mud: 10.2 x 29 (Oil Trc)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River
Wasatch Test
7 5/8" liner at 9921'

10,150/14/20/0. Going in hole w/test tool for DST #10.
Pulled out of hole. RU Schl. Ran Int BHCS/GR/Cal. Hit
fill at 10,047. Went in hole w/bit. Washed and reamed
184' of fill. Circ hole clean. Added fresh wtr to mud.
Circ and cond mud for DST. Pulled out of hole. Tested
BOP's and chk manifold to 3,000 psi, held ok. Went in
hole with Johnston test tool. Set pkr at 9905.
DST #9 9921-10,150
(1) Pkr set @ 9905 in 7 5/8" liner
(2) 30' tail pipe
(3) 1600 ft (11 bbls) water cushion
Op 4 hrs 6 min Op w/wk blow, inc to strong blow in 1.5 min.
GTS 70 min (TSTM), continued throughout.
SI 9 hrs 8 min
Recovery: Reversed out:
11 bbls oil cut water cushion, 7 bbls gas cut
drilling fluid, and 40 bbls gas cut oil.
Sample Chamber: 1175 psig; 1600 cc oil (32.1° API @ 60°F);
4.6 cu ft gas

Pressures: Recorder @ 9913
IHP 5278, IFP 935, FFP 2100, FSI 4343, FHP 5240
Max Temperature = 173°F. MAR 15 1971
Mud: 10.1 x 29 (Oil trc)

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,150/14/21/0. Running DST #10.
Went in hole w/test tool assembly. Set pkr at 9908.
Mud: 10.1 x 29 (Oil trc). MAR 16 1971

Shell-Brotherson
No. 1-14B4
(D) Barker
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,150/14/22/0. Laying down DP in prep to temporarily abandon.
DST No. 10 9921-10,150
(1) Pkr set @ 9908 in 7 5/8" liner
(2) 30' tail pipe
(3) 1600' (11 bbls) water cushion
Op 8 hrs 33 min Op w/wk. blow. Inc to strong in 2 min.
GTS 70 min. Max rate 6.0 MCFPD.

SI 24 hrs.

Recovery: Reversed out: 11 bbls gas and oil-cut water cushion
19 bbls gas-cut oil

Sample Chamber: 3.2 cu ft gas, 1925 cc's oil (32.2° API @ 60°F)
625 psi

Pressures: IHP 5157, IFP 874, FFP 2458, FSIP 4600, FHP 5183.

Max temperature: 180°F.

Set Model "C₁" ret BP at 6800.

Mud: 10.1 x 29 (Oil trc) MAR 17 1971
(Disc until further activity)

Shell-Brotherson
No. 1-14B4
(D)
10,250' Green River-
Wasatch Test
7 5/8" liner at 9921'

10,150/14/23/0. Temporarily abandoned.
Laid down DP. Nipped down BOP's and chk manifold.
Nipped up wellhead. Rig released 12 midnight 3/17/71.
(Disc until further activity). MAR 18 1971

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

TD 10,150. (RRD 3/18/71)
4/15: Cond mud. Tested BOP stack, chk manifold and
kill lines to 5000 psi and Hydril to 3500 psi. Tested
csg to 3300 psi w/BP @ 6800±'. Made up 3-1/2" DP w/BP
ret tool and latched onto BP after changing over to 10.1
ppg mud. Opened valve, surge flow at surface. Circ
btms up w/2000 units gas and some oil. BP reset itself.
Opened bypass surge flow at surface, raising mud to 10.4.
4/16: Circ hole. Increased mud wt to 10.4. Released
pkr and ran bit to 9924'.
4/17: Tripping in hole w/BP and pkr to test 7-5/8"
liner lap. Circ SW and G&OCM @ 9924. Had 3500 units
gas. Tripped in w/spear and bit to 6951. Ran free
point indicator. Pipe free @ 7065. Unable to locate
another free point. Liner top @ 6911'.
Mud: (gradient .540) 10.4 x 41 x 15.0 APR 17 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

10,163/63/1/13. Drilling. Tested liner lap to
3300 psi for 30 min w/BP set @ 9810'. Tested
7-5/8" liner to 3300 psi for 30 min. Cleaned out
to btm from 10,060-10,150.
Mud: (gradient .540) 10.4 x 38 x 17.0 APR 18 1972

Shell-Brotherson 1-14B4 10,210/63/2/47. Drilling.
(D) Parker Mud: (gradient .550) 10.6 x 40 x 15.0 APR 19 1972
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

Shell-Brotherson 1-14B4 10,245/63/3/35. Drilling.
(D) Parker Mud: (gradient .556) 10.7 x 39 x 12.8 APR 20 1972
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

Shell-Brotherson 1-14B4 10,260/63/4/15. Drilling. Dev: 1 1/2° @ 9950. Laid
(D) Parker down DP and picked up 12- 4-3/4" DC's and stab string.
13,000' Green River- Ran SLM - no correction.
Wasatch Test Mud: (gradient .556) 10.7 x 39 x 12.8 APR 21 1972
7-5/8" liner @ 9921'

Shell-Brotherson 1-14B4 4/22: 10,315/63/5/55. Drilling. Dev: 0° @ 10,300'.
(D) Parker Mud: (gradient .560) 10.8 x 40 x 13.0
13,000' Green River- 4/23: 10,415/63/6/100. Drilling. APR 24 1972
Wasatch Test Mud: (gradient .576) 11.1 x 38 x 13.0
7-5/8" liner @ 9921' 4/24: 10,525/63/7/110. Drilling. Dev: 1/4° @ 10,440'.
Mud: (gradient .591) 11.4 x 37

Shell-Brotherson 1-14B4 10,615/63/8/90. Drilling. Tripped for new bit.
(D) Parker Connection gas @ 10,558: 900 units (down 25 min w/11.4
13,000' Green River- mud). Connection gas @ 10,589: 1000 units (down 5 min
Wasatch Test w/11.9 mud). Background gas: 140 units w/12.2 mud.
7-5/8" liner @ 9921' Mud: (gradient .639) 12.2 x 36 x 14.4 APR 25 1972

Shell-Brotherson 1-14B4 10,701/63/9/86. Tripping to change bit. Trip gas @
(D) Parker 10,610': 1600 units - 10 min w/12.2 ppg mud. Back-
13,000' Green River- ground gas: 600-1000 units w/12.2 ppg mud, 100 units
Wasatch Test w/12.5 ppg mud. Show @ 10,627' w/1700 units gas - 5
7-5/8" liner @ 9921' min.
Mud: (gradient .650) 12.5 x 38 x 14.5 APR 26 1972

Shell-Brotherson 1-14B4 10,756/63/10/55. Drilling. Tested BOP's, chk manifold
(D) Parker and kill lines to 5000 psi. Tested Hydril to 3300 psi.
13,000' Green River- Trip gas: 2400 units. Background gas: 100-200 units.
Wasatch Test Mud: (gradient .650) 12.5 x 38 x 11.2 APR 27 1972
7-5/8" liner @ 9921'

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

10,843/63/11/87. Drilling. Background gas: 100 units.
Mud: (gradient .650) 12.6 x 37 x 11.2 APR 28 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

4/29: 10,937/63/12/94. Drilling. Background gas:
100 units.

Mud: (gradient .655) 12.6 x 38 x 11.2

4/30: 11,021/63/13/84. Drilling. Show @ 10,998-11,002
w/2000 units gas and 12.8 ppg mud. Background gas:
(before) 50 units, (after) 200 units.

Mud: 12.8 x 38 x 11.4

5/1: 11,070/63/14/49. Drilling. Tripped for new
bit. Circ hole 2 hrs. Trip gas: 500 units. Background
gas: 30-40 units.

Mud: (gradient .686) 13 x 38 x 11.6 MAY 1 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,158/63/15/88. Drilling. Background gas: 10-20
units; connection gas: 120 units.

Mud: (gradient .690) 13.1 x 38 x 11.6 MAY 2 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,238/63/16/80. Drilling. Background gas: 15 units;
connection gas: 30 units. MAY 3 1972

Mud: 13.4 x 36 x 14

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,308/63/17/70. Working stuck pipe. Lost 50 bbls
mud while drlg @ 11,305-308. Mixed and spotted 25#/bbl
LCM, rec'g circ. When lowering bit to btm, pipe stuck
@ 11,265'.

Mud: (gradient .703) 13.5 x 36 x 14.0 MAY 4 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,308/63/18/0. Running Dia-log freepoint on stuck pipe.
Sptd 38 bbls black magic around fish @ 5 PM.

Mud: (gradient .702) 13.5 x 36 MAY 5 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

5/6: 11,308/63/19/0. Fishing. Ran Dia-log freepoint, finding pipe free @ 10,856 (WLM). While working left-hand torque in string, DC's backed off @ 10,843 (DPM). Rec'd eleven 4-3/4" DC's. Ran Dailey jars, screwed into fish and jarred on same. Top of fish @ 11,843'.
Mud: (gradient .712) 13.7 x 45 x 7.6

5/7: 11,308/63/20/0. Washing over fish @ 10,915'. Jarred on fish @ 10,874. Ran freepoint and backed off, tripping out w/part of fish. Picked up and ran wash pipe. Circ and cond mud.

Mud: (gradient .696) 13.4 x 37 x 4.8

5/8: 11,308/63/21/0. Tripping in hole w/new bit. While washing over fish @ 10,920, fish dropped to btm. Could not get over fish w/washover shoe. Pulled wash pipe and ran overshot and rec'd fish, laying down fish and picking up drlg assembly.

Mud: (gradient .696) 13.4 x 37 x 4.8 MAY 8 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,361/63/22/53. Drilling. Circ hole for 1½ hrs. Gas show @ 11,354-357 w/4000 units gas. Background gas: 5-10 units. Lost 15± bbls mud @ 11,338.
Mud: 13.7 x 38 x 7.2 MAY 9 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,418/63/23/57. Tripping for new bit. Background gas: 5 units. Connection gas: 50 units.
Mud: (gradient .718) 13.8 x 38 x 4.4 MAY 10 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,455/63/24/37. Drilling. Tested BOP's, chk manifold and kill line to 5000 psi and Hydril to 3300 psi, OK. Lost 100± bbls mud @ 11,432. Background gas: 10 units, trip gas: 1000 units.
Mud: (gradient .723) 13.9 x 36 x 7.2 (1% oil) MAY 11 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,568/63/25/113. Drilling. Show @ 11,529-11,535 (200 units). Background gas: 120 units. Connection gas: 150 units.
Mud: (gradient .749) 14.4 x 40 x 8.8 MAY 12 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

5/13: 11,630/63/26/62. Drilling. Lost 100± bbls mud @ 11,593'. Bit plugged - spent 4½ hrs trying to get bit to drill. Background gas: 150-200 units. Connection gas: 400 units.

Mud: 14.5 x 40 x 8.8

5/14: 11,712/63/27/82. Drilling. Background gas: 20 units.

Mud: 14.7 x 39 x 8.8

5/15: 11,816/63/28/104. Drilling. Show @ 11,771-11,777 w/220 units gas. Background gas: 200 units.

Mud: 14.7 x 40 x 8.4 MAY 15 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,885/63/29/69. Mixing mud. Made short trip to clean hole. Lost circ while drlg @ 11,885 - no returns. Lost 550± bbls. Background gas: 360 units. Trip gas: 1200 units.

Mud: (gradient .769) 14.8 x 38 x 8.8 MAY 16 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,885/63/30/0. Circ. Pulled to shoe of 7-5/8" csg. Mixed mud volume and storage mud for 15 hrs. Regained full circ @ 60 SPM. Staged in hole and CO bridges @ 10,915, 10,945, 10,960 and 10,975 and washed hole from 11,800-11,885 - had 20' fill. Lost 300 bbls mud. Background gas: 600 units.

Mud: (gradient .769) 14.8 x 38 x 9.4 (4% LCM) MAY 17 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,905/63/31/20. Logging. Tripped to change bit. Background gas: 1000 units. Trip gas: 1400 units. Circ hole prior to logging.

Mud: (gradient .769) 14.8 x 37 x 9.8 MAY 18 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'

11,905/63/32/0. RU to run liner. Finished logging as follows: Ran Schl DIL, FDC, CNL and BHCS-GR w/cal. Circ and cond mud prior to running liner.

Mud: (gradient .769) 14.8 x 39 x 7.2 MAY 19 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5½" liner @ 11,905'

5/20: 11,905/63/33/0. WOC. Ran and cmtd 54 jts (2230.82') 5½" 20# N-80 and SOO-95 liner to 11,905 w/ 400 sx Class "G" cmt w/2% gel, 1% CFR-2 and 0.3% HR-4. CIP @ 5:30 PM. Top of 5½" liner hanger @ 9657'.

Mud: (gradient .769) 14.8 x 43 x 7.6

5/21: 11,905/63/34/0. Circ and cond cmt cut mud. Dev: 1-3/4" @ 11,900'. WOC 12 hrs. Drld cmt from 8683-9657 and treated cmt cut mud.

Mud: (gradient .769) 14.8 x 12.0 (vis too gelled to meas)

5/22: 11,905/63/35/0. Drlg FC @ 11,825. Had difficulty breaking circ inside 5½" liner. Washed liner from 11,435-11,825. Circ and cond mud total of 7 hrs.

Mud: (gradient .764) 14.7 x 65 x 18.0

MAY 22 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

11,939/63/36/34. Drilling. Drld cmt, FC and shoe.
Circ and cond mud 4 hrs. Tested 5 1/2" liner w/1500 psi,
held OK. Tripped for new bit @ 11,905.
Mud: (gradient .780) 15.0 x 43 x 12.0 MAY 23 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

12,024/63/37/85. Drilling. Background gas: 5-10 units.
Mud: (gradient .725) 14.9 x 42 x 12.4 MAY 24 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

12,102/63/38/78. Drilling. Background gas: 10 units.
Connection gas: 30 units.
Mud: (gradient .775) 14.9 x 42 x 12.4 MAY 25 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

12,180/63/39/78. Drilling. Background gas: 5 units.
Mud: (gradient .780) 14.9 x 41 x 12.4 MAY 26 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7 5/8" liner @ 9921'
5 1/2" liner @ 11,905'

5/27 12,251/63/40/71. Drilling.
Mud: (.78) 14.9 x 40 x 12.6
5/28 12,327/63/41/76. Drilling.
Mud: (.77) 14.9 x 40 x 11.8
5/29 12,406/63/42/79. Drilling.
Background gas - 10 units
Connection gas - 50-80 units
Mud: (.77) 14.8 x 38 x 11.6
5/30 12,428/63/43/22. Drilling.
Cut drlg line. Tested EOP chk manifold, mud lines, etc.,
to 5000 psi and tested hydril to 3300 psi. Visually inspected
all DC's and 2 7/8" DP.
Background gas - 5 units MAY 30 1972
Trip gas - 250 units
Mud: (.77) 14.2 x 42 x 10.4

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7 5/8" liner @ 9921'
5 1/2" liner @ 11,905'

12,525/63/44/97. Drilling.
Mud: (.77) 14.9 x 41 x 14.0

Shell-Brotherson 1-14B4 12,599/63/45/74. Drilling
(D) Parker Repaired gas supply line JUN 1 1972
13,000' Green River- Mud: (.77) 14.9 x 37 x 12.0
Wasatch Test
7 5/8" liner @ 9921'
5 1/2" liner @ 11,905'

Shell-Brotherson 1-14B4 12,685/63/461/86. Drilling.
(D) Parker Mud: (.774) 14.9 x 38 x 11.2.
13,000' Green River- JUN 2 1972
Wasatch Test
7 5/8" liner @ 9921'
5 1/2" liner @ 11,905'

Shell-Brotherson 1-14B4 6/3: 12,770/63/47/85. Drilling.
(D) Parker Mud: (.774) 14.9 x 41 x 10.8
13,000' Green River- 6/4: 12,850/63/48/80. Drilling.
Wasatch Test Mud: (.774) 14.9 x 63 x 6.4 JUN 5 1972
7 5/8" liner @ 9921' 6/5: (12,930/63/49/80. Drilling.
5 1/2" liner @ 11,905' Mud: (.774) 14.9 x 44 x 6.8

Shell-Brotherson 1-14B4 TD 13,000. Circulating.
(D) Parker Mud: (gradient .774) 14.9 x 45 x 4.4 JUN 6 1972
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

Shell-Brotherson 1-14B4 TD 13,000. Making wiper trip. Circ prior to logging.
(D) Parker Ran GRN log - could not get below 10,600'. Made SLM
13,000' Green River- @ 13,000' = 12,997' (no correction). JUN 7 1972
Wasatch Test Mud: (gradient .774) 14.9 x 45 x 4.4
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

Shell-Brotherson 1-14B4 TD 13,000. Logging. Prep to cond hole w/bit. Ran logs
(D) Parker as follows: IES, Caliper and Sonic. Trip gas on wiper
13,000' Green River- run: 70 units. JUN 8 1972
Wasatch Test Mud: 14.8 x 45 x 4.8
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5 1/2" liner @ 11,905'

TD 13,000. Prep to hang 3 1/2" liner. Completed logging operations. Ran DP and cond hole. RU and ran 36 jts 3 1/2" 10.30# N-80 CS hydril liner w/top of liner @ 11,868 (includes pkr on top of liner).
Mud: 14.8 x 45 x 4.8
JUN 9 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000.
6/10: Running 7-5/8" csg. Tagged btm w/3 1/2" liner and positioned same. Dropped back to set slips and started pmpg @ 2 B/M. Press slips and pkr set prematurely. Picked up work string and established liner was hung. Closed pipe rams and press annulus to 1250 psi for 10 min, held OK. Tripped and picked up mill to dress 7-5/8" tieback sleeve and started in hole. Elevators would not fit csg properly. WO another set 8 hrs.
Mud: 14.8 x 45 x 4.8

6/11: Drilling cmt and nose plug on tieback. Ran 157 jts 7-5/8" S-95 33.7# SFJ-P csg and BOT tieback sleeve. Engaged and stung into tieback sleeve @ 6911. Picked csg up 8" and cmtd w/100 sx Class "G" cmt containing 1% CaCl₂ and 1% CFR-2. Press w/250 gal mud flush. Bumped plug @ 2:00 PM, 6/10. Stung into tieback sleeve and set 30,000# wt on seal assembly and set csg slips. Released press on csg seal assembly and tested to 2500 psi, held OK. Ran bit and drld plugs and firm cmt from 6859-6904.
Mud: 14.8 x 45 x 7.2

6/12: Laying down DP. CO to 9657, tripped out and ran RTTS pkr to 9000'. Displaced 3 1/2" DP w/fresh wtr. Set pkr and made 80 min in-flow test, held OK (no flow). Released pkr and reset @ 7100. Press annulus to 3000 psi, held OK.
Mud: 14.8 x 45 x 7.2
JUN 12 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. Tearing out rig. Finished laying down DP. Removed BOP's and installed wellhead.
JUN 13 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

No report. JUN 14 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

No report.

JUN 15 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" Liner @ 9921'
5-1/2" Liner @ 11,905'
3-1/2" Liner @ 12,998'

No report.

JUN 16 1972

Shell-Brotherson 1-14B4
(D) Parker
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000.

6/14: MORT. Released rig 12:00 noon, 6/13/72.
RDUFA.

JUN 19 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. (RRD 6/19/72). Pulling tbg. Finished RU
Western Oilwell Service. Installed BOP's. Ran 7-5/8"
csg scraper on 2-7/8" tbg to top of liner @ 9657. Circ
out 14.9 ppg mud w/fresh wtr. JUN 27 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. Pulling tbg. Pulled tbg and scraper. Ran
1200' 2-1/16" FJ tbg and 8457' 2-7/8" EUE tbg. Had
trouble getting 2-1/16" tbg through 5 1/2" liner top w/
2-1/16" to 2-7/8" change-over stopping @ 9657' (liner
top) and could not work through. Started pulling tbg.
JUN 28 1972

Shell-Brotherson 1-14E4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. RU power swivel. Pulled tbg. Ran 4 1/2"
impression blk on sd line. Impression block had indi-
cation of metal cuttings approx 2/3 way around
blk w/some metal cuttings impregnated in blk. Ran
16" long tapered mill, tapered from 1-1/2" to 4-5/8",
tagging liner top @ 9657. Milled 30 min; dropped
free 6' and continued milling 45 min, making 2'. JUN 29 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. Running tbg. RU power swivel. CO from
9663-11,868 (top of liner). Pulled tbg and tapered
mill. JUN 30 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000 PB 12,998.

7/1: Prep to log. Ran 1200' 2-1/16" FJ tbg and
11,798' 2-7/8" EUE tbg w/2-1/16" mill. Ran to PBDT
@ 12,998. Circ hole clean. Rec small amt oil. SI
30 min w/no press buildup. Pulled tbg and mill. RD
power swivel.

7/2: Logging. Finished pulling tbg. RU Schl to log
w/more than 1300 psi on csg. Could not lubricate tools
in or out of hole. RD Schl. WO logging truck from 11
AM to 4 PM. RU OWP (only truck available). Ran GR
collar log from 11,900-9600 and 12,970-11,900. JUL 3 1972

7/3: Prep to run prod eqmt. Finished running logs
as follows: CBL and VDL. Ran Baker Model "D" w/o jk
pusher or plug on WL, setting @ 9635. WL measurement
for liner top @ 9642. Cmt fair to poor on log, w/3500
psi on csg. RD OWP. Ran 4979' (156 jts) 5 1/2" heat string.

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998.

7/4: Circ treated wtr. Installed 5 1/2" BP valve,
removed BOP's and WO Cameron for parts for 3 hrs.
Installed tbg spool and BP valve and removed BP
valve. Ran prod eqmt as follows: Baker Model "C"
expendable plug holder w/o plug, 10' x 2-7/8" N-80
nonperf'd prod tube, Otis overshot and tbg seal
divider w/2.313" landing nipple and 2.255" no-go,
two Camco KBM "G" mandrel w/dummies. Hydrotested tbg
going into hole to 7500 psi. Unable to sting into pkr.

7/5: WO prod facilities. Press'd csg to 2000 psi.
Opened flapper valve and stung into pkr. Unlatched
from on-off tool and circ FW w/K-700 and K-470. Dis-
placed tbg w/5% SW. Installed BP valve, removed BOP's,
installed 10,000# frac tree and removed BP valve. Tested
tree and tbg to 10,500 psi and bled off 100 psi in 1 min.
Released rig 7/4/72 @ 4 PM. Tbg design: 10' prod tube,
3' seal assembly, Otis on-off tool @ 9630, Camco mandrel
@ 9563, Camco mandrel @ 5501, 314 jts 2-7/8" EUE tbg,
one 2' sub and one 6' sub. (RDUFA) JUL 5 1972

Shell-Brotherson 1-14B4
 (D)
 13,000' Green River-
 Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. RU Camco 7/24/72.
 Ran 1-9/16" tool to top of liner @ 11,868 - tool
 hanging in liner. Pulled tool. RD Camco. Installed
 safety shut-down valve. Well started flowing to tank
 battery @ 5 PM. On 11-hr test, well flowed 330 BO
 and no wtr w/304 MCF gas on 11/64" chk @ well and
 15/64" chk @ tank battery w/4665 psi TP and 1300 psi
 bleed line press. JUL 25 1972

Shell-Brotherson 1-14B4
 (D)
 13,000' Green River-
 Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing to battery. On 24-hr
 test, well flowed 744 BO and no wtr w/989 MCF gas on
 11/64" chk @ WH and 19/64" chk @ battery w/4650 psi
 FTP and zero CP. JUL 26 1972

Shell-Brotherson 1-14B4
 (D)
 13,000' Green River-
 Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. On 24-hr test, well flowed 729
 BO and no wtr w/924 MCF gas on 11/64" chk @ WH and
 19/64" chk @ FL w/4650 psi FTP and zero CP. JUL 27 1972

Shell-Brotherson 1-14B4
 (D)
 13,000' Green River-
 Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
 flowed 783 BO and no wtr w/924 MCF gas on 11/64" chk
 @ WH and 19/64" chk @ FL w/4625 psi FTP and zero CP.
 JUL 28 1972

Shell-Brotherson 1-14B4
 (D)
 13,000' Green River-
 Wasatch Test
 7-5/8" liner @ 99201'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 31,000. PB 12,998. Flowing. On 24-hr tests,
 well flowed as follows: JUL 31 1972

Date	BO	BW	MCF	Chk		FTP	CP
				WH	FL		
7/29	704	2	885	11/64"	17/64"	4570	0
7/30	842	1	907	11/64"	18/64"	4520	0
7/31	665	5	740	11/64"	19/64"	4570	0

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 834 BO and no wtr w/907 MCF gas on 11/64" WH chk
and 18/64" FL chk w/4490 psi FTP and zero CP. AUG 1 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 793 BO and 1 BW w/907 MCF gas on 11/64" chk @
WH and 18/64" chk @ FL w/4500 psi FTP and zero CP.
AUG 2 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 20-hr test, well
flowed 649 BO and 5 BW w/708 MCF gas on 10/64" chk @
WH and 18/64" chk @ FL w/4525 psi FTP and zero CP.
AUG 3 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test,
well flowed 745 BO and no wtr w/903 MCF gas on 11/64"
WH chk and 18/64" FL chk w/4480 psi FTP and zero CP.
AUG 4 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr tests, well
flowed as follows:

Date	BO	BW	MCF Gas	Chk		FTP	CP
				WH	FL		
8/5	886	1	974	11/64"	17/64"	4460	0
8/6	837	1	840	11/64"	17/64"	4400	0
8/7	818	0	875	11/64"	18/64"	4250	0

AUG 7 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 807 BO and 2 BW w/892 MCF gas on 11/64" chk w/
4250 psi FTP and zero CP. AUG 8 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 842 BO and 2 BW w/858 MCF gas on 11/64" chk w/
4350 psi FTP and zero CP. AUG 9 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. SI for treater change. On 8-hr
test, well flowed 301 BO and no wtr w/653 MCF gas on
11/64" chk w/4350 psi FTP and zero CP. AUG 10 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. SI for treater change. No prod.
AUG 11 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On various tests,
well flowed as follows:

Date	Hrs	BO	BW	MCF Gas	Chk	FTP	CP
8/12	12	731	132*	1000	18/64"	3940	0
8/13	24	2718	467*	4456	21/64"	3800	0
8/14	24	2468	0	4400	21/64"	3775	0

*Circulating wtr - zero prod wtr. AUG 14 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 21-hr test, well
flowed 1183 BO and no wtr w/2222 MCF gas on 15/64" chk
w/4260 psi FTP and zero CP. AUG 15 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 1342 BO, no wtr, and 2194 MCF gas on 12/64"
chk w/4000 psi FTP and zero CP. AUG 16 1972

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 19-hr test, well flowed 1107 BO and no wtr w/2204 MCF gas on 16/64" chk w/3960 psi FTP and zero CP. AUG 17 1972

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well flowed 1691 BO and no wtr w/3115 MCF gas on 17/64" chk w/3900 psi FTP and zero CP. AUG 18 1972

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3 1/2" liner @ 12,998'

TD 13,000. PB 12,998. On various tests, well flowed as follows: AUG 21 1972

Date	Hrs	BO	BW	MCF Gas	Chk	FTP	CP
8/19	24	1250	0	1045	12/64"	4030	0
8/20	19	544	0	570	12/64"	4040	0
8/21	24	994	0	928	14/64"	4000	0

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 20-hr test, well flowed 1089 BO and no wtr w/840 MCF gas on 14/64" chk w/3960 psi FTP and zero CP. AUG 22 1972

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well flowed 1238 BO and no wtr w/2226 MCF gas on 14/64" chk w/3730 psi FTP and zero CP. AUG 23 1972

Shell-Brotherson 1-14B4 (D)
 13,000' Green River-Wasatch Test
 7-5/8" liner @ 9921'
 5-1/2" liner @ 11,905'
 3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, flowed 1195 BO, no wtr, and 2226 MCF gas on 14-24/64" chk w/3920 psi FTP and zero CP. AUG 24 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, flowed
1193 BO, no wtr and 2208 MCF gas on 14-24/64" chk w/3300
psi FTP and zero CP. AUG 2 5 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. SI for BHP. On various tests,
well flowed as follows:

Date	Hrs	BO	FW	MCF Gas	Chk	FTP	CP
8/26	24	1341	0	2100	14/64"	3960	0
8/27	12	370	0	1050	14/64"	3600	0
8/28	SI 24 hrs for BHP. AUG 2 8 1972						

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. SI for BHP. AUG 2 9 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. SI for BHP. AUG 3 1 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 8-hr test, well
flowed 593 BO, no wtr and 758 MCF gas on 16/64" chk
w/3800 psi FTP and zero CP. AUG 3 1 1972

Shell-Brotherson 1-14B4
(D)
13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test,
flowed 2161 BO, no wtr and 3546 MCF gas on 20/64"
chk w/3500 psi FTP and zero CP. SEP 1 1972

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr tests, well
flowed as follows:

Date	BO	BW	MCF Gas	Chk	FTP	CP
9/2	1563	0	2442	16/64"	3740	0
9/3	1184	0	2163	12/64"	3380	0
9/4	724	0	1375	12/64"	3800	0
9/5	829	0	1415	12/64"	3810	0

SEP 5 1972

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test,
flowed 644 BO, no wtr and 1213 MCF gas on 10/64"
chk w/3880 psi FTP and zero CP. SEP 6 1972

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. Flowing. On 24-hr test, well
flowed 293 BO, no wtr and 459 MCF gas on 10/64" chk
w/3800 psi FTP and zero CP. (RDUFA) SEP 7 1972

Shell-Brotherson 1-14B4
(D)

13,000' Green River-
Wasatch Test
7-5/8" liner @ 9921'
5-1/2" liner @ 11,905'
3-1/2" liner @ 12,998'

TD 13,000. PB 12,998. OIL WELL COMPLETE. (RRD 9/7/72)
On 24-hr test 9/9/72, well flowed 2073 BO, no wtr and
3501 MCF gas on 21/64" chk w/3420 psi FTP and zero CP
from the following Green River-Wasatch perms: 10,309,
10,318, 10,436, 10,440, 10,446, 10,579, 10,598, 10,611,
10,623, 10,662, 10,667, 10,687, 10,706, 10,730, 10,736,
10,768, 10,897, 10,908, 10,918, 10,930, 10,975, 10,982,
11,044, 11,082, 11,090, 11,135, 11,152, 11,160, 11,184,
11,275, 11,311, 11,420, 11,432, 11,441, 11,492, 11,496,
11,529, 11,593, 11,665, 11,685, 11,699, 11,718, 11,835,
11,851, and 12,919.

Oil Gravity: 44.2° API @ 60°F

Elev: 6121 GL, 6141 KB

Test Date: 9/9/72. Initial Production Date: 7/24/72

Log Tops: TGR-3	8,975	(-2834)
WASATCH TRANSITION	11,350	(-5209)
FLAGSTAFF	11,890	(-5749)
NORTH HORN	12,550	(-6409)

This was a Green River test deepened to the Wasatch.

Well extends Wasatch production one mile south.

FINAL REPORT. 10/11/72

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-14B4

KB to CHF: 20'

Ran 8 jts 54.5# smls, 13 3/8" casing to 310'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&C</u> <u>LT&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
<u>8</u>	<u>54.5</u>	<u>K-55</u>	<u>ST&C</u>	<u>New</u>	<u>314</u>	<u>0</u>	<u>310</u>
<u>8 Jts. Total</u>							

(Actual csg in ground - 290')

Bkr Guide Shoe @ 310'.

No. Make & Type:

2-B&W centralizers spaced at 305' and 265'.

Cementing:

Cemented w/400 sx Class "G" w/3% CaCl₂. Displaced top rubber plug to 280' w/43½ bbls water. Good cement returns at surface. CIP 10:30 p.m. 10/11/70.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-14B4 KB to CHF: 13.60'

Shoe joint started in hole at 7:30 p.m. 3/4/71.

Ran 77 jts 7 5/8", Smls, Hydril FJP casing liner to 9921.54'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>LT&C</u> <u>ST&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
Top of liner hanger						6879.00	6899.33
76	38.05	N-80	Hydril	New	2978.39	6899.33	9877.72
Brown Float Collar					.93	9877.22	9878.65
1	38.05	N-80	Hydril	New	41.14	9878.65	9919.79
Brown Shoe					1.75	9919.79	9921.54

77 Jts Total

Hangar Type CMC

Brown Hanger @ 6879'

Packer Type CRL

Brown Landing Collar @ 9877.72

Setting Tool Type C-1

Brown Shoe @ 9921.54

No. Make & Type:

3 - BW Centralizers: Spaced at 9913, 9873, and 9833.

Cementing:

Broke circulation at 7:15 a.m. Displaced w/174 bbls. With 20 bbls water ahead, cemented through shoe at 9921' with 128 sx Class "G" cement, 15% salt, 1% CFR-2, 2% HR-4, and 1/8# Nylon Fibers. Wt. 11.6#/gal. Plug down 8:50 a.m. 3/4/71. Bled back 1½ bbls.

CASING AND CEMENTING

Field: Altamont

Well: Brotherson 1-14B4

Ran 170 jts 9 5/8" ST&C 40# S-95 casing to 7100'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	LT&C <u>ST&C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
170	40	S-95	ST&C	New	7,100	0	7,100

170 Jts Total

Fillup float collar at 7,011

No. Make & Type:

2 B&W centralizers on shoe jt.

Cementing: Cemented w/200 sx 1:1 pozmix, 1% CFR-2, .2% HR-4 followed by 150 sx Class "G" cement, 1% CFR-2, .3% HR-4. Used 20 bbls water preflush. Displaced with 552 bbls mud. Bumped plug w/2500 psi. CIP 4:30 a.m. 11/11/70. Halliburton mixing time - 10 min. Displacing time - 64 min.

CASING AND CEMENTING

FIELD ALTAMONT WELL BROTHERSON 1-14B4 KB TO CHF 26.00'

Shoe jt started in hole at 10:30 PM 6-9-72

Ran 157 jts 7 5/8" hydril S-95 SFJ-P csg to 6911'

<u>JTS</u>	<u>WT</u>	<u>GRADE</u>	<u>ST&C LT&C</u>	<u>NEW</u>	<u>FEET</u>	<u>FROM</u>	<u>TO</u>
		Hydril			26.00	KB	26.00 CHF
1	39#	S-95	SFJ-P	X	69.94	26.00	36.64
<u>156</u>	<u>33.7#</u>	"	"	X	6,874.63	36.64	6911.27

157 jts Total

Set as follows:

Engaged and stung into tie-back sleeve. Picked up 8' and cemented w/100 sx Class "G" cem, 1% CFR-2, and 1% CaCl₂, preceded by 250 gal mud flush. Plug down 2 PM 6-10-72. Slurry volume - 20 bbls, 305 bbl flush. Displaced at 4 B/M w/1100 psi. Stung into tie-back sleeve w/30,000# wt. Eled back 1/2 bbl mud, held ok.

.88' Baffle at 6858.64 (top)
6.77' tie-back stem 6904.50 (top)

CASING AND CEMENTING

FIELD ALTAMONT WELL BROTHERSON 1-14B4 KB TO CHF 26.00'

Shoe jt started in hole 8 PM 5-19-72

Ran 54 jts 20# N-80 S00-95 5½" liner to 11,905.00'

<u>JTS</u>	<u>WT</u>	<u>GRADE</u>	<u>ST&C</u> <u>LT&C</u>	<u>NEW</u>	<u>FEET</u>	<u>FROM</u>	<u>TO</u>
BOT							
Hgr	20#	P-110	8rd LT&C	X	15.95	9657.37	9673.32
BOT							
X-Over	20#	P-110	8rd SFJ-P	X	.86	9673.32	9674.18
41	20#	N-80	SFJ-P	X	1705.56	9674.18	11,379.74
11	20#	S00-95	SFJ-P	X	445.84	11,379.74	11,825.58
F.C.	20#	P-110	SFJ-P	X	1.70	11,825.58	11,827.28
2	20#	S00-95	SFJ-P	X	76.72	11,827.28	11,904.00
Shoe	20#	P-110	SFJ-P	X	1.00	11,904.00	11,905.00

54 jts Total

Top of liner hanger at 9,657.37

Howco Diff. Float Collar 11,825.58

Howco Guide Shoe at 11,905.00

No., Make and Type

3 B & W VRC centralizers spaced 6' from shoe, 6' from float collar, and 200' from float collar.

Cementing

Broke circ at 3 PM w/1100 psi. Circulated 60 min. With rig pump, cemented at 11,905' w/400 sx Class "G" cem, 2% gel, 1% CFR-2, and .3% HR-4. Wt - 14.8 - 15#/gal. Mixing complete in 23 min. Press = Max 1750, min 1500. Plug down 5:30 PM. Press = Max 1250, min 1000, avg - 1250. Press to 3,000 psi in 1/4 min. Bled back 1/2 bbl.

CASING AND CEMENTING

FIELD ALTAMONT WELL BROTHERSON 1-14B4 KB TO CHF 26.00'

Shoe jt started in hole 9:45 PM 6-8-72

Ran 36 jts 3½" 10.30# N-80 CS hydril liner to 12,998

<u>JTS</u>	<u>WT</u>	<u>GRADE</u>	<u>ST&C</u> <u>LT&C</u>	<u>NEW</u>	<u>FEET</u>	<u>FROM</u>	<u>TO</u>
BOT "FB"	RPP pkr				8.45	11,868.00	11,876.45
36	10.30#	N-80	CS Hydril	X	1,121.28	11,876.45	12,997.73
			Off Bottom		2.27	12,997.73	TD

Set as follows:

Ran 36 jts 3½" liner and 8.45' Bkr pkr to 11,868 (top) - 12,997.73. Tested liner to 3250 psi prior to running to btm, held ok. 10 min into displacement at 2 B/M; pkr set. Pumped an additional 95 min at same rate. Picked up work string 8' - lost 10,000# weight, closed BOP's and press'd all csg strings to 1250 psi, held 10 min, ok. Rec'd setting tool and ball.

DRILLING WELL PROGNOSIS

WELL NAME Brotherson 1-14B4
 TYPE WELL Development
 FIELD/AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) 2100' FNL, 750' FEL, Sec. 14-T2S-R4W, Duchesne County, Utah

EST. G. L. ELEVATION 6,110 PROJECTED TD 13,000* OBJECTIVE Green River-Wasatch
 *Deepen existing well - present TD is 10,150

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 1/2	13 3/8			300'	SAMPLES: 10': 10,150' to TD
12 1/4	9 5/8			6879' 7100'	CORES: None
8 3/4	7 5/8 FJ			9921'	DST'S: None
6 1/2	5 1/2" FJ Liner			10,150' Existing TD	
6 1/2	5 1/2" FJ Liner		1°/1000'	BGR Sand 10,580' (-4439')	DEVIATION CONTROL Dogleg severity - less than 1 1/2° per any 100' interval.
4 3/4	3 1/2" or 4" FJ Liner	2 man mud logging unit		Top Wasatch 10,700' (-4559)	CEMENT To be provided with casing and cementing prognoses for liners.
		SNP		11,000'*	MUD Mud system prognosis to be provided separately.
		DIL		Miles Zone 12,020' (-5879')	
		BHC Sonic-GR		TD 13,000'	*Casing point for 5 1/2" liner dependent upon mud loss as weight is increased.

ORIGINATOR: RD [Signature] DATE 11/9/71

ENGINEERING APPROVAL: [Signature] 2aw

PETROLEUM: [Signature] 4/10/72

OPERATIONS: [Signature]

OPERATIONS APPROVAL: [Signature] J F Furry
 DIV. DRILLING SUPT.

DRILLING WELL PROGNOSIS

WELL NAME Brotherson 1-14B4
 TYPE WELL Development
 FIELD/AREA Altamont

APPROX. LOCATION (SUBJECT TO SURVEY) 2100' FNL, 750' FEL, Sec. 14-T2S-R4W, Duchesne County, Utah

EST. G.L. ELEVATION 6,110 PROJECTED TD 13,000* OBJECTIVE Green River-Wasatch

*Deepen existing well - present TD is 10,150

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 1/2	13 3/8			300'	SAMPLES: 10': 10,150' to TD CORES: None DST's: None
12 1/2	9 5/8			6879' 7100'	
8 3/4	7 5/8 FJ			9921'	
6 1/2				10,150' Existing TD	
6 1/2	5 1/2" FJ Liner		1°/1000'	BGR Sand 10,580' (-4439') Top Wasatch 10,700' (-4559) 11,000'*	DEVIATION CONTROL Dogleg severity - less than 1 1/2° per any 100' interval. CEMENT To be provided with casing and cementing prognoses for liners.
4 3/4	3 1/2" or 4" FJ Liner	2 man mud logging unit SNP DIL BHC Sonic-GR		Miles Zone 12,020' (-5879') TD 13,000'	MUD Mud system prognosis to be provided separately. *Casing point for 5 1/2" liner dependent upon mud loss as weight is increased.

ORIGINATOR: RD [Signature] DATE 11/9/71

ENGINEERING APPROVAL: [Signature]

PETROLEUM: [Signature]

OPERATIONS: [Signature]

OPERATIONS APPROVAL:
[Signature]
 DIV. DRILLING SUPT.

STATE OF UTAH
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.)

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.
1-14B4

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 Section 14-T2S-R4W

12. COUNTY OR PARISH
Duchesne

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company

3. ADDRESS OF OPERATOR
1700 Broadway, Denver, Colorado 80290
DEC 20 1976

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2100' FNL & 750' FEL Section 14

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6141 KB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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) <u>Install gas lift equip</u> <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.)*

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: Dec 27, 1976
BY: Ph Ansell

See attachment

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

SIGNED J. W. Linnell TITLE Div. Oper. Engr. DATE 12/16/76

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment

ACID WASH & INSTALL GAS LIFT EQUIP

SHELL OIL COMPANY

ALTAMONT

FROM: 8/24 - 12/15/76

LEASE	BROTHERSON	WELL NO.	1-14B5
DIVISION	WESTERN	ELEV	6141 KB
COUNTY	DUCHESNE	STATE	UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

"FR" TD 13,000. PB 12,998. AFE #420704, 706 & 707 provides funds to pull tbg, pull & retire 5-1/2 heat string, CO to PB, AW perfs & install gas lift equip. MI&RU Western #19. Pmp'd 20 bbls prod wtr down tbg; on vac. Installed & tested BOP's. Filled csg w/120 bbls prod wtr @ 2.5 B/M & CP came up to 1500 psi. SICP to 0 in 1 min. Unlatched from pkr & pmp'd 600 bbls prod wtr down csg to est returns out of tbg. Pulled 60 stds tbg & SD for night.

AUG 24 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. Tbg & latch in seal assy showed no visible indication of a leak. Installed BPV in 5-1/2 donut. Pulled 156 jts 5-1/2 csg heat string. Removed BOP's & 10 x 10 AP spool. Reinstalled & tested BOP's. SD for night.

AUG 25 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. RIH w/Bkr pkr picker & milled on pkr. Reverse circ'd to clean up. SI overnight.

AUG 26 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. RIH w/Bkr ret pkr to locate apparent csg leak. Milled Model D pkr loose. POOH & found pkr slips cut off, but had not fallen loose.

AUG 27 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. 8/27 Set pkr @ 9600. Filled csg-tbg annulus w/prod wtr. Press'd to 2000#. Had slight press drop; bled off gas. Repress'd to 2000#, ok. POOH. RIH w/4-5/8 mill; found 20' fill and/or scale above liner top. 8/28 RU power swivel. Pmp'd 300 bbls prod wtr down csg & obtained partial returns. Milled w/reverse circ; mill kept plug'g up. Made 2'; mill plug'd off completely. Could not pmp down tbg w/5000#. POOH. SI well.

AUG 30 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. RIH w/4-5/8 washover shoe, finger basket & 1 jt 4" WP. Stop'd 20' above fill & pmp. Rotated & circ'd down 14'; got some fine metal cuttings in returns. Pulled up & reverse circ'd tbg clean. POOH; pull'g wet. Could not pmp down tbg @ 1000 psi. Pulled 13 stds wet. SI overnight.

AUG 31 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift equip)

TD 13,000. PB 12,998. Pulled tbg; wet w/oil. Swb'd tbg down while pull'g. WP had considerable junk metal & some rubber. RIH w/2-3/4" mill. SD for night.

SEP 01 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,998. Pmp'd approx 300 bbls prod wtr to get partial returns. Milled 2' into top liner; mill plug'd. Unplug'd mill and milled & washed 30' into liner. Pulled out of 3-1/2 liner & reversed tbg clean. SI well overnight.

SEP 0 2 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,998. Pmp'd 400 bbls prod wtr to est circ in reverse. Ran mill 30' into liner; milled down 15'. Hit bridges w/mill @ 12,800, but broke thru them. Mill plug'd; could not est any circ or pmp down tbg w/5000 psi. POOH. SD for night.

SEP 0 3 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,998. Fin'd CO 3-1/2" liner. Ran tbg w/latch for Bkr pkr; could not latch in. POOH. Run'g Bkr pkr to perf & frac.

SEP 0 7 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

SEP 0 8 1976

TD 13,000. PB 12,998. Loaded csg w/200 bbls wtr. Installed new spool for 7" csg. Set 5-1/2" full-bore pkr @ 11,866; 2' above F1 pkr @ 11,868. Drop'd std'g valve. Press tested tbg & csg, ok. Installed 10,000# tree. RD.

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,998. Prep to run base temp log & perf.

SEP 0 9 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

SEP 1 0 1976

TD 13,000. PB 12,780. Ran temp log from 11,800-12,780 (PBTD). Perf'd as per prog 12,730-12,243; 22' of gun did not fire top part. Made 2nd run; top 12' did not fire. Perf'd 12,238-12,140. On 3rd run perf'd 12,135-12,024; 5' did not fire. Made total of 3 runs & 33 holes. Start TP 500#; end TP 4650#. Depths correlated to Schl GRN log dated 6/6/72.

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,780. (Corr to rept of 9/10: Perf'd total of 31 holes as per prog (12,730-12,070).) SITP 4650. Opened well to pit to clean up. Rec'd mostly load wtr, gas & some mud. Turned well into bty. 9/11 In 19 hrs well flwd 88 BO, 17 BW, 195 MCF gas on 25/64 chk w/300 psi FTP. 9/12 In 24 hrs flwd 100 BO, 343 BW, 670 MCF gas on 30/64" chk w/300 psi FTP.

SEP 1 3 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,780. In 24 hrs flwd 248 BO, 50 BW, 491 MCF gas on 30/64" chk w/250 psi.

SEP 1 4 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,780. On 24-hr test, gas lifted 525 BO, 35 BW, 612 MCF gas w/400 psi.

SEP 1 5 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,780. On 24-hr test, gas lifted 331 BO, 15 BW, 444 MCF gas w/200 psi.

SEP 1 6 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 24 test, gas lifted 464 BO,
(AW & Install gas lift equip) 10 BW, 550 MCF gas w/200 psi. SEP 17 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. 9/17 Backed well down w/50 bbls
(AW & Install gas lift equip) prod wtr foll'd by 50 bbls diesel. Max press 5000 psi @
1/2 B/M. RD&MO BJ. MI&RU OWP. Perf'd last 7 holes in
3-1/2" liner @ 12,039, 12,027, 12,013, 11,994, 11,958,
11,946 & 11,918. Press before & after perf'g 3800 psi.
Opened well to bty. 9/18 In 21 hrs flwd 475 BO, 1 BW &
478 MCF gas on 25/64" chk w/350 psi. 9/19 In 24 hrs flwd
482 BO, 47 BW & 558 MCF gas on 23/64" chk w/400 psi. Prep
to open chk. SEP 20 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 22-hr test, flwd 350 BO, 1 BW,
(AW & Install gas lift equip) 606 MCF gas on 25/64" chk w/430 psi. Opened chk 5 p.m. 9/20. SEP 21 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 24-hr test, prod 598 BO, 5 BW,
(AW & Install gas lift equip) 741 MCF gas w/200 psi. SEP 22 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 24-hr test, prod 433 BO, 0 BW,
(AW & Install gas lift equip) 578 MCF gas w/200 psi. SEP 23 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 24-hr test, prod 618 BO, 0 BW,
(AW & Install gas lift equip) 732 MCF gas w/250 psi. SEP 24 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On various tests, prod:
(AW & Install gas lift equip)

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
9/25:	24	526	2	590	200
9/26:	24	526	8	744	200
9/27:	24	453	18	371	250

SEP 27 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 24-hr test, prod 353 BO, 31 BW,
(AW & Install gas lift equip) 655 MCF gas w/450 psi. SEP 28 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. On 3-hr test, prod 52 BO, 1 BW,
(AW & Install gas lift equip) 81 MCF gas w/250 psi. SEP 29 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. SI.
(AW & Install gas lift equip) SEP 30 1976

Shell-Brotherson 1-14B4 TD 13,000. PB 12,780. (WO #420707) Cut wax & backed
(AW & Install gas lift equip) well down w/18 bbls diesel. Ran BHP bomb 9/27. 9/30 Pulled
bomb. RU Schl. Opened well to stabilize. Prep to log. OCT 01 1976

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip) OCT 04 1976

TD 13,000. PB 12,780. Finished running prod. log.
Report discontinued until further activity.

Shell-Brotherson 1-14B4
(AW & Install gas lift
equip)

TD 13,000. PB 12,780. (RRD 10/4/76) RIH to 11,000'
w/Newsco CTU & jet'd w/N2. Well unloaded 150 BO & 70 BW.
POOH & RD. Well currently prod'g 828 BO & 650 BW on 64"
chk w/450 psi TP.
FINAL REPORT

DEC 15 1976

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(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. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</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 2100' FNL & 750' FEL Section 14</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Patented</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Brotherson</p> <p>9. WELL NO. 1-14B4</p> <p>10. FIELD AND POOL, OR WILDCAT Altamont</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-T2S-R4W</p> <p>12. COUNTY OR PARISH Duchesne</p> <p>18. STATE Utah</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141 KB</p>	

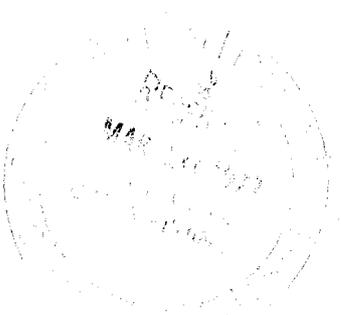
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	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) _____	
(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.)*

RECEIVED BY THE DIVISION OF
OIL, GAS AND MINING
DATE March 11, 1977
BY D. W. Stewart

See attachment



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

SIGNED R. Plauty TITLE Div. Opers. Engr. DATE 3/8/77

(This space for Federal or State office use)

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

cc: USGS w/attachment

ACID TREAT
SHELL OIL COMPANY

FROM: 1/26 - 3/1/77

LEASE	BROTHERSON	WELL NO.	ALTAMONT
DIVISION	WESTERN	ELEV	1-14B4
COUNTY	DUCHESNE	STATE	6141 KB
			UTAH

UTAH
ALTAMONT

Shell-Brotherson 1-14B4
(AT)

"FR" TD 13,000. PB 12,780. AFE #420707 provides funds to AT, move pkr & AW upper perms. MI&RU WOW #19. Bled gas & oil from csg & tbg. Released pkr & circ'd hole clean w/prod wtr. Pulled tbg & prod equip. SI for night.
JAN 26 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. Pulled tbg & full bore pkr. Ran new 5-1/2 Bkr full bore pkr. Could not get unloader (above pkr) thru top of liner. Pulled 60 stds tbg.
JAN 27 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. 12-hr SITP 1400#. RU OWP. Fin'd pull'g tbg & pkr. Ran 3-11/16" OD Bkr unloader & set Bkr full bore pkr @ 11,866 w/20,000# tension. Installed 10,000# tree. RU Hal & AT perms 11,918-12,498 (42 holes) w/160 bbls 15% HCl as per prog. Max TP 7100 psi, avg 6800, min 6100. Max rate 11 B/M, avg 8-1/2, min 5. ISIP 3000 psi, 5 mins 1600, 10 mins 1400, 15 mins 600. Pmp'd 35 bbls diesel tail in. ISIP 1600 psi, 5 mins 500. Pmp'd 410 bbls prod wtr down back side during trtmt maintaining 500#. Had good ball & diverter action in the 3 stages. Used 30 ball sealers. Total load of trtmt 497 bbls.
JAN 28 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. 16-hr SITP 2200#. Ran temp & GR logs from 12,720-11,700; indicated 90% of perms took trtmt. RD OWP. Flwd well to pit thru 20/64" chk w/1300# FTP. SI well to hook up flwline to bty. 2-hr SITP 2150#. Released rig 4 p.m. 1/29/77. Turned well over to prod.
JAN 31 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, gas lifted 615 BO, 150 BW, 773 MCF gas w/1375 psi inj press. FEB 01 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 194 BO, 28 BW, 311 MCF gas w/180 psi. FEB 02 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 72 BO, 14 BW, 180 MCF gas w/180 psi. FEB 03 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 95 BO, 7 BW, 43 MCF gas w/180 psi. FEB 04 1977

Shell-Brotherson 1-14B
(AT)

TD 13,000. PB 12,780. On various tests, prod:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
<u>2/4:</u>	24	816	269	373	180
<u>2/5:</u>	24	1019	500	1137	180
<u>2/6:</u>	24	801	674	1000	180

FEB 07 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 183 BO, 142 BW,
346 MCF gas w/180 psi.

FEB 08 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. RU HOT & pmp'd 36 bbls diesel
down tbg. Press up to 3500#. RU & ran wax cut'g tools;
unable to get below 9720'. Rec'd 2 rubber balls in cut'g
tools. RD HOT & wax cutters. SD for night.

FEB 09 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. RU BJ to pmp diesel down tbg;
press'd to 7000#. Plug started mov'g down hole. Pmp'd
total of 40 bbls diesel & press drop'd to 2000# after
pmp'g stop'd. RD BJ. Opened well to bty on 16/64" chk
to flw diesel back. Press drop'd to 1100#. After 5 hrs
flw'g, TP 2000# on 16/64" chk.

FEB 10 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 241 BO, 72 BW,
222 MCF gas w/180 psi.

FEB 11 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On various tests, prod:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
<u>2/11:</u>	24	944	283	920	180
<u>2/12:</u>	24	1291	297	1136	180
<u>2/13:</u>	24	861	333	1045	180

FEB 14 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 783 BO, 628 BW,
1045 MCF gas w/180 psi.

FEB 15 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 599 BO, 446 BW,
719 MCF gas w/180 psi.

FEB 16 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 857 BO, 661 BW,
727 MCF gas w/180 psi.

FEB 17 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 703 BO, 694 BW,
598 MCF gas w/180 psi.

FEB 18 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On various tests, prod:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
<u>2/18</u>	24	818	747	808	180
<u>2/19</u>	24	784	759	986	180
<u>2/20</u>	24	796	827	727	180
<u>2/21</u>	24	972	768	768	180

FEB 22 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 856 BO, 808 BW,
736 MCF gas w/180 psi. FEB 23 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 707 BO, 805 BW,
682 MCF gas w/180 psi. FEB 24 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On 24-hr test, prod 898 BO, 892 BW,
682 MCF gas w/500 psi. FEB 25 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On various tests, prod:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
<u>2/25:</u>	24	662	817	728	180
<u>2/26:</u>	24	569	787	591	180
<u>2/27:</u>	24	835	745	674	180

FEB 28 1977

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,780. On test 1/77 prior to AT, flwd
avg of 341 BO, 359 BW & 451 MCF gas/D. On 24-hr test
2/28/77 after work, prod 622 BO, 858 BW, 629 MCF gas
w/180 psi.
FINAL REPORT

MAR 01 1977

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. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</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 2100' FNL & 750' FEL Section 14</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Patented</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Brotherson</p> <p>9. WELL NO. 1-14B4</p> <p>10. FIELD AND POOL, OR WILDCAT Altamont</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-T2S-R4W</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.) 6141 KB</p>	

18. 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 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) <u>Install submsbl pmp</u> <input checked="" type="checkbox"/>	
(Other) <u>Install submsbl pmp</u> <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.)*

See attachment

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: July 15, 1977

BY: [Signature]



I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Div. Opers. Engr. DATE 7/8/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment

ACID TREAT

ALTAMONT

SHELL OIL COMPANY

LEASE BORTHERSON

WELL NO. 1-14B4

DIVISION WESTERN

ELEV 6141 KB

FROM: 1/16 - 1/20/78

COUNTY BUCHESNE

STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(AT)

JAN 17 1978

"FR" TD 13,000. PB 12,763. Lease expense provides funds to remove scale @ 10,004'. Pumped 840 gals of 15% HCl inhibited & 40 bbls prod wtr. Max press 1000# finished 250#. Soaked 3 hrs. Pumped 80 bbls prod wtr, returned to control gas lift.

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On various tests well gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
1/14	24	73	50	843	1175
1/15	24	114	0	1259	1250

JAN 17 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 424 BO, 400 BW, 2102 MCF gas w/1250 psi inj press. JAN 18 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 423 BO, 400 BW, 2240 MCF gas w/1300 psi inj press. JAN 19 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. Returned well to central gas lift & from 1/16 thru 1/19, well has avg'd 403 BO & 400 BW/day.
FINAL REPORT JAN 20 1978

INSTALL SUBMSBL PUMP

SHELL OIL COMPANY

ALTAMONT

LEASE BROTHERSON

WELL NO. 1-14B4

DIVISION WESTERN

ELEV 6141 KB

COUNTY DUCHESNE

STATE UTAH

FROM: 5/19 - 7/8/77

UTAH
ALTAMONT

Shell-Brotherson 1-14B4
(Install submsbl pmp)

"FR" TD 13,000. PB 12,763. AFE provides funds to install artificial lift (submsbl pmp). MI&RU CWS #76. SD for night.

MAY 19 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. Pmp'd 60 BW down tbg & 240 BW down csg. Installed 5000# BOP's. Tried, but could not release full bore ret pkr. Pmp'd approx 1000 bbls prod wtr down csg w/wt on tbg in order to circ. Got good circ, but got no sd or scale that might indicate fill on pkr. Tried to release again w/several different wts w/no success. Pulled tension on tbg to close unloader & pmp'd 30 bbls down tbg & press'd to 1100# to see if there is a hole; no hole in tbg. Prep to freept. SD for night.

MAY 20 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. 5/20 Bled press. McC RIH & found freept @ 11,601 (approx 261' fill on top of pkr). 5/21 RIH w/WL & fished wax cut'g tool from top of pkr. Ran string shot & set off in pkr to jar loose. Tried to release pkr & shear off, but got no movement. Ran chem cutter & cut tbg @ 11,592 (10' above collar & 10' above freept). Pulled all tbg except 20 stds. SI well. MAY 23 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. Pmp'd 100 bbls prod wtr down csg. RIH w/washover shoe, 11 jts WO pipe, bumper sub, jars & 4 collars. Ran approx 11,250' tbg & @ approx 300' from fish. Started PU wt & get'g sticky. Pmp'd 250 BW & got returns of wtr & some oil when it started kick'g hard w/gas. Turned to pit & pmp'd 650 BW; well died. LD 14 jts tbg & got close to top of perms. SD for night.

MAY 24 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. No report.

MAY 25 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. 5/24 Ran tbg to approx 300' above fish w/mill'g shoe. Washed & circ'd approx 485' down to a pt 87' from pkr. Torqued up to 2200# @ 11,775. POOH to chk mill'g tool. SD for night. Pmp'd 950 BW for circ'g this date. 5/25 Pulled tbg, 4 collars, jars, bumper sub & 11 jts WP. Lost mill'g shoe in hole. RIH w/tbg & overshot. Latched onto fish & tried to pull pkr; still stuck tight. Prep to run freept. SD for night.

MAY 26 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. McC found freest above collar @
(Install submsbl pmp) 11,796. RIH & chem cut @ 11,796. Pmp'd 50 BW down
tbg & started out of hole. Pulled all tbg above
overshot, fish'g tool & 6-1/2 jt cut off above fill.
PU new mill'g shoe, 3 jts WO pipe, bumper sub, jars, 4
DC's & 320 jts 2-7/8 tbg. Pmp'd 400 BW this date.
SI well for night.

MAY 27 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. 5/27 RIH w/tbg to approx 11,780.
(Install submsbl pmp) PU power swivel & started mill'g & circ'g. Made only 19'.
Loosing 800-1000 BW/D, but get'g good circ. 5/28 Cont'd
mill'g & circ'g @ approx 11,799. Made 6" in 2-1/2 hrs.
Pulled all tbg, DC's, bumper sub, jars, 2 jts 4-1/2 WP &
4' of the last jt of WP. Twisted off in last jt & left
approx 22' WP & 2' shoe in hole. Ran 20 stds 2-7/8 tbg
back in hole. SD for night.

MAY 31 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. SITP 1000 psi. Bled off press &
(Install submsbl pmp) pmp'd 350 bbls prod wtr. Pulled 2-7/8 tbg. Ran 4-1/2
impress blk on sdline & tag'd fish @ approx 11,799.
POOH w/blk; had impress of 4-1/2 WP look'g up. RIH
w/spear, bumper sub, jars & 2-7/8 tbg. Stacked out on
fish @ 11,799. PU on tbg strng & had 6000# friction
drag for approx 18'. Pulled up to 9000'; well started
flw'g. Pmp'd 950 bbls prod wtr for circ & kill'g well.
Hole took wtr as fast as pmp'd in. Pulled up to 2800'
w/tbg & SD for night.

JUN 01 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. No report.
(Install submsbl pmp)

JUN 02 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. 6/1 Pmp'd 350 bbls prod wtr &
(Install submsbl pmp) pulled 2800' 2-7/8 tbg w/bumper sub, jars, spear & 6' of
4-1/2 WP. RIH w/4-1/2 impress blk on 9/16" sdline &
tag'd up @ 11,805. POOH w/sdline; had impress of 4-1/2
WP w/one side of pipe bent back towards inside of pipe.
Ran .092 WL w/2-3/16 impress & tag'd 4-1/2 WP @ 11,810.
Went thru & tag'd tbg @ 11,820. POOH w/WL & had clear
impress of 2-7/8 tbg. RIH w/tapered mill, jars, bumper
sub & 2-7/8 tbg. SD for night. 6/2 SITP 400#. Bled
press & RIH w/2-7/8 tbg to top of fish @ 11,783. Milled
over top of 4-1/2 WP 2 hrs. Pmp'd 700 bbls prod wtr
while mill'g. POOH w/tbg, jars, bumper sub & tapered
mill. RIH w/spear, jars, bumper sub & 2-7/8 tbg & tag'd
fish @ 11,783. Set down 10,000# wt; tbg string wt 72,000#.
Pulled up to 112,000 & set jars off twice before fish
came free. Pulled 300' 2-7/8 & SD for night.

JUN 03 1977

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. 6/3 SITP 750#. Bled off press &
(Install submsbl pmp) pmp'd 750 bbls prod wtr. POOH w/tbg, bumper sub, jars,
spear, 16' of 4-1/2 WP & mill. RIH w/overshot for 2-7/8
tbg & approx 11,780' 2-7/8 tbg. Cut off tbg @ 11,817.
Made several attempts to latch tbg, but overshot kept
slip'g off. POOH w/7000' tbg & SD for night. 6/4 SITP
300#. Bled off press & pmp'd 300 bbls prod wtr. POOH
w/tbg & overshot. RIH w/4' ext over top of overshot to
11,795 & hit tight spt. Worked pipe while circ'g prod
wtr; unable to get past 11,809. Pulled tbg up inside
7-5/8" csg & SI well.

JUN 06 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

JUN 07 1977

TD 13,000. PB 12,763. SITP 350 psi. Bled off press & pmp'd 400 bbls prod wtr. POOH w/tbg, 4' ext & overshot. Found overshot & ext mashed. RIH w/4-5/8 mill, 1 jt 4-1/2 WP, jars, bumper sub & 9600' 2-7/8 tbg. SI well.

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. Pmp'd 400 bbls prod wtr & ran approx 2165' tbg down to bad spt in csg. Installed stripper head & PU power swivel. Tag'd bad spt in csg @ approx 11,667. Milled & circ'd; made 10' in 5 hrs. Milled w/1400-1600# torque & got back what looks like frm rock & metal shavings. Stop'd mak'g hole @ 11,677 so pulled up & circ'd hole clean. Pulled mill above perfs & SD for night.

JUN 08 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. Ran tbg & tag'd fill approx 50' above area milled yesterday. Installed stripper head & power swivel. Made 6' & lost circ. Tried to circ down tbg, but just press'd up so tbg was plug'd. Removed stripper head & power swivel & pulled tbg. The 4 DC's were plug'd w/sd & frm rock. Ran 30 stds in hole & SD for night.

JUN 09 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. SIP 200#; bled off. Ran tbg in hole w/saw tooth collar on btm. Tag'd fill @ 11,678 (approx 49' higher than yesterday). POOH. Rotated & washed down to approx 11,776; 4 or 5' above fish. Got frm rocks in different sizes. Pulled tbg tail above perfs & SD for night.

JUN 10 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,763. 6/10 Ran tbg & tag'd fill @ 11,776. Pulled up 3 jts & circ'd 1-1/2 hrs. RIH & tag'd fill @ 11,773; lost 3' from circ'g. POOH & ran Go Int'l survey tool to chk csg for damage. Tool would not work; SD for night. 6/11 SIP 500#. Bled press & pmp'd 100 bbls prod wtr. RU Dialog & ran caliper to chk 5-1/2 csg. Tag'd @ 11,882, which is approx where tbg cut off. Couldn't get caliper set until @ 11,855, but showed no bad csg above this pt. Bad csg is around 11,777. RD Dialog. RIH w/4-1/2 mill, 1 jt WP, bumper sub, jars & 4 DC's to just above 5-1/2" liner top. SI well.

JUN 13 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Bled off press & pmp'd 100 bbls prod wtr. Ran tbg w/mill on btm & tag'd fill @ 11,773 (lost 4' of hole since Saturday). Pulled up a few feet & circ'd until got returns. Could not wash thru fill; tbg sticking. Pmp'd 600 BW in 1-1/2 hrs in a.m. Decided to pull above perfs to spt BAF & work in rig pmp. Started off btm & tbg plug'd off; could not pmp it clean. Pulled all tbg except 40 stds & SD for night. (Pmp'd 2000 BW this date)

JUN 14 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Killed well & POOH w/tbg & tools. Cleaned fill (frm rock) out of tools & RIH w/same tools. Had to run new mill'g tool. Stop'd @ 11,490 & RU BJ to pmp BAF. Pmp'd 40 BW down tbg foll'd w/1000# BAF & jet wtr. Flushed tbg w/110 BW. Reversed circ & pmp'd 310 bbls before we got returns. Ran tbg down hole & tag'd @ 11,747. Pulled up 5' & installed power swivel & stripper head & circ'd & rotated until we had good circ. Pmp'd @ about 5 B/M. Had 2 full 2" stream & steady. Made 25' in 1 hr w/no problem. Got large return of oil & gas, but still had good circ. After gas stop'd blowing circ stop'd instantly. Still had no torque or loss of wt. Pulled up to top of jt, but couldn't get circ. Tried to pmp down tbg w/o success. Pulled tbg & LD collars, jars & bumper sub. Pulled tbg wet & LD tools. Started RIH.

JUN 15 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Ran tbg, 4-1/2 mill & WP to btm; tag'd very light @ 11,760. PU power swivel & installed stripper head. Pulled up a few ft & filled hole w/prod wtr. Pmp'd 2000# Benzoic Acid Flakes & 36 bbls gelled wtr & displ'd down csg into perfs & into hole in csg to try to get circ. Made 17' of hole in 3 hrs. Almost lost circ several times. Pmp'd another 1000# BAF & 18 bbls gelled wtr @ 5 p.m. to hold fill & improve circ. Could not gain on the mill'g. Each time 11,777 was reached, we would stick & have to pull up & CO fill. Tbg plug'd; POOH. Pulled 9 jts tbg & rig froze up. (At 11,498, but still in the perfs) SD for night & rig repairs.

JUN 16 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Pulled 30 stands of tubing. Shut well in for night.

JUN 17 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Pmp'd 100 bbls prod wtr to kill well. Pulled 182 stds tbg, 1 jt WP w/mill on btm & LD last 70 jts since pkr is to be set in 7-5/8 csg. Could not get pkr down thru spool on tree. Removed spool & set pkr @ 9612, 2 jts tbg, mandrel w/o valve @ 9545, 22 jts tbg, mandrel w/o valve @ 8878, 23 jts tbg, mandrel w/o valve @ 8171, 39 jts tbg, mandrel w/o valve @ 6964, 55 jts tbg, mandrel w/o valve @ 5282, 78 jts tbg, mandrel w/o valve @ 2861, 92 jts tbg & landed on donut w/14,000# tension. Set BPV, removed BOP's & installed tree. Connected flwline & turned over to prod.

JUN 20 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. RD CWS #76 & then decided to pull tbg & run live valves in mandrels. RU CWS & pmp'd prod wtr to kill well. Bled CP, set BPV, removed tree & installed BOP's. Removed BPV, pulled up off donut & released pkr. Pulled tbg until 29 stds left & pkr would not move. SD for night.

JUN 21 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Took 5 hrs to pull pkr. Removed WH spool & BOP's to get 7-5/8 pkr out & reset BOP's. Started in hole w/5-1/2 full bore. Ran SN, 13 jts, mandrl w/valve @ 9586, 22 jts, mandrl w/valve @ 8913, 23 jts, mandrel w/valve @ 8200, 39 jts, mandrl w/valve @ 6981, 54 jts, mandrl w/valve @ 5308 & 78 jts. SD for night.

JUN 2 2 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Ran mandrl w/valve @ 2891, 94 jts, set pkr @ 10,004 & landed on donut w/14,000# tension on tbg. Installed tree & connected flwlines. Turned well over to prod. Released rig 6/22/77.

JUN 2 3 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. Gauge not available.

JUN 2 4 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. On 20-hr test, prod 261 BO, 31 BW, 194 MCF gas w/100 psi.

JUN 2 7 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. On various tests, prod:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>MCF Gas</u>	<u>Press</u>
6/24	24	192	214	582	375
6/25	24	174	52	607	200
6/26	24	171	215	758	175

JUN 2 8 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. On 24-hr test, prod 113 BO, 239 BW, 748 MCF gas w/175 psi.

JUN 2 9 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 12,766. On 24-hr test, prod 144 BO, 285 BW, 759 MCF gas w/175 psi.

JUN 3 0 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 11,164. 6/30 MI&RU Geotex to run inflw survey to determine prod'g intervals. Found a total fluid rate of 120 B/D. The survey indicated that all fluid was coming from below 11,130' & found PBTD @ 11,164. POOH & RD&MO Geotex. Note: Sfc prod for the 24-hr period was 90 BO, 187 BW & 350 MCF gas.

JUL 0 1 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 11,164. RU Otis & RIH & pulled Camco valve from 5266. RIH & set Camco CMI BK valve @ 5266. Valve set'g @ 60 deg test, rack press 1349# & sfc oper'g press 1292#. RD WL. Gas lift survey run on well 6/30/77 indicated valve @ 5266 was bad.

JUL 0 5 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 11,164. 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>
7/1	24	75	187	616	1220
7/2	24	2	2	37	1200
7/3	24	0	1	37	1400

JUL 0 6 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 11,164. On 24-hr test, gas lifted 0 BO, 0 BW, 33 MCF gas w/1400 psi inj press.

JUL 0 7 1977

Shell-Brotherson 1-14B4
(Install submsbl pmp)

TD 13,000. PB 11,164. Before work, well avg'd 40 BO,
65 BW & 80 MCF gas/day. After work, well avg'd 120 BO,
325 BW & 575 MCF gas/day.
FINAL REPORT

JUL 08 1977

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(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. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		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 2100' FNL & 750' FEL Section 14		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141 KB	9. WELL NO. 1-14B4
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-T2S-R4W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

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(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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See attachment

APPROVED BY THE DIVISION OF OIL, GAS AND MINING
DATE: Feb 16, 1978
BY: [Signature]



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

SIGNED [Signature] TITLE Div. Oper. Engr. DATE FEB 08 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attachment

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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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"/>	(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: May 3, 1978
BY: R. B. Amcott

See attachment



18. I hereby certify that the foregoing is true and correct
SIGNED R. Plaudy TITLE Div. Opers. Engr. DATE APR 21 1978

(This space for Federal or State office use)

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

cc: USGS w/attachment

ACID TREAT

SHELL OIL COMPANY

FROM: 3/20 - 4/18/78

ALTAMONT

LEASE

BROTHERSON

WELL NO.

1-14B4

DIVISION

WESTERN

ELEV

6141 KB

COUNTY

DUCHESE

STATE

UTAH

UTAHALTAMONTShell-Brotherson 1-14B4
(AT)

"FR" TD 13,000. PB 12,763. AFE provides funds to acid.
3/17 RU BJ & pmp'd 1000 gals 15% HCl dbl-inh'd acid.
Displ'd acid to btm of tbg @ 10,004' w/58 bbls prod wtr.
SI well overnight. Pmp'd acid to remove scale bldup
below tbg.

MAR 20 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test 3/17, gas lifted
109 BO, 408 BW, 1448 MCF gas w/1250 psi inj press.

MAR 21 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 8 BO,
32 BW, 472 MCF gas w/1250 psi inj press.

MAR 22 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
3/19	24	113	200	1038	1250
3/20	24	305	744	1843	1250
3/21	24	260	764	1978	1250

MAR 23 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 272 BO,
695 BW, 1917 MCF gas w/1250 psi inj press.

MAR 27 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 227 BO,
715 BW, 1866 MCF gas w/1250 psi inj press.

MAR 28 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 237 BO,
695 BW, 2028 MCF gas w/1250 psi inj press.

MAR 29 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test 3/25, gas lifted 185
BO, 654 BW, 1797 MCF gas w/1250 psi inj press. On 24-hr
test 3/26, gas lifted 174 BO, 626 BW, 1896 MCF gas w/1250
psi inj press.

MAR 30 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On various tests, gas lifted:

Rept Date	Hrs	BO	BW	MCF Gas	Inj Press
3/27	24	268	195	1843	1250
3/28	24	126	650	2072	1250
3/29	24	66	603	2189	1250

MAR 31 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 151 BO,
576 BW, 1865 MCF gas w/1250 psi inj press.

APR 03 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. 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>
3/31	24	138	615	1849	1250
4/1	24	163	638	1696	1250
4/2	24	158	671	1639	1250

APR 04 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 180 BO,
700 BW, 1514 MCF gas w/1250 psi inj press.

APR 05 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 169 BO,
717 BW, 1659 MCF gas w/1250 psi inj press.

APR 06 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 159 BO,
700 BW, 1777 MCF gas w/1250 psi inj press.

APR 07 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 163 BO,
700 BW, 1835 MCF gas w/1250 psi inj press.

APR 10 1978

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. 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>
4-7	24	153	700	1543	1250
4-8	24	156	458	1510	1250
4-9	24	183	601	1439	1250

APR 11 1978

Shell-Brotherson 1-14B4
(AT)

APR 12 1978

TD 13,000. PB 12,763. On 24-hr test, gas lifted: 160 BO,
598 BW, 1644 MCF gas, w/1250 psi inj press.

Shell-Brotherson 1-14B4
(AT)

APR 13 1978

TD 13,000. PB 12,763. On 24-hr test, gas lifted 167 BO,
1000 BW, 1817 MCF gas w/1250 psi inj press.

Shell-Brotherson 1-14B4
(AT)

APR 14 1978

TD 13,000. PB 12,763. On 24-hr test, gas lifted 155 BO,
209 BW, 1803 MCF gas w/1250 psi inj press.

Shell-Brotherson 1-14B4
(AT)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 195 BO,
649 BW, 1694 MCF gas w/1250 psi inj press.

APR 17 1978

Shell-Brotherson 1-14B4
(AT)

APR 18 1978

TD 13,000. PB 14,047. Prior to acid trtmt, well gas
lifted 100 BO & 600 BW/D. After work, well has been
prod'g an add'l 60 BO/D.
FINAL REPORT.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		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 2100' FNL & 750' FEL Section 14		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.		9. WELL NO. 1-14B4
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141 KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-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"/>
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: 6-28-78

BY: *[Signature]*

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

SIGNED *R. Plautz* TITLE Div. Ops. Engr. DATE 6/22/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: USGS w/attachment for info

ACIDIZE

ALTAMONT

SHELL OIL COMPANY
FROM: 6/21/78

LEASE BROTHERSON
DIVISION WESTERN
COUNTY DUCHESNE

WELL NO. 1-14B4
ELEV 6141 KB
STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(Ac dz)

"FR" TD 13,000. PB 12,763. 5/31 AFE #428477 provides func
to Ac dz well to remove scale below tbg. MI&RU BJ & pmp'd
2000 gals of 15% HCl double inhibited acid. Displaced tbg
w/60 bbls prod wtr. Left well SI over night & returned well
to prod. 6/1 For month of May well avg 115 BO, 408 BW &
for the 1st 7 days of June well has avg 147 BO & 620 BW
after acid job.

FINAL REPORT

JUN 21 1978

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2100' FNL & 750' FEL Section 14

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6141 KB

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.
1-14B4

10. FIELD AND POOL, OR WILDCAT
Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE/4 NE/4 Section 14-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"/>
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) _____	

(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: 6-22-78
BY: [Signature]

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

SIGNED [Signature] TITLE Div. Opers. Engr. DATE 6/22/78

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:
cc: USGS w/attachment for info

ACIDIZE

ALTAMONT

SHELL OIL COMPANY
FROM: 6/21/78

LEASE BROTHERSON
DIVISION WESTERN
COUNTY DUCHESNE

WELL NO. 1-14B4
ELEV 6141 KB
STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(Ac dz)

"FR" TD 13,000. PB 12,763. 5/31 AFE #428477 provides fund to Ac dz well to remove scale below tbg. MI&RU BJ & pmp'd 2000 gals of 15% HCl double inhibited acid. Displaced tbg w/60 bbls prod wtr. Left well SI over night & returned well to prod. 6/1 For month of May well avg 115 BO, 408 BW & for the 1st 7 days of June well has avg 147 BO & 620 BW after acid job.

FINAL REPORT

JUN 21 1978

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Patented
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME AUG 14 1978
3. ADDRESS OF OPERATOR 1700 Broadway, Denver, Colorado 80290		7. UNIT AGREEMENT NAME Brotherston
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2100' FNL & 750' FEL Section 14		8. FARM OR LEASE NAME Brotherston
14. PERMIT NO.		9. WELL NO. 1-14B4
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141 KB		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-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"/>
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"/>	
(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: August 14, 1978

BY: P. H. [Signature]

See attachment

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

SIGNED P. Plaudy TITLE Div. Oper. Engr. DATE 8/8/78
(This space for Federal or State office use)

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

cc: USGS w/attach for info

ACIDIZE

SHELL OIL COMPANY

FROM: 7/21 - 8/7/78

ALTAMONT

LEASE BROTHERSON

DIVISION WESTERN

COUNTY DUCHESNE

WELL NO. 1-14B4

ELEV 6141 KB

STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(Ac dz)

"FR" TD 13,000. PB 12,763. AFE #429277 provides funds to acidz well to remove scale. MI&RU BJ & pmp'd 2000 gals 15% double inhibited acid down tbg @ 1/2 bbls/min to remove scale building in tbg. Let acid set for 1 hr & displaced w/60 bbls prod wtr. RD BJ & left well SION. JUL 21 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. No report.

JUL 24 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. No report.

JUL 25 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 37 BO, 215 BW, 899 MCF gas w/1220 psi inj press. JUL 26 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 32 BO, 89 BW, 1249 MCF gas w/1220 psi inj press. JUL 27 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 76 BO, 361 BW, 1233 MCF gas w/1220 psi inj press. JUL 28 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 19-hr test, gas lifted 98 BO, 426 BW, 1697 MCF gas w/1220 psi inj press. JUL 31 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 219 BO, 672 BW, 1928 MCF gas w/1220 psi inj press. AUG 1 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On various tests, gas lifted:

Date	Hrs	BO	BW	MCF gas	Inj Press
7/29	24	111	910	2484	1220
7/30	24	89	855	1828	1220
7/31	24	48	807	1761	1220

AUG 2 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 93 BO, 538 BW, 1410 MCF gas w/1220 psi inj press. AUG 3 1978

Shell-Brotherson 1-14B4
(Acdz)

TD 13,000. PB 12,763. On 24 hr test, gas lifted 132 BO,
246 BW, 1813 MCF gas w/1220 psi inj press. AUG 04 1978

Shell-Brotherson 1-14B4
(Acdz)

TD 13,000. PB 12,763. 7/19 Acdz'd well w/2000 gals 15%
HCl double inhibited acid. Before work well was avg'g
34 BO & 85 BW daily. After work well avg'd for the last
12 days of July 115 BO & 565 BW. AUG 07 1978
FINAL REPORT

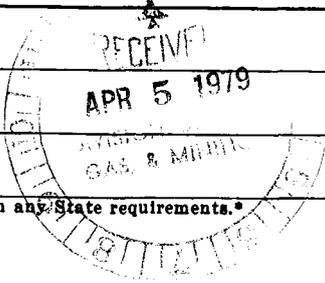
STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <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 Altamont	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2100' FNL & 750' FEL Section 14		8. FARM OR LEASE NAME Brotherson	
14. PERMIT NO.		9. WELL NO. 1-14B4	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141 KB		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLD. AND SURVEY OR AREA SE/4 NE/4 Section 14-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"/>	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) <u>CO Scale</u>	<input checked="" type="checkbox"/>
(Other) <u>CO Scale</u>	<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.)*

See attachment

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

SIGNED R. Plautz TITLE Div. Oper. Engr. DATE 4/2/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

cc: Utah USGS w/attach for info

CLEAN OUT SCALE

ALTAMONT

SHELL OIL COMPANY

LEASE

BROTHERSON

WELL NO.

1-14B4

DIVISION

WESTERN

ELEV

6141 KB

FROM: 2/23 - 3/28/79

COUNTY

DUCHESNE

STATE

UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(CO Scale)

FEB 23 1979

"FR" TD 13,000. PB 12,763. AFE #577257 provides funds to CO scale. 2/19 MI&RU Western Rig #16. 2/20 CP & TP 550 psi. Pmp'd 75 bbls dn tbg. POOH w/tbg & mandrels. Btm 20 jts & last mandrel scaled up inside & outside. Found part @ swage on top of unloader. RIH w/new mandrels & pkr. 2/21 CP & TP 750 psi. Removed 6" X 10" csg spool. RIH w/Bkr loc-set pkr.

Shell-Brotherson 1-14B4
(CO Scale)

FEB 26 1979

TD 13,000. PB 12,763. 2/22 CP & TP 450 psi. Bled gas & con't in hole w/prod string. Ran to 9485 & worked to set pkr; would not set. Pmp'd 50 bbls dn csg & 30 bbls dn tbg; pkr set & indicated scale in 7" csg. Installed 5000# tree & tested to 5000#, ok. Turned well over to prod.

Shell-Brotherson-1-14B4
(CO Scale)

TD 13,000. PB 12,763. Gauge not available.
FEB 27 1979

Shell-Brotherson 1-14B4
(CO Scale)

TD 13,000. PB 12,763. Well SI 2/22.
FEB 28 1979

Shell-Brotherson 1-14B4
(CO Scale)

MAR .1 1979

Rept Date	Hrs	BO	BW	Gas Prod	Gas Inj	Press
2/23	24	3	0	759	312	200
2/24	24	75	203	957	774	150

Shell-Brotherson 1-14B4
(CO Scale) MAR 2 1979

TD 13,000. PB 12,763. On 24-hr test 2/25, gas lifted: 121 BO, 879 BW, 1255 Gas Prod, 958 Gas Inj w/100 psi TP.

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On 24-hr test 2/26, gas lifted:
(CO, Scale) 34 BO, 233 BW, 661 Gas Prod, 466 Gas Inj w/100 psi TP.
MAR 5 1979

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On 24-hr test 2/27, gas lifted:
(CO, Scale) MAR 6 1979 21 BO, 277 BW, 957 Gas Prod, 576 Gas Inj w/100 psi TP.

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On various tests, gas lifted:
(CO Scale)
MAR 7 1979

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/1	24	34	356	1297	956	350
3/2	24	38	389	1349	985	300

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On various tests, gas lifted:
(CO Scale)
MAR 8 1979

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/3	24	57	325	886	615	150
3/4	24	56	282	886	447	150

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On various tests, gas lifted:
(CO Scale)
MAR 9 1979

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/5	24	59	305	853	547	150
3/6	24	102	338	1012	585	150

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On 24-hr test 3/7 gas lifted
(CO Scale) MAR 12 1979 41 BO, 254 BW, 1039 Gas Prod & 651 Gas Inj w/150 psi TP.

Shell-Brotherson 1-14B4 TD 13,000 PB 12,763. Gauge not available.
(CO Scale) MAR 13 1979

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On various tests, gas lifted:
(CO Scale)
MAR 14 1979

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/8	24	17	196	957	536	150
3/9	24	14	128	876	405	150
3/10	24	24	101	866	451	150

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. On various tests, gas lifted:
(CO Scale)
MAR 15 1979

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/11	24	11	1	674	392	200
3/12	24	13	3	683	415	175

Shell-Brotherson 1-14B4 TD 13,000. PB 12,763. Gauge not available.
(CO Scale) MAR 13 1979

Shell-Brotherson 1-14B4
(CO Scale)

MAR 19 1979

TD 13,000. PB 12,763. On various tests, gas lifted:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/13	11	15	1	683	494	75
3/14	24	31	11	684	389	100

Shell-Brotherson 1-14B4
(CO Scale)

MAR 20 1979

TD 13,000. PB 12,763. On various tests, gas lifted:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/15	10	1	2	684	514	100
3/16	24	13	15	558	402	100

Shell-Brotherson 1-14B4
(CO Scale) MAR 21 1979

TD 13,000. PB 12,763. On various tests, gas lifted:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/17	24	12	10	499	285	100
3/18	24	26	5	675	425	100

Shell-Brotherson 1-14B4
(CO Scale) MAR 22 1979

TD 13,000. PB 12,763. On 24-hr test 3/19, gas lifted
9 BO, 6 BW, 658 Gas Prod & 482 Gas Inj w/75 psi TP.

Shell-Brotherson 1-14B4
(CO Scale)

MAR 23 1979

TD 13,000. PB 12,763. On various tests, gas lifted:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/20	24	19	1	692	479	100
3/21	24	12	5	809	568	100

Shell-Brotherson 1-14B4
(CO Scale) MAR 26 1979

TD 13,000. PB 12,763. On 24-hr test 3/22, gas lifted:
40 BO, 170 BW, 742 Gas Prod & 455 Gas Inj w/100 psi TP.

Shell-Brotherson 1-14B4
(CO Scale)

MAR 27 1979

TD 13,000. PB 12,763. On various tests, gas lifted:

<u>Rept Date</u>	<u>Hrs</u>	<u>BO</u>	<u>BW</u>	<u>Gas Prod</u>	<u>Gas Inj</u>	<u>Press</u>
3/23	24	26	240	821	489	200
3/24	24	42	249	755	448	200

Shell-Brotherson 1-14B4
(CO Scale)

TD 13,000. PB 12,998. On tests prior to work in
Dec well avg'd 79 BO, 244 BW & 827 Gas Inj. In Jan
well avg'd 99 BO, 156 BW & 541 Gas Inj. In Feb well
avg'd 34 BO, 232 BW & 654 Gas Inj. On test after
work, during 1st part of March, well avg'd 16 BO, 35 BW
& 437 Gas Inj. MAR 28 1979
FINAL REPORT

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(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. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		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 2100' FNL & 750' FEL Section 14		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141 KB	9. WELL NO. 1-14B4
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 Section 14-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"/>	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) _____	

(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: August 14, 1978
BY: P. K. Russell

See attachment

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

SIGNED R. Plautz TITLE Div. Oper. Engr. DATE 8/8/78
(This space for Federal or State use)

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

cc: USGS w/attach for info

ACIDIZE

ALTAMONT

SHELL OIL COMPANY

LEASE BROTHERSON

WELL NO. 1-14B4

DIVISION WESTERN

ELEV 6141 KB

FROM: 7/21 - 8/7/78

COUNTY DUCHESNE

STATE UTAH

UTAH

ALTAMONT

Shell-Brotherson 1-14B4
(Ac dz)

"FR" TD 13,000. PB 12,763. AFE #429277 provides funds to acidz well to remove scale. MI&RU BJ & pmp'd 2000 gals 15% double inhibited acid down tbg @ 1/2 bbls/min to remove scale building in tbg. Let acid set for 1 hr & displaced w/60 bbls prod wtr. RD BJ & left well SION. JUL 21 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. No report.

JUL 24 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. No report.

JUL 25 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 37 BO, 215 BW, 899 MCF gas w/1220 psi inj press. JUL 26 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 32 BO, 89 BW, 1249 MCF gas w/1220 psi inj press. JUL 27 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 76 BO, 361 BW, 1233 MCF gas w/1220 psi inj press. JUL 28 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 19-hr test, gas lifted 98 BO, 426 BW, 1697 MCF gas w/1220 psi inj press. JUL 31 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 219 BO, 672 BW, 1928 MCF gas w/1220 psi inj press. AUG 1 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On various tests, gas lifted:

Date	Hrs	BO	BW	MCF gas	Inj Press
7/29	24	111	910	2484	1220
7/30	24	89	855	1828	1220
7/31	24	48	807	1761	1220

AUG 2 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. On 24-hr test, gas lifted 93 BO, 538 BW, 1410 MCF gas w/1220 psi inj press. AUG 3 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. -On 24-hr test, gas lifted 132 BO,
246 BW, 1813 MCF gas w/1220 psi inj press. AUG 04 1978

Shell-Brotherson 1-14B4
(Ac dz)

TD 13,000. PB 12,763. 7/19 Ac dz'd well w/2000 gals 15%
HCl double inhibited acid. Before work well was avg'g
34 BO & 85 BW daily. After work well avg'd for the last
12 days of July 115 BO & 365 BW. AUG 07 1978
FINAL REPORT

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

SUBMIT TRIPPLICATE*
(Other instructions on
reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
PATENTED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
ALTAMONT

8. FARM OR LEASE NAME
BROTHERSON

9. WELL NO.
1-1484

10. FIELD AND POOL, OR WILDCAT
ALTAMONT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SE14 N614 T2S R4W

12. COUNTY OR PARISH | 18. STATE
Duchesne | Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
SHELL Oil Company

3. ADDRESS OF OPERATOR
PO. Box 831 Houston, Tx 77001 **ATTN: P.G. Gelling** **RM # 6401 WCK**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2100' FNL & 750' FEL ~~SEE W~~

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
6141' KB

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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 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.)*

SEE ATTACHED

REGISTERED
AUG 7 1981

DIVISION OF
OIL, GAS & MINING

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 8-24-81
BY: [Signature]

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

SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 8/12/81

(This space for Federal or State office use)

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

REMEDIAL PROGNOSIS
BROTHERSON 1-14B4
SECTION 14, T2S, R4W
ALTAMONT FIELD, UTAH

Pertinent Data:

Shell's share: 100%

Elevation (KB): 6141'

Elevation (GL): 6121'

TD: 13,000'

BPTD: 12,998' (packer fish at 9978')

Casing: See current status diagram

Liner: See current status diagram

Tubing: 2-7/8", EUE, 6.5#. N-80 to 9481'

Packer: 5-1/2" Baker Model "C" fullbore at 9485'

Perforations: 10,309'-12,919' (83 holes)

Artificial Lift: Gas lift

Current Status: Intermittently producing an average 4 BOPD + 4 BWP (50% WC)
+ 11 MCFPD.

Objective: CO, perforate, and stimulate the Wasatch.

Procedure:

1. MIRU. Load hole with clean produced water. Remove tree. Install and test BOPE as per field specs.
2. Pull tubing and 5-1/2" fullbore packer at 9485', laying down gas lift mandrels while coming out.
3. RIH with fishing tools and retrieve fish at 9978'±.
4. RIH with bit or mill. CO 5-1/2" liner to 11,750'±.
5. Run CCL/GR log from 11,750'± to 9900'±.
6. RIH with a 5-1/2" CIBP and 5-1/2" fullbore packer. Set CIBP at 11,750'±. Pressure test plug to 3000 psi. POOH with tubing and 5-1/2" fullbore packer.
7. 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° 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 CNL/GR dated 5-18-72.

8. a. If well can be controlled with water after perforating, run a 5-1/2" fullbore packer on tubing and set at 10,500'±. Test tubing to 6500 psi.
- b. If well cannot be controlled with water after perforating, lubricate in a 5-1/2" Model packer with flapper and set at 10,500'±. Run tubing, latch into packer, and flow well for 1+ day to clean up perms. Kill well with water and continue to step 9.
9. Acid treat perms 10,579'-11,718' (171 new, 37 old) with 21,500 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 100 gallons.
 - c. Pump 500 gallons acid containing 500# benzoic acid flakes.
 - d. Repeat Step (b) 5 more times and Step (c) 4 more times for a total of 6 stages acid and 5 of diverting material (total 21,500 gallons acid and 180 ball sealers).
 - e. Flush with 110 bbls of clean produced water.

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

10. Run RA log from 11,750'± to 10,275'±.
11. a. If a 5-1/2" fullbore packer was used in Step 8, POOH with tubing and packer.
- b. If a 5-1/2" Model "D" packer was used in Step 8, POOH with tubing and seals. RIH and mill out 5-1/2" Model "D".

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>2037 FNL + 2052 FEL SEC. 10</u>		8. FARM OR LEASE NAME <u>BROTHERSON</u>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	9. WELL NO. <u>1-1084</u>
		10. FIELD AND POOL, OR WILDCAT <u>ALTA MONT</u>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>SW 1/4 NE 1/4 T2S R4W</u>
		12. COUNTY OR PARISH <u>DUCHESSNE</u>
		13. STATE <u>UTAH</u>

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 checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <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

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

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

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 346
ISSUED 11/24/81

WELL: BROTHERTON 1-10B4
 LABEL: BROTHERTON 1-10B4
 AFE: 5179R7
 FOREMAN: RIDRIGUEZ
 RIG: WOW #19
 OBJECTIVE: CO AND ACIDIZE WASATCH
 AUTH. AMNT: 80000
 DAILY COST: 2100
 CUM COST: 8700
 DATE: 7-16-17-18-20-81
 ACTIVITY: 7-16-81 ACTIVITY: RU WOW #19 1400# ON TBG 1200#
 02 ON CSG. LEFT WELL BLEEDING THROUGH TREATER OVERNIGHT.
 03 300# ON TBG AND CSG AS OF 7:00 A.M. 7-17-81 MAKING
 04 OIL THROUGH THE TREATER.
 05 7-17-81 ACTIVITY PUMPED 400 BRLS PRODUCED WTR DOWN
 06 TBG AND CSG INSTALLED BOPS UNSEATED BAKER FH-1 PKR
 07 @10700 FT. PULLED SEAL ASSEMBLY FROM DAB PKR @11180
 08 PULLED OUT OF HOLE WITH TBG LAID DOWN 12 GAS LIFT
 09 MANDRELS. RIH W/MILL AND WONDER TOOL ON 2 7/8 TBG
 10 TO TOP OF 7 5/8 LINER TOP @5381 FT. ABLE TO GET 20 FT.
 11 INTO LINER - PULLED BACK OUT OF LINER AND SDON.
 12 7-18-81 ACTIVITY: TROUBLE GETTING INTO TOP PART
 13 OF LINER. ONCE THROUGH LINER TOP NO SCALE SEEMED
 14 TO BE PRESENT - FINISHED RIH W/MILL TO 4175 POOH
 15 W/TBG AND MILL - RIH W/7 5/8 FULLBORE PKR ON 2 7/8 IN
 16 TBG TO TOP OF 7 5/8 LINER TOP 5381 FT. LEFT WELL
 17 SI OVER WEEKEND.
 18 7-20-81 ACTIVITY: FINISHED RIH W/BAKER FULLBORE PKR
 19 SET PKR @10685 FT. PUMPED 120 BRLS HOT WTR DOWN
 20 TBG. DROPPED SU FILLED CSG W/PRODUCED WTR. PT TBG TO 4500#
 21 PT CSG TO 2500# HELD OK PULLED SU INSTALLED 10000#
 22 TREE READY TO ACIDIZE IN A.M.

LABEL: -----
 DAILY COST: 40971
 CUM COST: 51671
 DATE: 7-21-81
 ACTIVITY: 7-21-81 RIG UP DOWELL A.T. PERFS. 10809- 11589 FT.
 02 W/20000 GALS. 7 1/2% HCL AS FOLLOWS:
 03 1.- PUMPED 1000 GALS. HCL. 2.- 4000 GALS.
 04 HCL DROPPING 1 BALL SEALER EVERY 40 GALLONS. 7/8

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 346
ISSUED 11/24/81

05 INCH RCN 1.2 S.G. 3.- 1000 GALS. HCL WITH 1#
 06 PER GAL P.A. FLAKES . REPEATED STEP 2 THREE
 07 TIMES AND STEP 3 TWO MORE TIMES FOR A TOTAL OF
 08 400 PAIL SEALERS . AVG. RATE 15 BPM AVG 8200# PSI
 09 FLUSHED WITH 110 BBLs. PRODUCED WATER 8.5 BPM
 10 2300# HELD 2500# ON BACKSIDE THROUGHOUT TREATMENT
 11 SEVERAL GOOD BREAKS DURING TREATMENT ISIP 0 PSI
 12 RIG UP OWP RAN RA LOG FROM 10750-10650 FT. PERE.
 13 INTERVALS 10800-10950 FT. GOOD RESULTS. 10950-
 14 11070 VERY LITTLE TREATMENT . 11070-11300 FT. NO
 15 P.A. TRACE. 11300-11430 FT. TRACES OF P.A. MATERIALS
 16 11430-11750 FT. GOOD TRACES OF P.A. MATERIALS
 17 RIG DOWN OWP. WELL STILL ON VACUUM. INSTALLED
 18 BOPS UNSEATED BAKER FULL BORE PKR. STARTED POOH
 19 WITH TRG. S.D.O.N.

LABEL: -----
 DAILY COST: 4952
 CUM COST: 58523
 DATE: 7-22-81
 ACTIVITY: 7-22-81 FINISHED P.C.O.H. WITH PKR. AND TRG.
 02 GO IN HOLE WITH BAKER FULL BORE PKR. AND GAS LIFT
 03 MANDRELS. SET PKR. AT 10713 FT. REMOVED BOPS.
 04 RIG DOWN WDW#19.
 05 NOTE: WHEN THEY BRING WELL ON THERE WILL BE
 06 PROD. TESTS TURNED IN.

LABEL: 810727
 DAILY COST: 58523
 CUM COST: 58523
 DATE: 7-25-26-81
 ACTIVITY: 7-25-81 ACTIVITY: HRS 24-OIL 23-WTR 257-MCF GAS 330
 02 CHOKE 35/64-FTP 200-CP 1170-INJ GAS 501
 03 -----
 04 7-26-81 ACTIVITY: HRS 24-OIL 25-WTR 257-MCF GAS 892
 05 CHOKE 35/64- FTP 300-CP 1170-INJ GAS 502

LABEL: 810728
 DAILY COST: 810728
 CUM COST: 58523
 DATE: 7-27-81
 ACTIVITY: 7-27-81 ACTIVITY: HRS 24-OIL 25-WTR 308-MCF GAS 593

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 346
ISSUED 11/24/81

02 CHOKE 35/34-FTP 100-CP 1180-INJ GAS 523

LABEL: 810730

DAILY COST: 810730

CUM COST: 58523

DATE: 7-28-81

ACTIVITY: HRS. 24 - BBLs. OIL 25 - BBLs. WTR 354 - MCF 808

02 CHOKE 35/34 - FTP 200 - CP 1200 - INJ. GAS 506

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. PATENTED																				
2. NAME OF OPERATOR SHELL OIL COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR P.O. Box 831 Houston, Tx 77001 ATTN: P.G. GELLING RM #6459 WCK		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 2100' FNL + 750' FEL SEC. 14		8. FARM OR LEASE NAME BROTHERSON																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141' KB	9. WELL NO. 1-1434																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT ALTAMONT																				
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17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

SEE ATTACHED

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

SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 1-20-82
W. E. N. KELLDORF

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

ALTIAMONT OPERATIONS
 DAILY COMPLETIONS AND REMEDIALS REPORT
 WELL HISTORY FOR WELL 353
 ISSUED 11/24/81

WELL: BROTHERRSON 1-14B4
 LABEL: FIPST REPORT
 AFE: 579817
 FOREMAN: K.C. LAROSE
 RIG: WOW#22
 OBJECTIVE: CO PERFORATE AND STIMULATE
 AUTH. AMNT: 110000
 DAILY COST: 3950
 CUM COST: 3950
 DATE: 9-3-81
 ACTIVITY: 9-3-81 ACTIVITY: AFE 579817 PROVIDES FUNDS TO
 02 CO PERFORATE AND STIMULATE THE UPPER WASATCH.
 03 MIRU. REMOVED WELLHEAD AND PUT BOP ON.
 04 PUMP PROD. WATER DOWN TBG. TO KILL WELL.
 05 RELEASED PKR. STARTED OUT OF HOLE WITH PKR. GAS
 06 LIFT MANDRELS AND TBG. PKR. DRAGGING REAL BAD.
 07 S.D.O.N.

LABEL: 810908
 DAILY COST: 4200
 CUM COST: 10120
 DATE: 9-4-81
 ACTIVITY: 9-4-81 ACTIVITY: FINISHED PULLING OUT OF THE HOLE
 02 W/PKR AND LAYING DOWN GAS LIFT MANDRELS DRAGGED
 03 REAL BAD PUT ON A 65/8 IN. MILL STARTED IN HOLE SOON
 04 9-5-81 ACTIVITY: RIH W/TBG AND 65/8 IN. MILL TAGGED
 05 SCALE @ 6860 PUT ON POWER SWIVEL MILL FOR 3 FT. FELL
 06 THROUGH RUN DOWN TO 9657 FT. TOP OF 51/2 IN. LINER
 07 PUMP WTR DOWN TBG LAYED PWR SVL BACK LAYED DOWN 1ST
 08 PULLED 13 STRANDS OUT SOON
 09 9-6-81 STATUS: SUNDAY SHUT DOWN
 10 9-7-81 STATUS: HOLIDAY SHUT DOWN

LABEL: 810909
 DAILY COST: 3950
 CUM COST: 14000
 DATE: 9-8-81
 ACTIVITY: RIG UP HOT OIL TRUCK PUMPED HOT WTR DOWN THE BACK
 02 SIDE AND DOWN THE TUBING. RIG UP WIRELINE TRUCK
 03 STARTED DOWN THE TUBING WITH A WAX CUTTING KNIFE -
 04 GOT TO 4320 HIT SCALE - POOH. HAD HOT OIL TRUCK

ALTIAMONT OPERATIONS
 DAILY COMPLETIONS AND REMEDIALS REPORT
 WELL HISTORY FOR WELL 353
 ISSUED 11/24/81

05 PUMP 2 BARRELS OF ACID DOWN TUBING - RUN KNIFE BACK
 06 IN. GOT DOWN TO 4420 FT. POOH. RIG WIRELINE TRUCK
 07 DOWN RIG HOT OIL TRUCK DOWN POOH WITH TURING AND
 08 MILL. TOOK 4-5/8 IN. MILL OFF - PUT ON A 4-5/8 IN. MILL
 09 RIH WITH 60 STANDS. SDON.

LABEL: -----
 DAILY COST: 3350
 CUM COST: 21200
 DATE: 9-9 AND 9-10-81
 ACTIVITY: 9-9-81 DAILY COST 3350 CUM. COST 17850.
 02 9-9-81 ACTIVITY: RUN IN LINER WITH 4 5/2 INCH
 03 MILL WENT DOWN TO 9992 FT. ON TOP OF 2 3/8 INCH
 04 SWAGE AND UNLOADER. DID NOT HIT ANY SCALE P.O.O.H.
 05 TOOK 4 5/8 INCH MILL OFF PUT ON WASH OVER SHOE
 06 R.I.H. CLEANED OVER 2 3/8 INCH SWAGE AND UNLOADER
 07 PULLED UP OUT OF LINER. S.D.O.N.
 08 9-10-81 STATUS: FISH 5 1/2 INCH PKR.
 09 9-10-81 DAILY AND CUM. COST ABOVE ARE THE COSTS
 10 FOR THE 9-10-81.
 11 9-10-81 ACTIVITY: P.O.O.H. WITH WASH PIPE AND
 12 TRG. LAYED WASH PIPE DOWN PUT ON A 3 1/16 INCH
 13 ID OVERSHOT AND BUMPER SUB. R.I.H. LATCHED ON TO
 14 FISH AT 10027 FT. P.O.O.H. LAYED DOWN 5 1/2 INCH
 15 PKR. WITH UNLOADER OVERSHOT AND BUMPER SUB. PUT
 16 ON 4 5/8 INCH MILL. RUN IN TO TOP OF LINER.
 17 S.D.O.N.

LABEL: 810914
 DAILY COST: 7200
 CUM COST: 28400
 DATE: 9-11-81 AND 9-12-81
 ACTIVITY: 9-11-81 ACTIVITY: RUN IN LINER WITH 45/8 IN. MILL
 02 TAGGED FILL @ 11580 FT. PICKED POWER SWIVEL MILLED
 03 DOWN TO 11610 WOULD NOT GO ANY FURTHER POOH CLEANED
 04 UP MILL AND TRG RUN IN TO TOP OF LINER SDON
 05 9-12-81 ACTIVITY: RUN IN LINER WITH 45/8 IN. MILL
 06 TAGGED UP @ 11610 PICKED UP POWER SWIVEL MILLED DOWN
 07 TO 11714 FT. WELL ACTED LIKE IT WAS TRYING TO KICK ON
 08 US PULLED UP OUT OF THE LINER SDON
 09 9-13-81 ACTIVITY: SUNDAY SHUT DOWN

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 353
ISSUED 11/24/81

LABEL:	810915
DAILY COST:	4750
CUM COST:	32750
DATE:	9-14-81
ACTIVITY:	9-14-81 ACTIVITY: BLED WELL OFF POOH W/TRG AND MILL
02	RIG UP OWP RIH TO RUN A CCL GR LOG GOT TO 11074 FT.
03	HIT SOMETHING HARD TRY TO GET DOWN 3 TIMES COULD NOT
04	POOH RIG OWP DOWN PUT ON A 4 5/8 IN. MILL RUN IN HOLE
05	DOWN TO TOP OF LINER SDON
06	9-15-81 STATUS: GO IN AND PUSH PLUG @ 11074 FT.
07	DOWN TO 11714 FT.
LABEL:	810916
DAILY COST:	7200
CUM COST:	39950
DATE:	9-15-81
ACTIVITY:	9-15-81 ACTIVITY: BLED WELL OFF RUN IN LINER W/4 5/8
02	IN. MILL DID NOT TAG ANY THING @ 11074 TAG FILL @
03	11427 FT. PICKED UP POWER SWIVEL MILLED DOWN TO 11471
04	FT. FILL WAS COMING UP FROM BAD CSG @ 11777 POOH
05	RU OWP RIH TO IS @ 11482 RUN CCL AND GR LOG FROM 11482
06	FT. TO 9800 LOG LOOKED GOOD POOH RD OWP SDON
07	9-16-81 STATUS: SET CIBP AND RUN LOG IN 7 5/8 IN.
LABEL:	810917
DAILY COST:	2385
CUM COST:	5585
DATE:	9-16-81
ACTIVITY:	9-16-81 ACTIVITY: BLED WELL OFF RIG UP OWP RIH SET
02	CIBP @ 11430 FT. 20 FT. OF FILL COME ON US OVER-NIGHT
03	POOH RIG OWP DOWN RIH W/RETRIVABLE BREDGE-PLUG AND
04	RETRIVMATIC PKR TESTED TIE BACK SLEEVE TO 2500 PSI
05	PRESSURE WENT FROM 2500 PSI TO 1500 PSI IN 30 SEC BLED
06	PRESSURE OFF RELEASED PKR AND RETRIEVED BP CAME UP THE
07	HOLE SET RBP @ 6895 FT. SET PKR @ 5831 FT. PRESSURED UP
08	TO 2500 PSI HELD THIS IS WHERE CCL LOG SHOWED THREE
09	FOOT PART BLED PRESSURE OFF RELEASED PKR POOH SDON
LABEL:	810918
DAILY COST:	810918
CUM COST:	810918
DATE:	810918

ALTAMONT OPERATIONS
 DAILY COMPLETIONS AND REMEDIALS REPORT
 WELL HISTORY FOR WELL 353
 ISSUED 11/24/81

ACTIVITY: *****

02 PKR @ 6831 FT. PRESSURE CHECKED TO 2500 PSI RELEASED

03 PKR WENT DOWN RETRIEVED RBP WENT DOWN HOLE TO 6958 FT.

04 SET RBP CAME UP HOLE AND SET PKR @ 6870 FT. PRESSURE

05 CHECKED TIE BACK SLEEVE PRESSURE WENT UP TO 1700 PSI

06 THEN DROP TO 700 PSI @ 2 1/2 RPM LOOKED LIKE A LEAK RELEASED

07 PKR WENT DOWN AND RETRIEVED RBP WENT DOWN HOLE SET RBP

08 @ 6978 CAME UP HOLE TO 6958 DROP THREE SACKS OF SAND

09 ON TOP OF FISHING HEAD ON RBP PUMPED 35 BBL OF WTR TO

10 SPOT SAND LET SAND SETTLE FOR 1 HR RELEASED PKR PULLED

11 UP HOLE TO 6763 SET PKR RIG UP HALLIBURTON TO SQUEEZE

12 PUMPED 4 BBLs PRESSURE UP TO 2500 PSI @ 1/4 RPM SHUT

13 DOWN RELEASED PKR WENT DOWN AND CIRCULATED THE SAND OFF

14 RBP RIG HALLIBURTON DOWN AND RELEASED RETRIEVED RBP STARTED

15 OUT OF THE HOLE SDON

LABEL: 810921
 DAILY COST: 8750
 CUM COST: 12600
 DATE: 9-18-81

ACTIVITY: 9-18-81 ACTIVITY: BLED WELL OFF POOH W/TBG PKR AND RBP

02 RU OWP RIH CHK TD @ 11430 POOH PUT ON A 3 1/2 IN. GUN RIH

03 PERFORATED FROM 11420 11386 11370 11549 11340 11323 11311

04 11293 11275 11254 11238 11184 11160 11152 11146 10982 20

05 STOPS @ 3 SHOTS PER FT. TOTAL OF 55 NEW HOLES 0 PSI @ START

06 0 PSI @ END POOH CHANGED GUNS RIH PERFORATED FROM 10930 FT.

07 10918 10908 10886 10872 10860 10840 10830 10808 10790 10777

08 70760 10736 10718 10706 10686 10666 10648 10625 10602 20

09 STOPS @ 3 SHOTS PER FT. TOTAL OF 50 NEW HOLES 0 PSI @ START

10 PSI @ END POOH RIG DOWN AND RELEASED PUT ON 5 1/2 IN. FULL-

11 BORE PKR STARTED IN HOLE SDON

LABEL: 810922
 DAILY COST: 3350
 CUM COST: 110376
 DATE: 9-19-21-81

ACTIVITY: 9-19-81 ACTIVITY: BLED WELL OFF RIH W/TBG AND 5 1/2

02 FULLPORE PKR LANDED PKR @ 10503 FT. PUT DO-NUT ON

03 HUNG TBG OFF TOOK BOPS OFF INSTALLED 10000 PSI FRAC

04 TREE RU PUMP TRUCK ON BACK SIDE FILLED BACK SIDE

05 PRESSURE UP TO 2500 PSI RIG UP DOWELL ACIDIZED WELL

06 WITH 21500 GALS OF 7 1/2% ACID AND 110 BBL FLUSH WTR

ALTA MONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 353

ISSUED 11/24/81

07 2000 PSI BAF 180 BALL SEALERS DONE ACID JOB AS PROG CAL-
 08 LED FOR MAX PRESS 8000 PSI MIN PRES 5200 SPI AVG
 09 PRESS 7000 PSI MAX RATE 20 BPM MIN RATE 15 BPM AVG
 10 RATE 18 BPM WELL WENT ON A VACUUM AFTER SHUTING DOWN
 11 RIG DOWELL DOWN AND RELEASED RIG UP OWP RIH RUN A RA
 12 LOG FROM 11430 FT. TO 10275 FT. POOH RIG OWP DOWN AND
 13 RELEASED LOG LOOKED GOOD SOON
 14 9-20-81 STATUS: SUNDAY SHUT DOWN
 15 9-21-81 ACTIVITY: WELL HAD 1500 PSI ON IT BLEED IT
 16 OFF TO THE PIT ALL WE GOT WAS GAS TOOK 3 1/2 HRS
 17 TO BLEED OFF TOOK 10000 PSI FRAC TREE OFF INSTALLED
 18 BOPS RELEASED PKR POOH PUT ON A 5 1/2 IN. 18 LB. FULL-
 19 BORE PKR STARTED IN THE HOLE WHILE PICKING UP GAS LIFT
 20 MANDRELS SOON
 21 9-22-81 ATATUS: RIH AND LAND PKR PUT ON 5000 PSI PRO-
 22 DUCTION TREE PUT BACK ON PRODUCTION

LABEL: 810923

DAILY COST: 1500

CUM COST: 111876

DATE: 9-22-81

ACTIVITY: 9-22-81 ACTIVITY: BLEED WELL OFF FINISHED GOING IN

02 HOLE PICKING UP GAS LIFT MANDRELS LANDED PKR @

03 18000 PSI TENSION PUT ON DO-NUT HUNG TBS OFF TOOK

04 BOPS OFF INSTALLED 5000 PSI TREE HOOKED UP FLOW LINE

05 PUT BACK ON PRODUCTION RIG THE RIG DOWN MOVED TO

06 1-1483 THIS IS THE FINAL RIG REPORT TEST REPORTS WILL

07 FOLLOW

LABEL: 810929

DAILY COST: 810929

CUM COST: 111876

DATE: 9-23-24-25-81

ACTIVITY: 9-23-81 ACTIVITY: HRS 24-OIL 11-WTR 150-MCF GAS 150

02 CHOKE 40/64-INJ GAS 273

03 9-24-81 ACTIVITY: HRS 24-OIL 100-WTR 196-MCF GAS 500

04 CHOKE 40/64-FTP 150-CSG 1220-INJ GAS 306

05 9-25-81 ACTIVITY: HRS 24-OIL 75-WTR 177-MCF GAS 306

06 CHOKE 50/64-FTP 150-CSG 1040-INJ GAS 280

LABEL: FINAL REPORT

DAILY COST: FINAL REPORT

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 353
ISSUED 11/24/81

CUM COST:	111876
DATE:	9-26-27-28-29-81
ACTIVITY:	9-26-81 ACTIVITY: HRS 24-OIL 95-WTR 197-MCF GAS 526
02	CHOKED 50/64-FIP 130-OSG 1040-INJ GAS 374
03	9-27-81 ACTIVITY: HRS 24-OIL 54-WTR 175-MCF GAS 702
04	CHOKED 50/64-FIP 130-OSG 1040-INJ GAS 526
05	9-28-81 ACTIVITY: HRS 24-OIL 49-WTR 183-MCF GAS 821
06	CHOKED 64/64-FIP 240-OSG 1040-INJ GAS 574
07	9-29-81 ACTIVITY: HRS 24-OIL 63-WTR 190-MCF GAS 495
08	CHOKED 64/64-FIP 150-OSG 1010-INJ GAS 390

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

SUBMIT IN TRIPPLICATE*
(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 R.M. # 6459 WOK</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>2100' FNL + 750' FEL SEC. 14</u>		8. FARM OR LEASE NAME <u>BROTHERSON</u>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>6141' KB</u>	9. WELL NO. <u>1-1434</u>
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <u>ALTAMONT</u>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>SE/4 NE/4 T2S R4W</u>
		12. COUNTY OR PARISH <u>DUCHESENE</u>
		13. STATE <u>Utah</u>

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other)	<u>CONVERT TO BEAM</u> <input checked="" type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <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: 6/14/82
BY: [Signature]

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

SIGNED [Signature]
W. F. N. KELLDORF

TITLE DIVISION PROD. ENGINEER

DATE 6-2-82

(This space for Federal or State office use)

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

PROPOSED BEAM PUMPING INSTALLATION
ALTAMONT FIELD

WELL BrotherSON 1-1434 CASING SIZE 1 7/8 " WEIGHT 38.5 #
KB-GL 2141'-2121 ' LINER TOP 9257 SIZE 5 1/2 " WEIGHT 20 #
PACKER _____ DEPTH _____ ' PERFS TOP 10,600 ' BTM 11,420 '
PRESENT WELL STATUS GAS LIFT
REMARKS CONVERT TO BEAM PUMP DUE TO LACK
OF INJECTION GAS COMPRESSION

INSTALL EQUIPMENT AS FOLLOWS:

TUBING 10,500' @ 2 7/8", 1.5#, N-80 EUE
~~ANCHOR~~ OR TUBING ANCHOR SET @ 9800' IN 7 7/8 38.05# N-80 Csg.
GAS ANCHOR Peer box
PUMP SEATING NIPPLE AT 10,500'
PUMP 1.75"
SINKER BARS _____
SUCKER RODS 5250' ' 3/4" WITH STANDARD SIZE C COUPLINGS
2775' ' 7/8" WITH STANDARD SIZE C COUPLINGS
2475' ' 1" WITH SLIMHOLE C COUPLINGS
SUCKER ROD GRADE Oilwell "Electra E"
SUCKER ROD GUIDES Ryton (2 per rod ON ALL 3/4")
PARAFFIN SCRAPERS Ryton (4 per rod ON 1" + 7/8")
ROD ROTATOR Heavy Duty (Huber)
PUMPING UNIT Lufkin 17912-365-128
PRIME MOVER A.E. Sgt. Size "1" 20040-PAR/Mod. Torq. Mtd-981 Rev. R.P.
OPERATE UNIT WITH 128 " STROKE AT 9.5 SPM
REMARKS _____
CALC PUMP STROKE 128 " CALC PUMP DISPL 500 BPD @ 100% EFFIC.
DATE 11-24-81 ENGR _____

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

SUBMIT **TRIPPLICATE***
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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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>2100' FNL + 750' FEL SEC. 14</u>		8. FARM OR LEASE NAME <u>BROTHERSON</u>	
14. PERMIT NO.		9. WELL NO. <u>1-1484</u>	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) <u>6141' KB</u>		10. FIELD AND POOL, OR WILDCAT <u>ALTAMONT</u>	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>SE14 NE14 T2S R4W</u>	
		12. COUNTY OR PARISH <u>DUCHESNE</u>	13. STATE <u>Utah</u>

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"/>
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SEE ATTACHED

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

DATE: 9/21/82
BY: [Signature]

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE DIVISION PROD. ENGINEER DATE 9-7-82
W. E. N. KELLDORF

(This space for Federal or State office use)

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

REMEDIAL PROGNOSIS
BROTHERSON 1-14B4
SECTION 14, T2S, R4W
ALTAMONT FIELD, UTAH

Pertinent Data:

Shell's Share: 100%

Elevation (KB): 6141'
Elevation (GL): 6121'
TD: 13,000'
PBDT: 12,998' (5-1/2" CIBP at 11,430' - casing damage below)
Casing: 13-3/8", 54.5#, K-55 to 310'
 9-5/8", 40#, S-95 to 7100'
 7-5/8", 38#, N-80, 6879'-9921'
Liner: 5-1/2", 20#, N-80 and S00-95, 9657'-11,905'
 3-1/2", 10.3#, N-80, 11,868'-13,000'
Tubing: 2-7/8", 6.5#, N-80, EUE to ±10,500'
Packer: 7-5/8" tubing anchor at ±9800'; poorboy type gas anchor below
Perforations: 10,309'-12,919' (209 holes - 51 below CIBP @ 11,430')
Artificial Lift: Beam pump with 99 - 1", 111 - 7/8" and 210 - 3/4" Oilwell
 "Electra E" rods. 1 3/4" pump at ±10,500'.

Objective: CO and stimulate the Wasatch.

Current Status: 11 B0 + 276 BW + 135 MCF gas.

Procedure:

1. CO 5-1/2" liner to 11,430'± (CIBP). Take two samples of scale from interval 10,309'-11,420' only if samples can be retrieved while reverse circulating and send to I. Yung, WCK 6406.
2. RIH with tubing and 5-1/2" fullbore packer and set packer at 10,200'±.
3. Acid treat perms 10,309'-11,420' (158 old) with 15,000 gallons of 7-1/2% HCl as follows:
 - a. Pump 1000 gallons 7-1/2% HCl.
 - b. Pump 4000 gallons acid, dropping one ball sealer (7/8" RCN with 1.2 S.G.) every 95 gallons.
 - c. Pump 1000 gallons acid containing 1000# benzoic acid flakes.
 - d. Repeat Step (b) 2 more times and Step (c) 1 more time for a total of 3 stages acid and 2 of diverting material (total 15,000 gallons acid and 126 ball sealers).
 - e. flush with 90 bbls of clean produced water containing five gallons/100 bbl Tretolite Xcide 102 Biocide.

- Notes:
- (1) All acid and flush to contain 5 lb. J-120/1000 gallons HCl or equivalent for $\pm 60\%$ friction reduction and 1.0# 20-30 mesh RA sand per 1000 gallons (no RA sand in flush).
 - (2) All acid to contain 3 gallons C-15/1000 gallons HCl for four hours exposure at 210°F and the necessary surfactant (tested for compatibility with formation fluids) and 1 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.
4. Run RA log from CIBP to 10,100'±.
 5. a. If well flows, release rig and put on production. When well can be controlled with water, move in rig and proceed to Step 6.
 - b. If well does not flow, continue with Step 6.
 6. POOH with tubing and packer.
 7. Continue with lease maintenance operations.

Requested By L. L. Lutzen

Approved *[Signature]*
EAO D. LAUMBACH

LLL:SJP
8/18/82

Date 8/18/82

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. PATENTED
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 831 Houston, Tx 77001 ATTN: P.G. GELLING RM. # 6459 WCK		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 2100' FNL + 750' FEL SEC. 14		8. FARM OR LEASE NAME BERTHERSON
14. PERMIT NO.		9. WELL NO. 1-1434
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 641' KB		10. FIELD AND POOL, OR WILDCAT ALTRAMONT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE 1/4 NE 1/4 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"/>	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 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) <u>CONVERT TO BEAM</u> <input checked="" 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 ATTACHED

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

SIGNED W. F. N. KELL DORF TITLE DIVISION PROD. ENGINEER DATE 9/20/80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 393
ISSUED 08/25/82

WELL: BROTHERSON 1-14B4
 LABEL: FIRST REPORT
 AFE: 524262
 FOREMAN: R.G. THOMPSON
 RIG: WOW 19
 OBJECTIVE: INSTALL BEAM PUMP EQUIPMENT.
 AUTH. AMNT: 160000
 DAILY COST: 5500
 CUM COST: 5500
 DATE: 6-26-82
 ACTIVITY: FIRST REPORT ON AFE 524262 WHICH PROVIDES FUNDS
 02 IN THE AMOUNT OF 160000 TO INSTALL BEAM PUMPING
 03 EQUIPMENT ON THE BROTHERSON 1-14B4.
 04 PICK UP A 5/8 INCH. MILL AND C O TOOL. RIH AND
 05 CO TO 11430 FT. POOH WITH TBG. AND TOOLS LAYING
 06 DOWN 24 JTS. TBG. RIH WITH 2000 FT. KILL PIPE.
 07 SHUT DOWN FOR WEEKEND.
 08 DATE 6-28-82 STATUS RIH W/ TBG. AND ANCHOR.

LABEL: ----
 DAILY COST: 4600
 CUM COST: 10100
 DATE: 6-28 AND 6-29-82
 ACTIVITY: 6-28-82 ACTIVITY: POOH W/KILLPIPE. PICK UP 5 1/2
 02 INCH ANCHOR CATCHER AND SEAT NIPPLE. RIH W/TBG. AND
 03 ANCHOR. SET ANCHOR AT 10518 FT. SEAT NIPPLE AT
 04 10488 FT. LAND TBG. MIRU SUN WIRELINE UNIT.
 05 RIH W/WAX CUTTING TOOLS. COULD NOT GET BELOW 8500 FT.
 06 POOH. PICK UP 2 INCH KNIFE. RIH TO 8500 FT. STILL
 07 COULD NOT GET DOWN. POOH. PICK UP SCALE CHIPPER
 08 RIH CHIP TO 10000 FT. POOH. S.D.O.N.
 09 6-29-82 STATUS: SPOT ACID IN TBG.

LABEL: ----
 DAILY COST: 5200
 CUM COST: 15300
 DATE: 6-29 AND 6-30-82
 ACTIVITY: 6-29-82 ACTIVITY: PUMP 2000 GAL. HCL DOWN TBG.
 02 FOLLOW W/20 BBLs WTR. LET SET FOR 2 HRS.
 03 DISPLACE W/100 BBLs WTR DOWN TBG. AND 200 BBLs
 04 DOWN CSG. MIRU SUN WIRELINE UNIT. RIH W/FULL GAUGE WAX

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 393
ISSUED 08/25/82

05 CUTTING KNIFE TO 10500 FT. POOH R.D. SUN. R.U. TO
06 RUN RODS. PICK UP 1 1/2 INCH PUMP. PICK UP AND
07 RIH W/ 3/4 INCH AND 7/8 INCH AND 48 1 INCH RODS.
08 S.D.O.N. 6-30-82 STATUS: RUN REMAINING RODS.

LABEL: -----
DAILY COST: 4000
CUM COST: 19300
DATE: 6-30 AND 7-1-82
ACTIVITY: 6-30-82 ACTIVITY: PICK UP REMAINING RODS
02 RIH. W/RODS AND PUMP. SEAT PUMP. TEST TBG. WOULD NOT HOLD
03 UNSEAT PUMP POOH W/RODS AND PUMP. R.U. TO PULL
04 TBG. RELEASE ANCHOR POOH W/TBG S.D.O.N.
05 7-1-82 STATUS: HYDROTEST TBG IN HOLE.

LABEL: -----
DAILY COST: 3800
CUM COST: 23100
DATE: 7-1-2-82
ACTIVITY: MIRU FOUR STAR HYDROTEST UNIT. HYDROTEST TBG. IN
02 HYDROTEST TBG IN HOLE TESTING TO 6500 LBS.
03 HAD TROUBLE W/PARAFFIN IN TBG. TEST ALL BUT 30
04 STDS IN HOLE.
05 FINISH HYDROTESTING TBG. IN THE HOLE. SET ANCHOR
06 LAND TBG. RIG UP TO RUN RODS. RIH WITH 1 1/2 INCH
07 RIH WITH 1 1/2 IN. PUMP AND RODS. SEAT PUMP.
08 INSTALL WELLHEAD EQUIPMENT. TEST PUMP TO 500 LBS.
09 O.K. CLAMP OFF RODS. RIG DOWN WOW 19 AND MOVE.
10 REPORT AND COSTS ARE FOR WORK ONLY. THIS IS LAST
11 NO TEST DATA EVEN THOUGH THIS IS THE LAST WORK
12 REPORT AS WE ARE WAITING ON INSTALLATION OF BEAM
13 PUMP.

LABEL: FINAL REPORT
CUM COST: 26100
DATE: 7-31 THRU 8-6-82
ACTIVITY: THE RIG MOVED OFF ON 7-2-82. THEY WERE WORKING ON
02 THE CEMENT PAD AND SETTING P.U. UP. THE WELL
03 WAS ON THE 7-30-82 BUT IT WAS HEAVY ON THE RODS.
04 7-31-82 53 OIL 223 WTR 328 MCF GAS 120 TBG PSI
05 64/64 CHOKE. 8-1-82 157 OIL 80 WTR 333 MCF GAS
06 100 TBG PSI 8-2-82 48 OIL 378 WTR 135 MCF GAS

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 393
ISSUED 08/25/82

07	8-3-82	42 OIL	215 WTR	135 MCF	120 TBG	PSI	8-4-82
08	0 OIL	255 WTR	135 MCF	100 TBG	PSI	8-5-82	0 OIL
09	311 WTR	135 MCF	GAS	120 TBG	PSI	8-6-82	0 OIL
10	319 WTR	135 MCF	GAS	100 TBG	PSI.		

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. Patented																				
2. NAME OF OPERATOR Shell Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR P.O. Box 831, Houston, Tx 77001 ATTN: C.O. Collins 6467WCK		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 2100' FNL & 750' FEL Sec 14		8. FARM OR LEASE NAME Brotherson																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141' KB	9. WELL NO. 1-14 B4																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Altamont																				
<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 type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input checked="" 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 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"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 T2S R4W
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		12. COUNTY OR PARISH 18. STATE Duchesne Utah																				

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

See Attached

18. I hereby certify that the foregoing is true and correct
 W. E. N. KELLDORF
 SIGNED *W. E. N. Kelldorf* TITLE Div. Prod. Engineer DATE 12/16/62

(This space for Federal or State office use)

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

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 399
ISSUED 10/26/82

WELL: BROTHERSON 1-14B4
 LABEL: FIRST REPORT
 AFE: 576357
 FOREMAN: BARRY THOMPSON
 RIG: WDW 26
 OBJECTIVE: CO. AND STIMULATE
 AUTH. AMNT: 45000
 DAILY COST: 9400
 CUM COST: 9400
 DATE: 820820
 ACTIVITY: AFE 576357 PROVIDES FUNDS OF 45000 TO CO. AND STIM.
 02 THE WASATCH. RIH WITH 4 5/8 IN. MILL AND CLEAN OUT
 03 TOOL. HIT BRIDGES OF SCALE WHILE GOING THROUGH
 04 LINER TD AT 11430 FT. STARTED OUT OF HOLE SDON.
 05 DATE 8-18-82 FINISHED COMING OUT OF HOLE WITH
 06 MILL AND CLEAN OUT TOOL. RIH WITH 5 1/2 IN. MT.
 07 STATES PKR. SET PKR. AT 10246 FT. WITH 20000 LB.
 08 TENSION. TESTED BACKSIDE TO 1500 LBS. SDON.
 09 DATE 8-19-82 REMOVE BOP PUT ON 5000 LB. TREE AND
 10 TREE SAVER. RIG UP NOWSCO. ACIDIZE ACCORDING TO
 11 PROG.
 12 MAX. PRESS. 8000 MAX. RATE 21
 13 AVE. PRESS 7500 AVE. RATE 19
 14 MIN. PRESS 5000 MIN. RATE 15
 15 ISIP 0 CSG. 1500
 16 5 MIN. 0 ACID 360 BBLs.
 17 10 MIN. 0 FLUSH 100 BBLs. BALLS 126
 18 15 MIN. 0 TOTAL 460 BBLs. BAF 3000
 19 20 MIN. 0
 20 RIG DOWN NOWSCO RIG UP OWP RAN RA LOG FROM 11303
 21 TO 10000 FT. PULLED OUT OF HOLE WITH OWP. POOH
 22 W/ PKR. SDON.

LABEL: ----
 DAILY COST: 33150
 CUM COST: 75150
 DATE: 8-31-82
 ACTIVITY: 8-31-82 ACTIVITY: THIS IS A CONTINUATION OF AFE
 02 576357. R.U. NOWSCO. ACIDIZE AND SQUEEZE SCALE
 03 INHIBITOR. ACID MAX PSI 7500 MAX RATE 14.3 BBL/MIN
 04 AVE PSI 6500 AVE RATE 13 BBL/MIN

ALTAMONT OPERATIONS
DAILY COMPLETIONS AND REMEDIALS REPORT
WELL HISTORY FOR WELL 399
ISSUED 10/26/82

05 126 BALLS 2500 BAF. 15% HCL 285 BBL FLUSH 70 BBL
06 TOTAL 355 BBL WAITED ONE HR. BEFORE STARTING
07 CHEMICAL SQUEEZE.
08 SCALE INHIBOR MAX RATE 13.4 MAX PSI 6000 AVE RATE
09 12.2 AVE PSI 5300. 71 BBLs PRODUCED WTR. W/5
10 DRUM NALCO 4987. 1114 BBL FLUSH PROD. WTR. NO
11 PSI AFTER EACH JOB. R.D. NOWSCO.

LABEL: -----
DAILY COST: 6400
CUM COST: 81550
DATE: 9-1 9-2-82
ACTIVITY: 9-1-82 ACTIVITY RIH W/ TUB AND ANCHOR
02 CATCHER WOULD NOT SET BACK OUT OF
03 HOLE W/TBG ANCHOR CATCHER SDON
04 9-2-82 ACTIVITY FINISHED COMING OUT OF HOLE
05 RIH WITH 4 5/8 INCH MILL CO BAD SPOTS IN LINER
06 SDON

LABEL: -----
DAILY COST: 4500
CUM COST: 86050
DATE: 9-3 THRU 9-6-82
ACTIVITY: 9-3-82 ACTIVITY FINISHED COMING OUT OF HOLE
02 W/ MILL RIH W/ ANCHOR CATCHER AND TBG SET
03 ANCHOR CATCHER AT 10518 FEET STARTED IN
04 HOLE W/ PUMP AND RODS SDON 9-4-82 ACTIVITY FINISHED
05 RUNNING RODS COULD NOT START PUMPING UNIT
06 FOUND BAD CRACK IN WRIST PIN HOUSING SDON
07 9-5-82 SDON SUNDAY 9-6-82 SDON LABOR DAY

LABEL: FINAL REPORT
DAILY COST: FINAL REPORT
CUM COST: 86050
DATE: 9-9 THRU 9-15-82
ACTIVITY: TBG CHOKE IS ON A 64 UNLESS OTHERWISE
02 STATED 9-9-82 OIL 52 WTR 267 MCF 16 TBG 100
03 9-10-82 OIL 44 WTR 322 MCF 16 TBG 140 9-11-82
04 OIL 30 WTR 297 MCF 16 TBG 100 9-12-82 OIL 10
05 WTR 271 MCF 16 TBG 100 9-13-82 OIL 52 WTR
06 304 MCF 16 TBG 110 9-14-82 OIL 52 WTR 290 MCF 160
07 TBG 120 9-15-82 OIL 14 WTR 300 MCF 160 TBG 120

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

7

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <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 PO BOX 831 HOUSTON TX 77001		7. UNIT AGREEMENT NAME
ATTN: C.O. COLLINS WCK 6467		8. FARM OR LEASE NAME BROTHERSON
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2100' FNL + 750' FEL SEC. 14		9. WELL NO. 1-14134
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141' KB	10. FIELD AND POOL, OR WILDCAT ALTAMONT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/4 NE/4 T2S R4W
		12. COUNTY OR PARISH DUGHESSNE
		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"/>
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) _____	

(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

RECEIVED
FEB 07 1983

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct ...
SIGNED [Signature] F. N. KELL DORF TITLE DIV PROD ENG DATE 2/1/83

(This space for Federal or State office use)

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

REMEDIAL PROGNOSIS
BROTHERSON 1-14B4
SECTION 14, T2S, R4W
ALTAMONT FIELD, UTAH

Pertinent Data:

Shell's Share: 100%

Elevation (KB): 6141'
Elevation (GL): 6121'
TD: 13,000'
PBSD: 12,998' (5-1/2" CIBP at 11,430' - casing damage below)
Casing: 13-3/8", 54.5#, K-55 to 310'
9-5/8", 40#, S-95 to 7100'
7-5/8", 38#, N-80, 6,879'-9,921'
Liner: 5-1/2", 20#, N-80 and S00-95, 9,657'-11,905'
3-1/2", 10.3#, N-80, 11,868'-13,000'
Tubing: 2-7/8", 6.5#, N-80, EUE to 10,518'
Packer: 7-5/8" tubing anchor at 10,518'; poorboy type gas anchor
below
Perforations: 10,309'-12,919' (209 holes, 51 holes below CIBP)
Artificial Lift: Beam pump, 1-3/4" pump

Objective: CO₂ stimulate, and perform scale inhibitor squeeze.

Current Status: Shut in due to scaled pump. December
production - 9 BOPD + 115 BWP (93% water cut) +
26 MCFPD 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.
2. POOH with pumping equipment. If present, take two samples of scale from pump and send to I. Yung, WCK 6588.
3. Pull tubing and 7-5/8" anchor catcher.
4. CO 5-1/2" liner to 11,430'± (CIBP).
5. RIH with tubing and 5-1/2" fullbore packer and set packer at 10,200'±.
6. Remove BOPE. Install and test 10,000 psi WP tree.
7. Acid treat perms 10,309-11,430 (158 old) with 12,000 gallons of 15% HCl as follows:
 - a) Pump 1,000 gallons 15% HCl.

- b) Pump 11,000 gallons acid, dropping one ball sealer, NBS-431 or equivalent (7/8" RCN with 1.3 S.G.) every 70 gallons.
- c) Total 12,000 gallons acid and 160 ball sealers.
- d) Flush with 90 bbls of clean produced water.

- NOTES:
- 1) All acid and flush to contain 5 lb. NFR-44/1,000 gallons HCl or equivalent for $\pm 60\%$ friction reduction.
 - 2) All acid to contain three gallons NAI-167/1,000 gallons HCl or equivalent for four hours exposure at 210°F and the necessary surfactant NNE-257N or equivalent (tested for compatability with formation fluid) and 1/2 gallon Nalco Visco 4987/100 gallons HCl or equivalent.
 - 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) Vary the number of ball sealers used 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.

- 8. After waiting one hour past completion of acid treatment, treat well with scale inhibitor squeeze as follows:
 - a) Thoroughly mix five drums of Nalco Visco 4987 with 3,000 gallons of clean produced water.
 - b) Pump scale inhibitor solution followed by 1,000 bbls. of clean produced water.
 - c) Displace with 100 bbl. clean produced water containing 5 gallons Tretolite Xcide 102 Biocide.
- 9.
 - a) If well is dead after inhibitor treatment, continue with Step 10.
 - b) If well tries to flow, leave it shut in for 24 hours before trying to flow back and continue with Step 10.

- 10. Remove tree. Install and test BOPE.
- 11. POOH with tubing and 5-1/2" fullbore packer.
- 12. Rerun lift equipment and release rig.
- 13. Remove BOPE. Install tree.
- 14. Do not return well to production until at least 24 hours after completing inhibitor squeeze.
- 15. Report well tests on morning report until production stabilizes.

DAV *WFK*
Requested by: *B. D. Carnahan*
B. D. Carnahan

Approved: VERBAL:
R. F. ENGEL

Date: 2/1/83

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

SUNDRY NOTICES AND REPORTS ON WELLS

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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.

7-14B4

10. FIELD AND POOL, OR WILDCAT

Altamont

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 14 T2S R4W
SE/4 NE/4

12. COUNTY OR PARISH 13. STATE

Duchesne

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Shell Oil Company ATTN: B. T. Ellison 6486 WCK.

3. ADDRESS OF OPERATOR
P. O. Box 831 Houston, Tx. 77001

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

2100' FNL & 750' FEL Sec. 14

14. PERMIT NO.

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

KB 6141'

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other) _____

(Other)

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

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

COMPLETED OPERATIONS
(1-29/2-7-83)

Acid treated Wasatch (10,309'-11,430') with 12,000 gallons 15% HCL. Returned well to production.

RECEIVED
FEB 25 1983

DIVISION OF
OIL, GAS & MINING

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

SIGNED

B. T. Ellison

TITLE

Div. Prod. Engr.

DATE

2/22/83

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE:
FIELD:

UTAH
ALTAMONT

WELL: BROTHERSON 1-14B4

LABEL: -----
WO NO.: 584117
FOREMAN: BARRY THOMPSON
RIG: WOW 26
AUTH. AMNT: 70000
DAILY COST: 2036
CUM. COST: 39488
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: CHEM INHIB AND SQUEEZE

DATE(S): 2-7-83
PRESENT STATUS: WELL ON PROD
ACTIVITY: ACTIVITY PUMP 200 BBLs HOT WTR DOWN TBG PICK
02 UP PUMP AND CK STROKE ACTION RIH W/PUMP AND
03 RODS SEAT PUMP AND SPACE OUT FILL TBG W/WTR
04 AND PRESS TEST TO 1000 LBS R/U WALKING BEAM AND
05 HORSE HEAD CLAMP OFF RODS AND CK STROKE RIG
06 DOWN RIG AND EQUIPMENT SDON

STATE: UTAH
FIELD: ALTAMONT

WELL: BROTHERSON 1-14B4

LABEL: FINAL REPORT
WO NO.: 584117
FOREMAN: BARRY THOMPSON
RIG: WOW 26
AUTH. AMNT: 70000
CUM. COST: 39488
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: CHEM INHIB AND SQUEEZE

DATE(S): 2-9 THRU 2-16-83
PRESENT STATUS: WELL IS ON PRODUCTION.
ACTIVITY: THE RIG MOVED OFF THIS LOCATION ON 2-7-83. THE
02 FOLLOWING DATA IS FOR 24 HRS. AND THE CHOKE SIZE IS
03 64/64. 2-9-83 53 OIL 222 WTR 125 PROD. GAS
04 2-10-83 49 OIL 219 WTR 129 PROD. GAS 2-11-83 34
05 OIL 180 WTR 127 PROD GAS. 2-12-83 48 OIL
06 180 WTR 127 PROD GAS 2-13-83 33 OIL 180 WTR
07 125 PROD GAS. 2-14-83 49 OIL 180 WTR 130 PROD
08 GAS 2-15-83 25 OIL 187 WTR 132 PROD GAS
09 2-16-83 25 OIL 243 WTR 127 PROD. GAS
10 THIS IS A FINAL REPORT ON THIS WELL.

STATE: UTAH
FIELD: ALTAMONT

WELL: BROTHERSON 1-14B4
LABEL: FIRST REPORT
WO NO.: 584117
FOREMAN: BARRY THOMPSON
RIG: WOW 26
AUTH. AMNT: 70000
DAILY COST: 14987
CUM. COST: 14987
TYPE OF JOB: REMEDIAL OIL AND GAS
OBJECTIVE: CHEM INHIB AND SQUEEZE

DATE(S): 1-29-83 THUR 2-5-83
PRESENT STATUS: RIG UP ROD EQUIPT
ACTIVITY: AFE 584117 PROVIDES FUNDS 70000 TO CLEAN
02 OUT STIM AND PERFORM A SCALE INHIB ON THE WELL
03 ON 1-29 WOW 26 WAS SENT TO THE WELL TO CHG OUT THE ROD
04 PUMP THE PUMP WOULD NOT UNSEAT THE TBG AND RODS
05 WERE PULLED THE PUMP HAD TO BE CUT OUT OF THE TBG
06 DUE TO SCALE ON 2-2-83 A 4 /18 IN MILL WAS RUN TO THE
07 CIBP AT 11430 FT ON 2-2-83 THE RIG FINISHED POOH W/THE MILL
08 RIH W/A MT STATES 32-A PKR 5 1/2 IN UNLOADER
09 SUB AND PLUS 45 SEAT NIPPLE 2-4-83 ACTIVITY DAILY
10 COST 20627 CUM COST 35614 FINISHED RIH W/PKR SET AT
11 10198 FT LAND TBG REMOVE BOP SET WELLHEAD ON HOOK
12 UP AND FILL BACKSIDE R/U NOWSCO TO PERFORM
13 ACID AND SCALE TREATMENT MAX PRESS 7400 AVG PRESS 4959
14 MAX RATE 21.5 BPM AVG RATE 19 BPM CSG 1500 LBS ISIP 500
15 5 MIN 0 10 MIN 0 15 MIN 0 20 MIN 0 ACID 286 BBLs
16 FLUSH 110 BBLs TOTAL 396 BBLs RD NOWSCO REMOVE
17 TREE PUT BOP ON RELEASE PKR AND START OUT OF HOLE
18 SDON 2-5-83 ACTIVITY DAILY COST 1838 CUM COST
19 37452 MAKE UP 5 1/2 IN MT STATES TBG ANCHOR W/PLUS
20 45 SEAT NIPPLE RIH TO 10521 FT SET TBG ANCHOR W/
21 20000 LBS TENSION REMOVE BOP RU SURFACE EQUIPT
22 RD TBG EQUIPT RU ROD EQUIPT FLUSH TBG W/100 BBLs
23 WTR SDON

Shell Oil Company



P.O. Box 831
Houston, Texas 77001

December 30, 1983

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

Dear Mr. Stout:

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

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

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

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

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

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

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

Yours very truly,

G. M. Jobe

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

GMJ:beb

Enclosures

RD 427805418
RECEIVED

OCT 02 1984

MONTHLY OIL AND GAS PRODUCTION REPORT
 DIVISION OF OIL
 GAS & MINING

Operator name and address:

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

Dickens

N1040

PO BOX 576
 HOUSTON TX 77001
 ATTN: OIL ACCT.

Operator name change

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)
BROTHERSON 1-03B4	4301330048	01525	02S 04W 3	WSTC	23	317	250	403
MORDOCK 1-26B5	4301330049	01530	02S 05W 26	GR-WS	28	1584	2747	6039
BROTHERSON 1-14B4	4301330051	01535	02S 04W 14	GR-WS	31	869	2489	3914
BROTHERSON 1-11B4	4301330052	01540	02S 04W 11	GR-WS	26	1593	3090	9080
CHRISTENSEN 1-33A5	4301330054	01545	01S 05W 33	GR-WS	31	858	70	1060
EVANS UNIT 1-31A4	4301330067	01560	01S 04W 31	GR-WS	31	2431	57	10702
BEEZARD 1-18B4	4301330059	01565	02S 04W 18	WSTC	23	568	581	3422
BROTHERSON 1-02B4	4301330062	01570	02S 04W 2	GR-WS	0	0	0	0
KUST 1-4B3	4301330063	01575	02S 03W 4	GR-WS	21	567	3046	1128
OTE UNIT 1-36A4	4301330069	01580	01S 04W 36	WSTC	22	2753	3538	907
OTE UNIT 1-34A4	4301330075	01585	01S 04W 34	GR-WS	22	486	774	182
MONSEN 1-21A3	4301330082	01590	01S 03W 21	GR-WS	24	646	2264	5926
BROADHEAD 1-21B6	4301330100	01595	02S 06W 21	WSTC	31	1442	1685	455
TOTAL						14112	17931	57128

JT - 2

Comments (attach separate sheet if necessary)

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

Date Sep 28, 1984

[Signature]
 Authorized signature

Telephone 801-484-2262

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR Utex LEASE Fee
WELL NO. Brotherson 1-14134 API 43-013-30051
SEC. 14 T. 2S R. 4W CONTRACTOR _____
COUNTY Duchesne FIELD Altamont

DRILLING/COMPLETION/WORKOVER:

APD WELL SIGN HOUSEKEEPING BOPE
 SAFETY POLL. CONTROL SURFACE USE PITS
 OPERATIONS OTHER

SHUT-IN _____ / TA _____ :

WELL SIGN HOUSEKEEPING EQUIPMENT* SAFETY
 OTHER

ABANDONED:

MARKER HOUSEKEEPING REHAB. OTHER

PRODUCTION:

WELL SIGN HOUSEKEEPING EQUIPMENT* FACILITIES*
 METERING* POLL. CONTROL PITS DISPOSAL
 SECURITY SAFETY OTHER

GAS DISPOSITION:

VENTED/FLARED SOLD LEASE USE

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: no on site storage

REMARKS: pow - pit 1/2 oil 3 cement

ACTION: _____

INSPECTOR: W. J. Moore DATE 11-18-86

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

PERMIT IN TRIPLICATE
(Other instructions on
reverse side)

010989

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.
2. NAME OF OPERATOR ANR Limited Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 80201-		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 See attached list		8. FARM OR LEASE NAME <i>Brotherson</i>
14. PERMIT NO. <i>43-013-30051</i>		9. WELL NO. <i>1-14B4</i>
15. ELEVATIONS (Show whether OF, FT, OR, ETC.)		10. FIELD AND POOL, OR WILDCAT
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <i>Sec. 14 2s 4w</i>
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.)*		12. COUNTY OR PARISH 13. STATE <i>Huchasme</i>

RECEIVED
DEC 31 1986

DIVISION OF
OIL GAS & MINING

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) <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.)	

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 Ki Nelson* TITLE *State Land Mgr.* DATE *12/24/86*

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____



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 Zone	Days Oper	Production Volume		
API Number	Entity	Location	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

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

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

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or to work to a different rock formation. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED
JUN 6 1988

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 ANR Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, Colorado 80201-0749		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2100' FNL & 750' FEL SENE		8. FARM OR LEASE NAME Brotherson	
16. PERMIT NO. 43-013-30051		9. WELL NO. 1-14B4	
15. ELEVATIONS (Show whether DF, ST, OR G.A.) 6141' KB		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR S.W. AND SURVEY OR ABBA Section 14, 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"/>
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) _____	(Other) _____

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

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

Proposed Procedure:

1. Set packer @ 9680'. Fill annulus w/produced water. Pressure test annulus. Fill tbg w/produced water and pressure test CIBP. Repair casing if necessary.
2. Perforate additional 33' (Approx. 10,605-11,419' Wasatch) @ 3 JSPF (99 holes).
3. Acidize Wasatch perforations 10,309-11,420' w/10,000 gal 15% HCL w/additives.
4. Return well to production.

COPY

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

SIGNED Eileen Danni Dey TITLE Regulatory Analyst DATE June 2, 1988

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CUSTOMER'S OF APPROVAL, IF ANY:

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

DATE: 6-7-88
BY: Eileen Dey

8

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
AUG 21 1989
DIVISION OF OIL, GAS & MINING

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 ANR Production Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, CO 80201-0749		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2100' FNL & 750' FEL SE/NE		8. FARM OR LEASE NAME Brotherson
14. PERMIT NO. 43-013-30051	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6141' KB	9. WELL NO. 1-14B4
		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ABBA Section 14, T2S, R4W
		12. COUNTY OR PARISH 13. STATE Duchesne Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <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 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.) *

July 5 - August 11, 1989.
See attached chronological report to repair casing, add perfs and acidize the above referenced well.

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

18. I hereby certify that the foregoing is true and correct
SIGNED Brenda W. Swank TITLE Regulatory Analyst DATE August 16, 1989
Brenda W. Swank

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

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-14B4 (CSG REPAIR, ADD PERFS & ACDZ)

Page 1

ALAMONT/BLUEBELL FIELD

DUCHESNE COUNTY, UTAH

WI: 52.6050% ANR AFE: 62643

TD: 13,000'

CSG: 5-1/2" LINER @ 9,657'-11,905'

3-1/2" LINER @ 11,868'-13,000'

PERFS: 10,309'-12,919' (WASATCH)

CWC(M\$): \$108.3

- 7/5/89 POOH w/2-7/8" tbg & pmp BHA. MIRU. Pmp 100 BW dwn csg. LD HH. Flush rods w/50 BW. POOH w/rod pmp & 86 tapered rod string.
DC: \$3,076 TC: \$3,076
- 7/6/89 Prep to RIH w/4-5/8" mill & CO tools. Rel 7-5/8" TAC. ND WH. NU BOPS. POOH w/TAC & PSN on 2-7/8" tbg. Anchor heavily scaled.
DC: \$2,797 TC: \$5,873
- 7/7/89 Press tst csg & CIBP. SITP 50#. RIH w/4-5/8" mill & CO tools on 2-7/8" tbg. Tag CIBP @ 11,430'. POOH w/4-5/8" mill & CO tools. Start RIH w/5-1/2" pkr on 2-7/8" tbg.
DC: \$4,702 TC: \$10,575
- 7/10/89 POOH w/7-5/8" csg scraper. SITP 200#. Fin RIH w/5-1/2" pkr on 2-7/8" tbg. Set pkr @ 11,424'. Pmpd 80 BW dwn tbg. Reset pkr @ 11,426'. Pmpd 50 BW dwn tbg. Press to 500# & broke dwn. Reset pkr @ 9686'. Fill csg w/250 BW. Est inj rate @ 2 BPM @ 900#. POOH w/5-1/2" pkr. RIH w/7-5/8" csg scraper to LT @ 9657'.
DC: \$4,731 TC: \$15,306
- 7/11/89 POOH w/7-5/8" pkr. SITP 25#. POOH w/7-5/8" csg scraper on 2-7/8" tbg. RIH w/7-5/8" RBP & pkr on 2-7/8" tbg. Set RBP @ 9625'. Set pkr @ 9595'. Fill tbg w/48 BW. Press tst RBP to 2000#/15 mins. OK. Fill csg w/278 BW. Isolate csg leak from 6963' to 7573'. POOH to 6900'.
DC: \$4,007 TC: \$19,313
- 7/12/89 Prep to cmt sqz csg leak. Fin POOH w/7-5/8" pkr on 2-7/8" tbg. Dump bail 4 sxs sd on RBP @ 9625'. RIH w/6-1/2" bit on 2-7/8" tbg to 7578'. Circ hole clean.
DC: \$5,065 TC: \$24,378
- 7/13/89 Tag cmt top. Pmpd 30 BW dwn tbg. Spot 300 sxs C1 "G" balanced plug @ 7578'. POOH w/6-1/2" bit to 5977'. Rev tbg clean w/52 BW. Sqz csg leak to 2000#.
DC: \$7,421 TC: \$31,799
- 7/14-15/89 CO 7" csg. RIH w/6-1/2" bit to cmt top @ 6994'. CO 7" csg to 7424'. Circ hole clean. CO 7" csg to 7505'. Circ hole clean. Press tst 7" csg to 2000#/15 min. Bled off 400#/3 mins. CO 7" csg to 7578'. Circ hole clean. Est inj rate @ 1 BPM @ 1300#. Spot 200 sxs C1 "G" balanced plug across csg leak. POOH to 6427'. Rev circ tbg clean. Bradenhead sqz to 2000#.
DC: \$8,719 TC: \$40,518
- 7/17/89 Prep to resqz csg leak. RIH w/6-1/2" bit to cmt top @ 6834'. CO 7" csg to 7067'. Circ hole clean. CO 7" csg to 7491'. Circ hole clean. Press tst 7" csg to 2000#/15 mins. Bled off 400#/5 mins.
DC: \$2,940 TC: \$43,458
- 7/18/89 Prep to resqz csg leak. CO 7" csg from 7491' to 7578'. Circ hole clean. Est inj rate @ 2 BPM @ 1000#. POOH w/6-1/2" bit on 2-7/8" tbg. RIH w/7-5/8" pkr on 2-7/8" tbg to 5985'.
DC: \$3,948 TC: \$47,406
- 7/19/89 POOH w/pkr. Set 7-5/8" pkr @ 5985'. Cmt sqz csg leak w/200 sxs C1 "G" cmt to 3000#. WOC.
DC: \$5,944 TC: \$53,350

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-14B4 (CSG REPAIR, ADD PERFS & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

Page 2

7/20/89 CO 7-5/8" csg. Rel pkr. POOH w/7-5/8" pkr on 2-7/8" tbg. RIH w/6-1/2" bit on 2-7/8" tbg to cmt top @ 6931'. CO 7-5/8" csg to 7314'. Circ hole clean.
DC: \$2,548 TC: \$55,898

7/21/89 POOH w/6-1/2" bit. CO 7-5/8" csg from 7314' to 7491'. Circ hole clean. Press tst csg to 2000#/15 mins. Bled off 350#/5 mins. CO 7-5/8" csg to 7578'. Circ hole clean. Est inj rate @ 1-1/2 BPM @ 1200#.
DC: \$1,991 TC: \$57,889

7/24/89 POOH w/7-5/8" pkr. POOH w/6-1/2" bit on 2-7/8" tbg. RIH w/7-5/8" pkr on 2-7/8" tbg & set @ 6148'. Sqz csg leak w/250 sxs Cl "G" cmt to 3000#. Rev tbg clean w/55 BW.
DC: \$7,012 TC: \$64,901

7/25/89 CO 7-5/8" csg. Rel pkr. POOH w/7-5/8" pkr on 2-7/8" tbg. RIH w/6-1/2" bit on 2-7/8" tbg. Tag cmt top @ 6717'. CO 7-5/8" csg to 7254'. Circ hole clean.
DC: \$2,715 TC: \$67,616

7/26/89 Prep to resqz csg leak. CO 7-5/8" csg from 7254' to 7491'. Circ hole clean. Press tst csg to 2000#. Bled off 75#/5 mins. CO 7-5/8" csg to 7578'. Circ hole clean. Press tst csg to 2000#. Est inj rate @ 1-1/2 BPM @ 1200#. POOH w/6-1/2" bit on 2-7/8" tbg. RIH w/7-5/8" pkr on 2-7/8" tbg to 6148'.
DC: \$2,728 TC: \$70,344

7/27/89 Prep to resqz csg leak. Set pkr @ 6148'. Sqz csg leak w/15 bbls Aquafix & 100 sxs Cl "G" cmt. Lost bulk truck. Had to abort cmt sqz. Overdisplaced cmt w/16 BW past leak. Rel pkr. Rev out tbg w/55 BW.
DC: \$2,064 TC: \$72,408

7/28/89 POOH w/pkr & tbg. Set pkr @ 6148'. Sqzd 7" csg & 250 sx cmt @ 3000 psi. Rel pkr & rev tbg. POOH to 5500' & re-press to 3000 psi.
DC: \$8,719 TC: \$81,127

7/31/89 Drlg cmt. Rel pkr & POH. TIH. Tag cmt @ 6774'. Drlg cmt to 7008'. Circ hole clean.
DC: \$2,460 TC: \$83,587

8/1/89 Drlg cmt. Drlid cmt to 7085'. Tst csg to 2000# - OK. Drlid cmt to 7192'. Tst csg to 2000#. Lost 50# in 5 mins. Drlid cmt to 7406'. Tst to 2000#. Lost 75# in 5 mins. Cleaned out to 7468' & circ clean.
DC: \$2,790 TC: \$86,377

8/2/89 PU mill & DC's. CO cmt to 7491'. Tst to 2000 psi. Lost 75 psi in 5 min. CO cmt to 7522'. Hit iron. Bit rounded off. Csg looks collapsed. PU tool to mill out.
DC: \$2,081 TC: \$88,458

8/3/89 POOH w/tbg. RIH w/2-1/2" x 6-1/2" pilot mill, 1 - 6-1/2" DC, BS & jars, 3 - 4-3/4" DC's & tbg. Tag @ 7522'. Mill to 7524'. Unable to get deeper. Start POOH.
DC: \$5,830 TC: \$94,288

8/4/89 Prep to resqz csg leak. POOH w/6-1/2" pilot mill & BHA on 2-7/8" tbg. Pilot worn. RIH w/6-1/2" FB mill & BHA on 2-7/8" tbg. Tag @ 7522'. CO 7-5/8" csg to 7578'. Circ hole clean. Press tst csg to 2000#. Est inj rate @ 1 BPM @ 1600#. CO 7-5/8" csg to 7613'. Circ hole clean. Start POOH w/BHA.
DC: \$5,620 TC: \$99,908

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-14B4 (CSG REPAIR, ADD PERFS & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

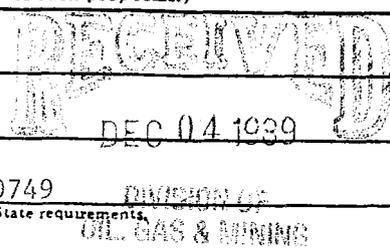
Page 3

- 8/7/89 Swab tst csg leak. POOH w/6-1/2" mill & BHA on 2-7/8" tbg. RIH w/7-5/8" pkr on 2-7/8" tbg to 7190'.
DC: \$2,000 TC: \$101,908
- 8/8/89 Check FL. Set 7-5/8" pkr @ 6720'. RU swab equip. Swbd 12 runs. Rec'd 87 BW. Well swbd dry on last two runs.
DC: \$2,825 TC: \$104,733
- 8/9/89 Fin RIH w/86 tapered rod string. SITP 100#. Checked for fluid entry overnight. None. POOH w/7-5/8" pkr on 2-7/8" tbg. RIH w/2-7/8" tbg BP to 9311'. Tagged obstruction. Land 2-7/8" tbg @ 9300'. ND BOPS. NU WH. Start RIH w/86 tapered rod string.
DC: \$2,274 TC: \$107,007
- 8/10/89 Rel rig. Ran rods & SI well.
DC: \$1,189 TC: \$108,196
- 8/11/89 Shut well in. Drop from report pending further evaluation.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

8

SUNDRY NOTICES AND REPORTS ON WELLS <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. Patented
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
1.	<input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR ANR Production Company		8. FARM OR LEASE NAME Brotherson
3. ADDRESS OF OPERATOR P.O. Box 749, Denver, CO 80201-0749		9. WELL NO. 1-14B4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone 2100' FNL & 750' FEL		10. FIELD AND POOL, OR WILDCAT Altamont
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SE/NE Section 14, T2S, R4W
14. API NO. 43-013-30051	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141' KB	12. COUNTY Duchesne 13. STATE UT



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 checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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

* Must be accompanied by a cement verification report.

See attached procedure performed to repair casing leak and acidize the above referenced well.

OIL AND GAS	
DRN	RNF
JRB	GLH
DTS	SLG
1-TAS	
2-	MICROFILM <input checked="" type="checkbox"/>
3-	FILE

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

SIGNED Brenda W. Swank TITLE Regulatory Analyst DATE 12-1-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

Page 4

BROTHERSON #1-14B4 (REPAIR CSG LEAK & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.6050% ANR AFE: 62643 REV #1
TD: 13,000'
CSG: 5-1/2" LINER @ 9,657'-11,905'
3-1/2" LINER @ 11,868'-13,000'
PERFS: 10,309'-12,919' (WASATCH)
CWC(M\$): \$153.8

10/30/89 MIRU. POOH w/rods.
DC: \$1,464 TC: \$109,660

10/31/89 Attempt to free stuck tbg. Attempt to pull tbg. Stuck. Hot oil & try to
wk free. Unsuccessful.
DC: \$2,616 TC: \$112,276

11/1/89 RIH w/string shot. Shoot at 9265'. Still stuck. RIH w/chem cutter. Cut
tbg @ 9265'. POOH w/tbg. PU & RIH w/5-3/4" OS, 2-7/8" grapple, jars, BS,
4 - 4-3/4" DC's, accelerator.
DC: \$8,331 TC: \$120,607

11/2/89 RIH to insure fish free. Latch onto fish @ 9265'. Set jars off 7 times,
25,000# over tbg wt. Slipped off stub. POOH & LD OS. RIH w/6-3/8" shoe &
5-3/4" WP. Wash over fish to 9300'. Top 20' soft cmt, btm 15' hard cmt.
DC: \$4,989 TC: \$125,596

11/3/89 POOH w/fish. Tag fish @ 9276'. WO fish to 9311'. POOH w/WO pipe & BHA on
2-7/8" tbg. RIH w/5-3/4" x 3-21/32" OS & BHA on 2-7/8" tbg. Latch fish.
Jar loose. Start POOH.
DC: \$4,198 TC: \$129,794

11/6/89 Check RBP. Fin POOH w/BHA & fish on 2-7/8" tbg. Fill hole. Est inj @ 1
BPM @ 1350#. ND 6" BOPS. NU 10" BOPS. RIH w/7-5/8" pkr on 2-7/8" tbg &
set @ 7632'. No set. Reset pkr @ 7694'. Press tst to 1800#. Broke dwn.
Reset pkr @ 7355'. Fill hole w/50 BW. Press tst 7-5/8" csg to 2000#. OK.
Reset pkr @ 9234'. Pmp 100 BW @ 5 BPM on vac. Unable to obtain press.
DC: \$5,151 TC: \$134,945

11/7/89 CO 7-5/8" csg. RIH w/7-5/8" pkr to 9311'. Tag cmt top. Reset pkr @
9300'. Pmpd 125 BW dwn tbg @ 4 BPM on vac. Reset pkr @ 7355'. Fill csg
w/200 BW. Press tst 7-5/8" csg to 2000#. OK. POOH w/pkr on 2-7/8" tbg.
RIH w/6-1/2" bit on 2-7/8" tbg to 9000'.
DC: \$2,872 TC: \$137,817

11/8/89 RIH w/OS. Cont RIH w/6-1/2" bit on 2-7/8" tbg to 9311'. Pmp 600 BW dwn
csg. Caught circ w/100 BW. CO 7" csg to 9312'. Unable to make hole.
Circ hole clean. POOH w/6-1/2" bit. Bit shows on 1" RBP control bar.
DC: \$2,669 TC: \$140,486

11/9/89 Run csg insp logs. RIH w/5-7/8" x 1-1/4" OS & BHA on 2-7/8" tbg to 9311'.
Latch fish & jar loose. POOH w/fish.
DC: \$8,296 TC: \$148,782

11/10/89 RIH w/bull plug on tbg. Run Schlumberger PAT log from 6800' to 9622'.
Unable to run CET log because of gas interference. Prep to RIH w/bull plug
on tbg.
DC: \$6,761 TC: \$155,543

11/13/89 Prep to run rods. SITP 675#. Pmp 100 BW dwn csg. RIH w/BP on 2-7/8" tbg
to 6820'. ND BOPS.
DC: \$1,781 TC: \$157,324

11/14/89 Prep to RDSU. SITP 300#. Pmpd 100 BW dwn tbg. RIH w/86 tapered rod
string. Hung well off. Too windy to RDSU.
DC: \$1,191 TC: \$158,515

11/15/89 RDSU. SI for further eval. Final report.
DC: \$557 TC: \$159,072

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
FEB 01 1990

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill 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 & SERIAL NO. Patented	
2. NAME OF OPERATOR ANR Production Company		6. IF INDIAN ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 30201-0749		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2100' FNL & 750' FEL (SENE) At proposed prod. zone		8. FARM OR LEASE NAME Brotherson	
14. API NO. 43-013-30051		9. WELL NO. 1-14E4	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141' KB		10. FIELD AND POOL, OR WILDCAT Altamont	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14, T2S-R4W	
		12. COUNTY Duchesne	13. STATE Utah

18. 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) _____	
(Other) _____		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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

* Must be accompanied by a cement verification report.

See the attached well data and procedure to run a tieback liner, perforate and acidize the above referenced well.

OIL AND GAS	
DRN	RJF
1- JRS <input checked="" type="checkbox"/>	GLH
DTS	SLS
2-TAS <input checked="" type="checkbox"/>	
3- MICROFILM <input checked="" type="checkbox"/>	
4- FILE	

18. I hereby certify that the foregoing is true and correct
SIGNED Timothy F. Sciba TITLE Administrative Manager DATE 1-29-90

(This space for Federal or State office use)

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

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

DATE: 2-9-90
BY: John R. Baya

See Instructions On Reverse Side

PROCEDURE FOR ADDITIONAL PERFORATIONS

BROTHERSON #1-14B4

Section 14-T2S-R4W
Duchesne County, Utah

November 29, 1989

Well Data

Location: 2100' FNL & 750' FEL
 Elevation: 6147.5' KB, 6121' GL
 Total Depth: 13,000'
 PBTD: 11,430' (CIBP)
 Casing: 13-3/8", 54.5#, K-55, CSA 310'
 9-5/8", 40#, S-95, CSA 7100'
 7-5/8", 39#, N-80, CSA 6879-9921'
 5-1/2", 20#, N-80 & 500-95, CSA 9657'-11,905'
 3-1/2", 10.3#, N-80, CSA 11,868'-13,000'
 Tubing: 2-7/8", 6.5#, 8rd, N-80 w/bull plug @ 10,163'

Tubular Properties:

Type	ID	Drift	Capacity	Burst	Collapse
9-5/8" 40# S-95	8.835	8.679	.0758	6820	4230
7-5/8" 39# N-80	6.625	6.500	.0426	9180	8810
5-1/2" 20# N-80	4.778	4.653	.0221	9190	8830
5-1/2" 20# 500-95	4.778	4.653	.0221	9190	10630
3-1/2" 10.3# N-80	2.922	2.797	.0083	11560	12120
2-7/8" 6.5# N-80	2.441	2.347	.0058	10570	11160

Perforations: Wasatch perforations 10,309'-12,919' (209 holes, 158 open)
 Present Status: Shut in, WO workover.

Procedure

1. MIRU workover rig. POOH w/rods & pump. RU BOPE. POOH w/2-7/8" tubing.
2. PU & RIH w/a wireline set pkr-type RBP and set at ±9750'. Dump 2 sxs of sand on RBP. POOH.
3. RU csg jacks and csg crew. PU & RIH w/5-1/2" tieback seal nipple, 1-jt of 5-1/2" 17# K-55 LT&C with four holes drilled at bottom, 1 - differential fill float collar, ±3980' 5-1/2" 17# K-55 LT&C csg, 5-1/2" x 7-5/8" liner hanger, 3-1/2" x 5-1/2" x-over, ±5640' 3-1/2" N-80 9.3# tbg.
4. Tie into 5-1/2" liner @ ±9657'. Establish circ dwn 5-1/2" 17# liner and 5-1/2" x 7-5/8" annulus. Cmt liner as follows:
 - a. Spearhead w/100 bbls freshwater.
 - b. Pump 300 sxs premium cement w/0.5% Halliburton additive CFR-3 (or equivalent).

- c. Flush w/freshwater.
- d. WOC 24 hrs.
- 5. PU & RIH w/drag bit on 3-1/2" tubing. Drill out float collar and cement. Press tst tieback and cementing holes to 2000 psi.
- 6. PU & RIH w/retrieving head. Wash sand off RBP @ ±9750'. Rls RBP & POOH.
- 7. RU wireline company. Perforate additional 33' of pay @ 3 JSPF (99 holes) as shown on the attached program.
- 8. PU & RIH w/a 5-1/2" 20# treating pkr. Set pkr @ ±10,200'. Acidize perforations from 10,309'-11,420', 257 holes (99 new, 158 old) w/10,000 gals of 15% HCl w/additives and 250 - 1.1 ball sealers. Note: Acid job should be designed to include:
 - a. All fluids to be heated to 150°F.
 - b. Precede acid w/250 gals 3% KCl wtr w/10 gal per 1000 scale inhibitor and 500 gals xylene.
 - c. All water to contain 3% KCl.
 - d. Acidize with 2 stages of 5000 gal each and 1 diverter stage of 1000 gals gelled saltwater with 1/2#/gal each of benzoic acid flakes and rock salt.
- 9. Flow/swab back acid load.
- 10. Kill well w/3% KCl wtr. Run production equipment and return well online.

Brotherson #1-14B4

Infill Wasatch Perforations
(Reference: Schlumberger FDC-CNL dated 5-18-72)

10605	10759	11073
10610	10769	11091
10621	10791	11120
10625	10864	11121
10649	10871	11151
10690	10887	11213
10705	10919	11286
10719	10932	11307
10724	10986	11341
10741	11027	11385
10755	11041	11419

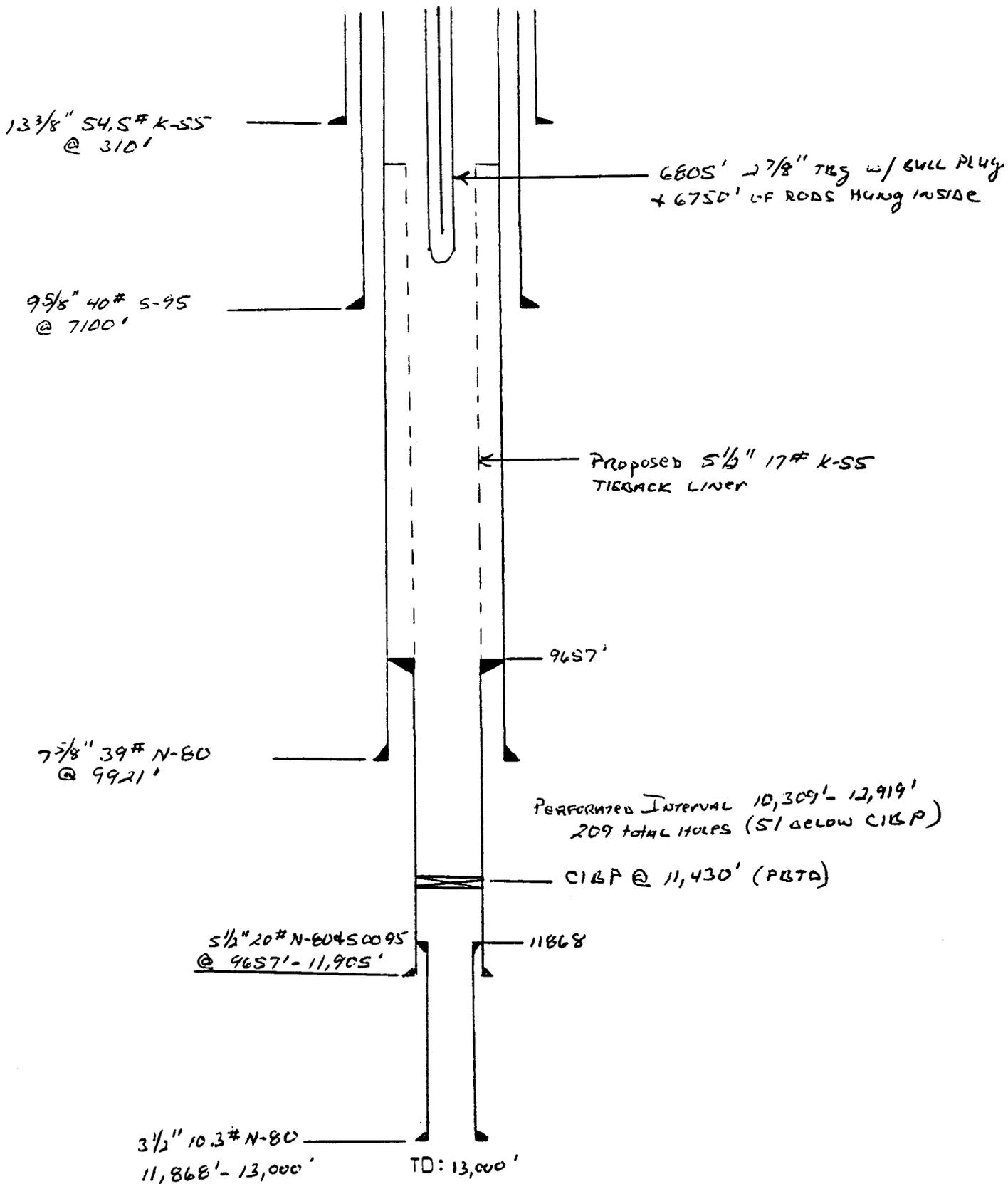
Proposed: 10,605' to 11,419' (33 feet, 3 PF)

RDL
RDL
10/19/87

PRESENT WELLBORE SCHEMATIC

BROTHERSON #1-1424
Duchesne Co, Utah

S.C. Frutch
11/16/89



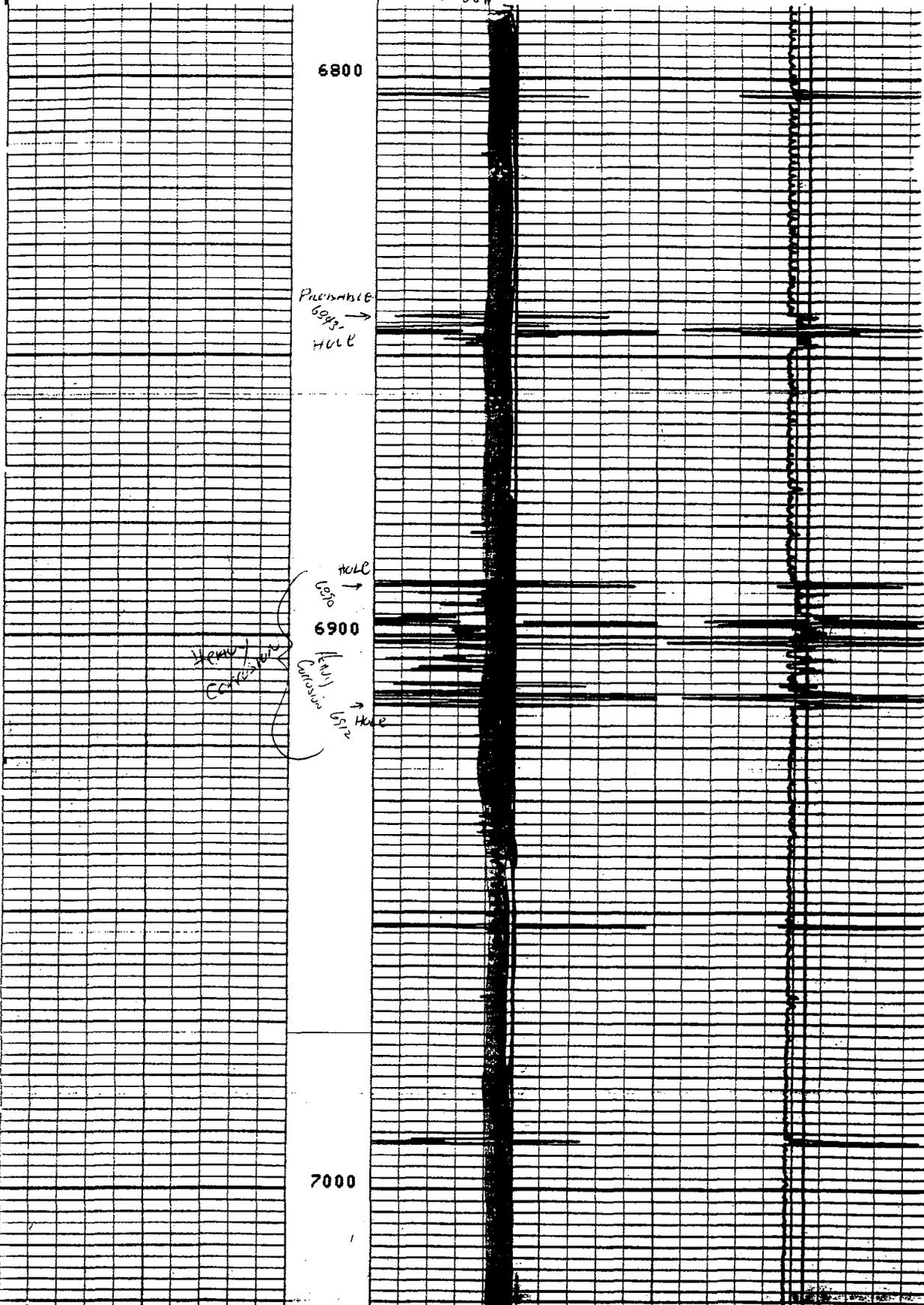
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EMAX		EAVG	
-5.000	5.0000	5.0000	-5.00

CP 27.741

FILE

10/10
 MAX
 10-NOV-89 10:44
 0/6

AVG



7000

7000

OUTSIDE
CONCRETE
M 5/21/13
C 1/21/13
S 1/21/13

7100

He e
M 5/21/13
C 1/21/13
S 1/21/13

7200



7300

Soft
7320
7310
7300
Hole
7311

7400

Hole
7470

OUTSIDE
CORRELATION

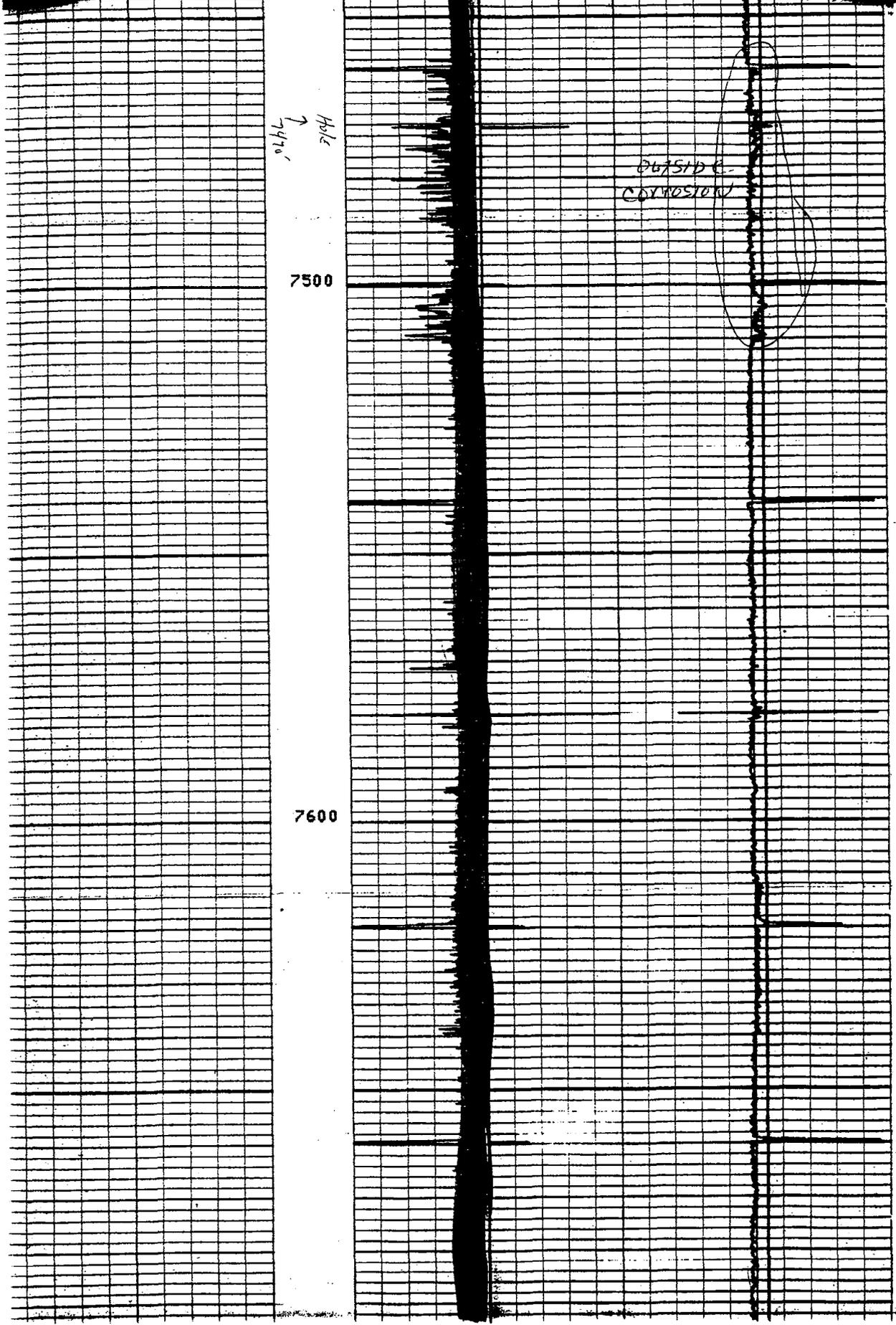
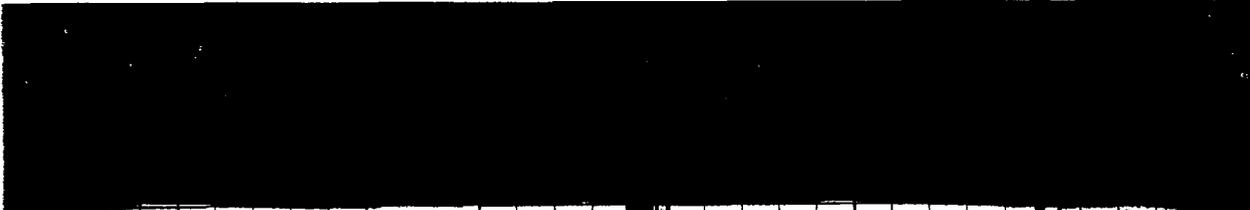
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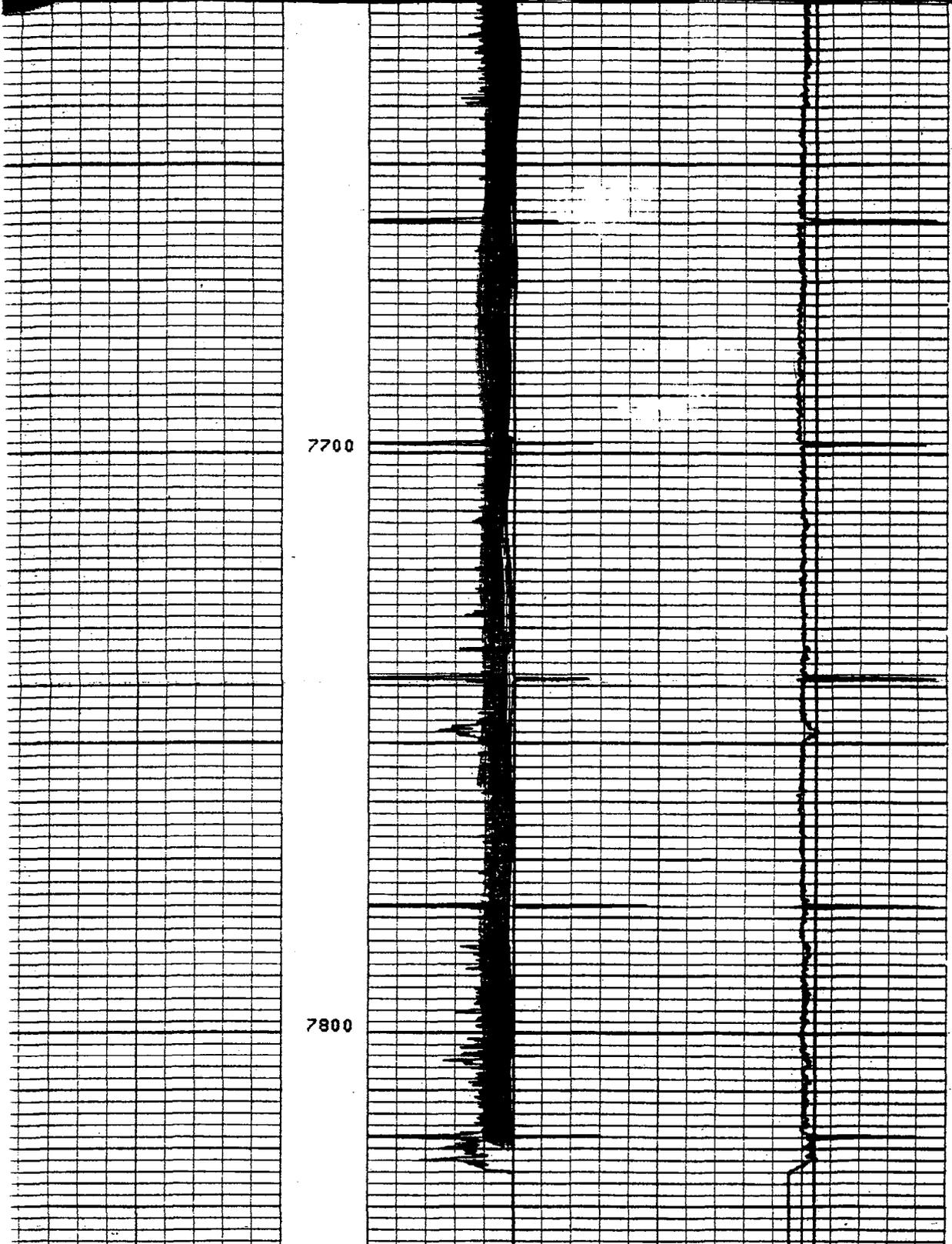
Hole
→ 7478'

7500

7600

OUTSIDE
COSMOS 100



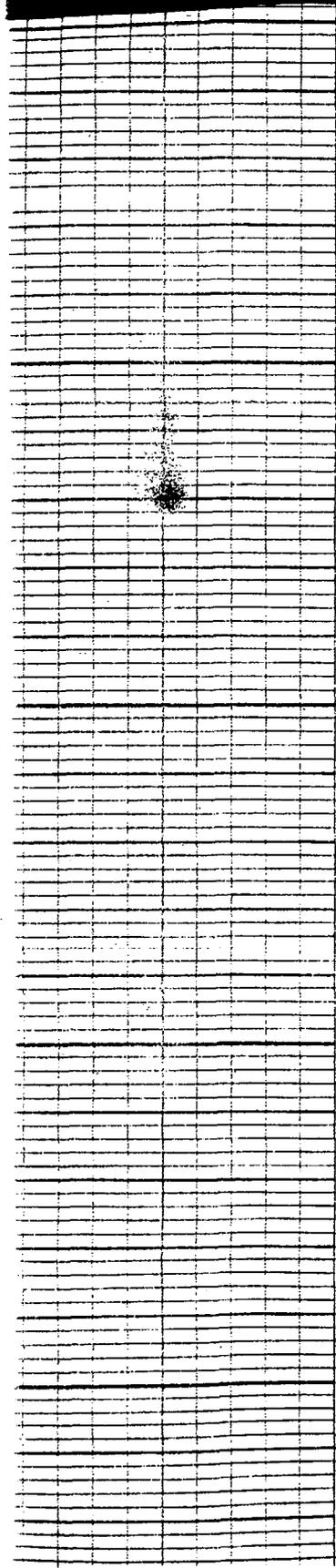


CP 27.741

FILE 4

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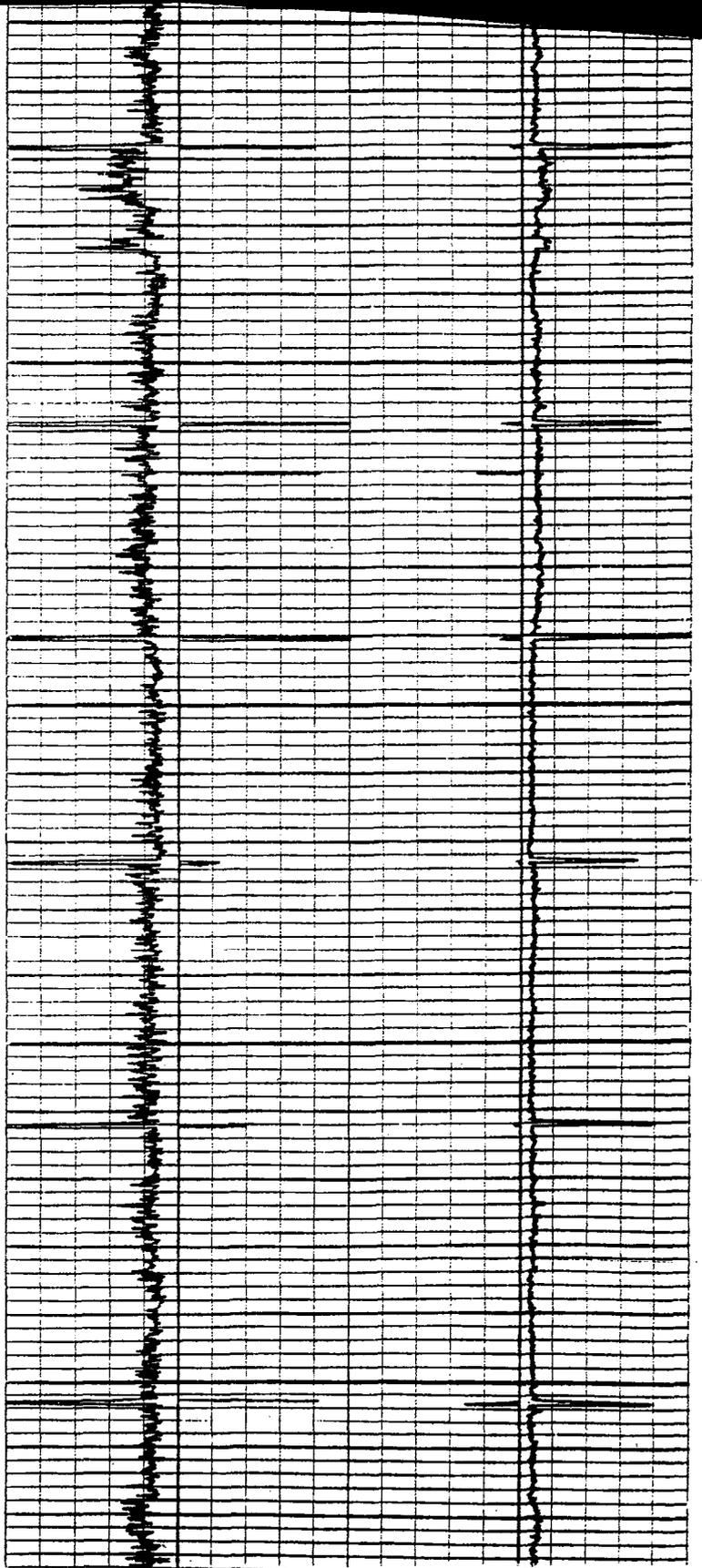
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	EMAX		E AVG	
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7800

7900

8000

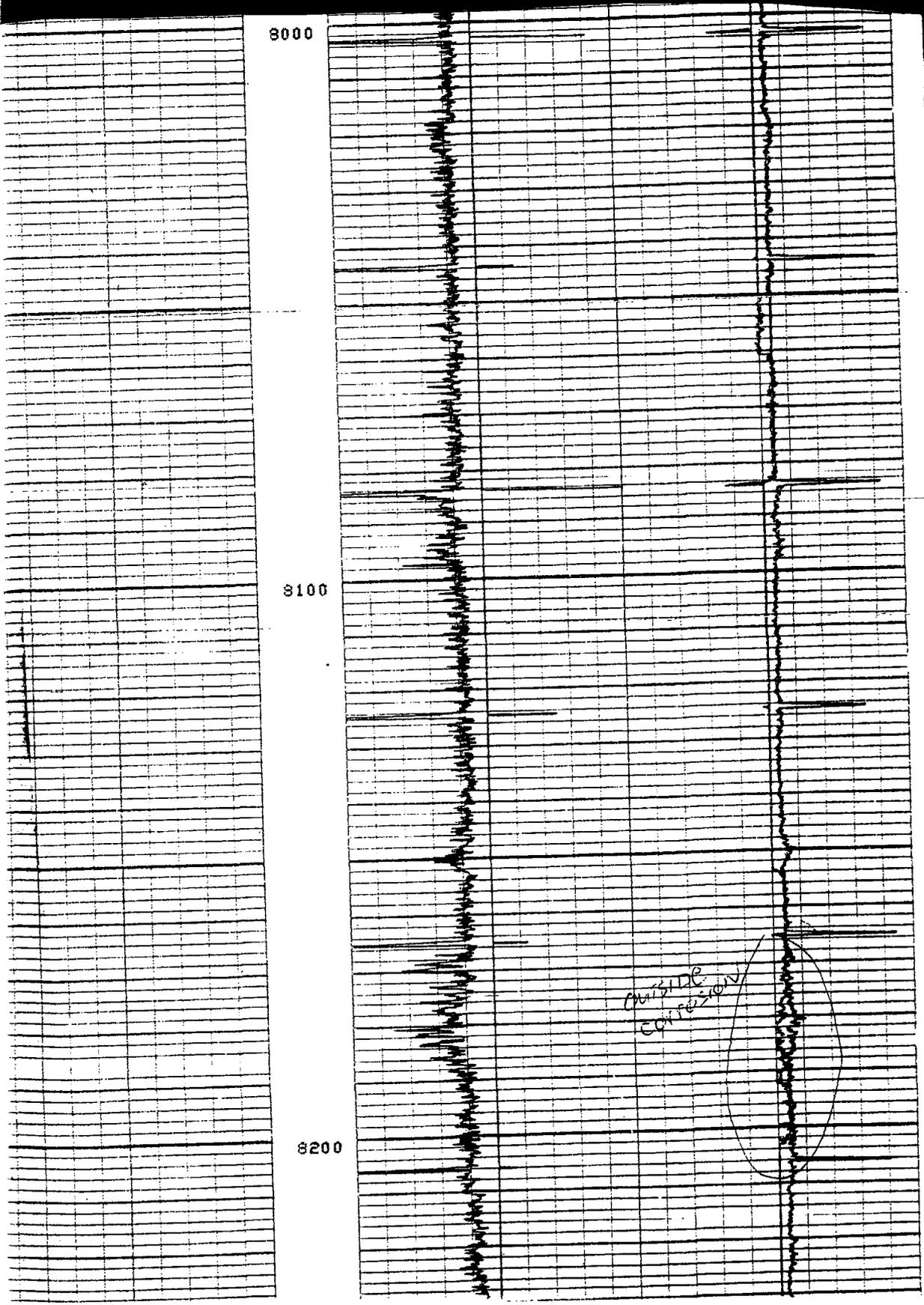


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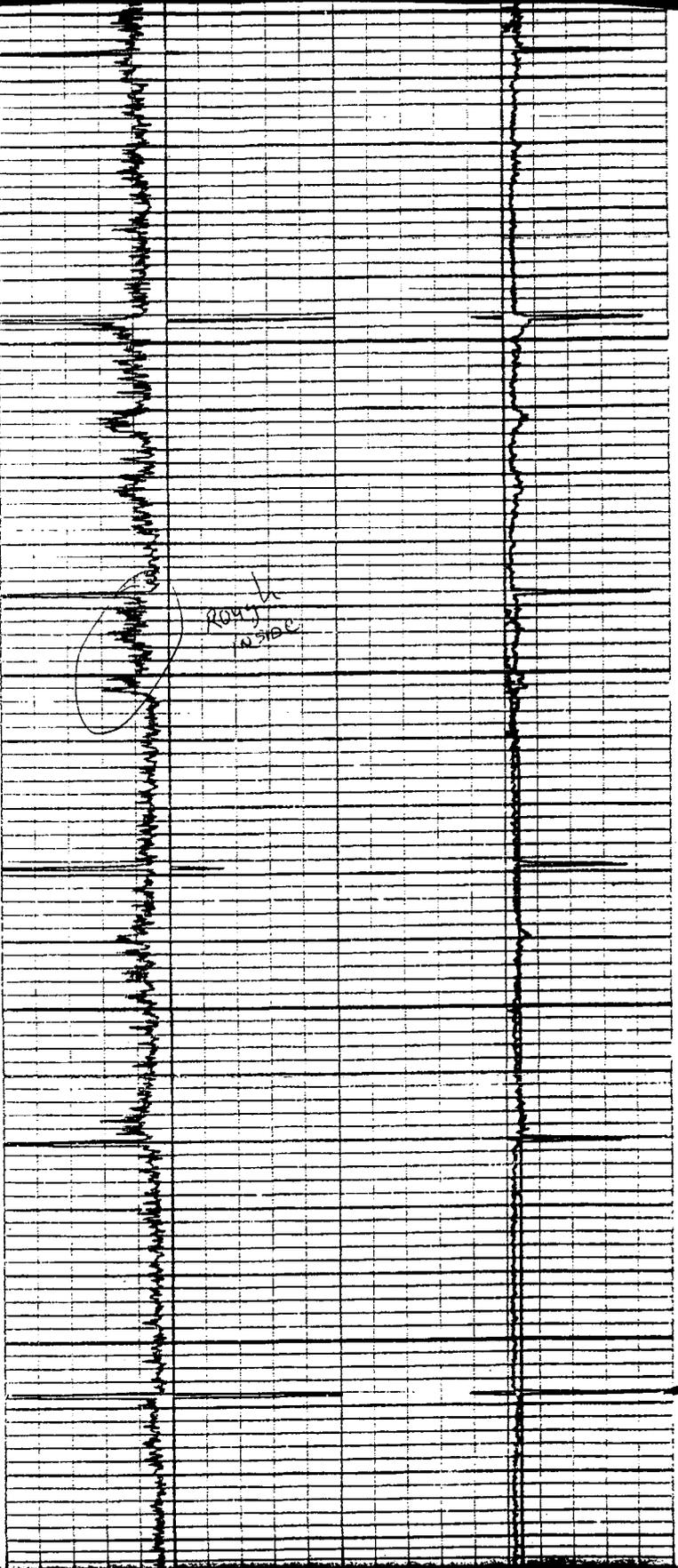
OUTSIDE
CORROSION



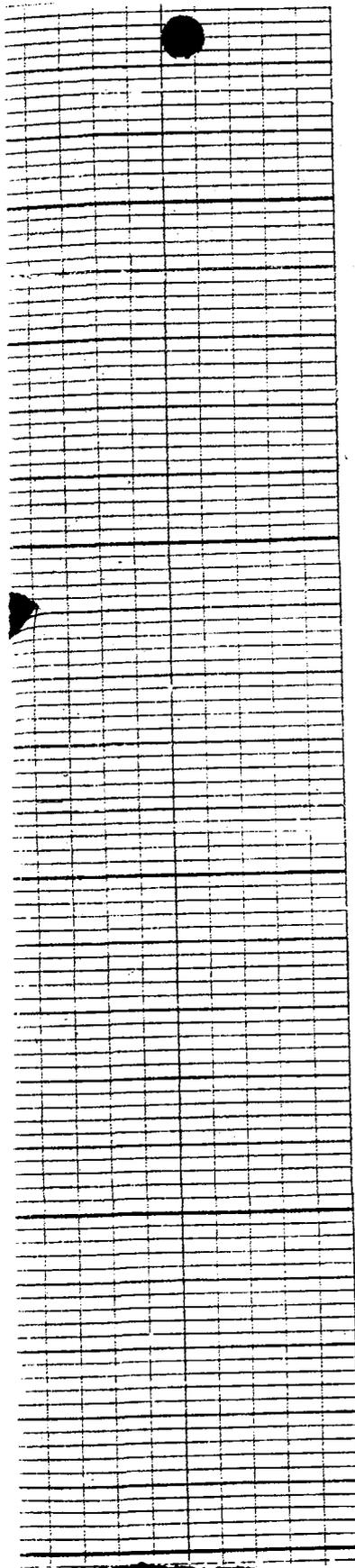
8200

8300

8400

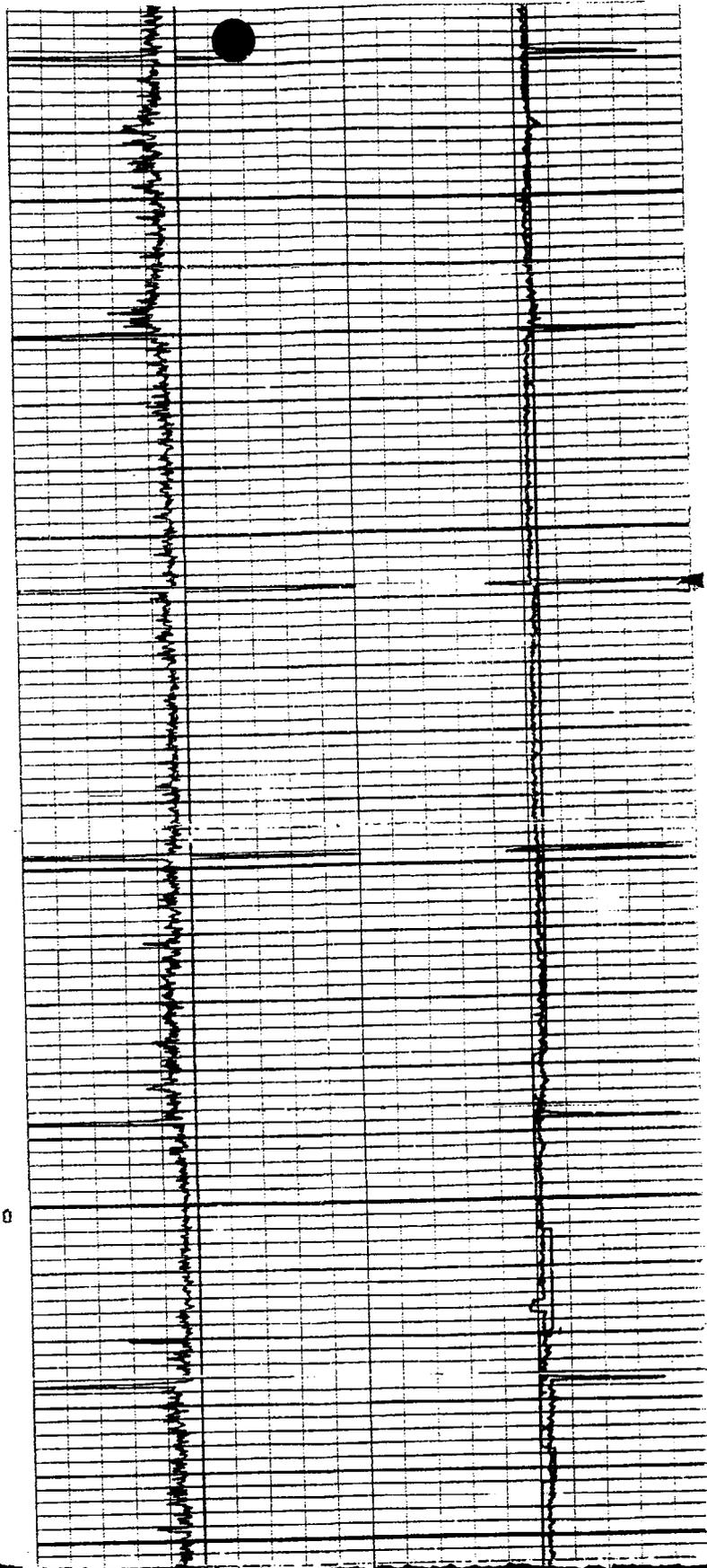


rough
on side



8400

8500

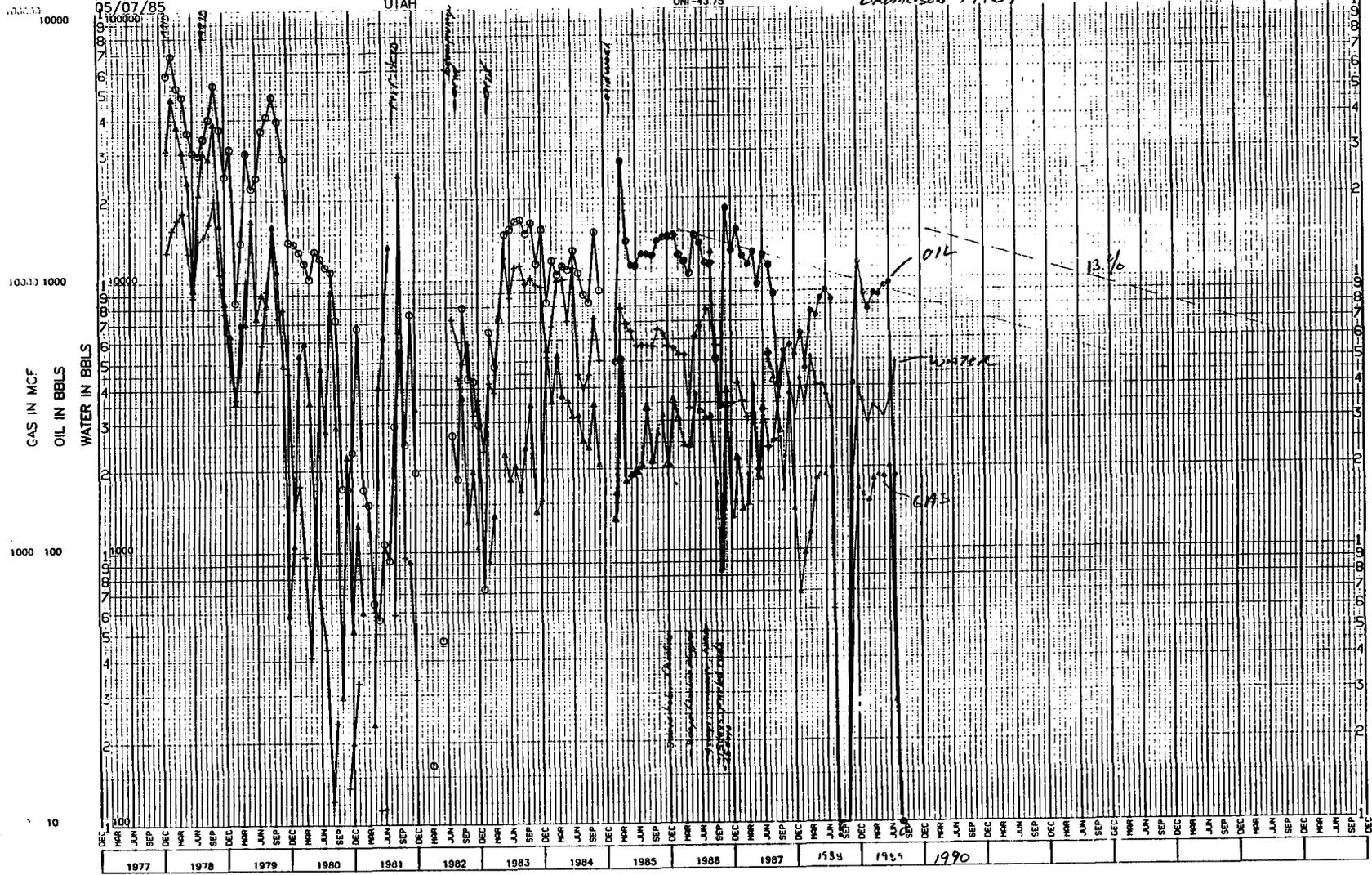


MONTHLY PRODUCTION
 WESTERN REGION
 ROCKY MOUNTAIN
 05/07/85

14 2S 4W
 DUCHESNE
 UTAH

USA 41.0A
 GNI-50.00
 GNI-43.75
 GNI-50.00
 GNI-43.75

Braderson 1-1184



TIME SPAN

UNLESS REQUESTED PROD VOLUMES PRIOR TO JAN 1, 1978 NOT PLOTTED

Altamont Field
Brotherson #1-14B4
Section 14, T2S-R4W
Duchesne, Utah

GEOLOGICAL SUMMARY

The Brotherson #1-14B4 well was originally drilled to a TD of 9807' in the lower Green River Formation in late 1970. The open-hole interval 7100' (9 5/8 casing point) to 9807' was swab and pump tested. Production averaged 9 BOPD and 435 BWPD. A cement plug was set at 7603' and the interval 7100' to 7603' (Upper Green River) was further evaluated. On 2-12-71, the well pumped 36 BOPD with no water and was shut-in. The well was deepened to 10,150' in March, 1971 and subsequently TA'd. In April, 1972 operations to deepen the well to the Wasatch commenced and a TD of 12,997' was reached in June, 1972. The Wasatch was initially completed from 10,309' to 12,919' in September, 1972. Additional perforations were added (11,918' to 12,730') in September, 1976 and gas lift was initiated. In June, 1977 mechanical problems (bad casing at 11,777') were encountered during remedial operations. In 1981, a CIBP was set at 11,430' and additional perforations (10,600' to 11,420') were shot in the Upper Wasatch. In June, 1982 the well was put on beam pump. Scale has been a problem throughout the life of the well and in 1982 and 1983 acid jobs and inhibitor squeezes were attempted. In early 1985, an acid wash was performed and in late 1986, tubing and rod repair was necessary. Production from the Upper Wasatch interval 10,309' to 11,420' (73 zones) had been steady in the 40 to 60 BOPD range since early 1983. Production dropped significantly to 13 BOPD in September 1987 and a casing leak is suspected. Cumulative production for the well (to 10-1-87) is near 820 MBO.

Recommendations

1. Clean out, check for and repair casing leak.
2. Add infill perforations in the Upper Wasatch interval 10,605' to 11,419' (33 zones) - see attached schedule.
3. Acidize well, return to production.
4. Add Green River perforations at a later date.

RJL
RJL
10/29/87

Brotherson #1-14B4

Infill Wasatch Perforations

(Reference: Schlumberger FDC-CNL dated 5-18-72)

10605	10759	11073
10610	10769	11091
10621	10791	11120
10625	10864	11121
10649	10871	11151
10690	10887	11213
10705	10919	11286
10719	10932	11307
10724	10986	11341
10741	11027	11385
10755	11041	11419

Proposed: 10,605' to 11,419' (33 feet, 3 PF)

RDL
RDL
10/19/87

BROTHERSON #1-1484
 WORKOVER ECONOMICS
 INCLUDING PAST & FUTURE INVEST
 \$296,300

DATE: 11-15-89
 TIME: 16:22:49
 FILE: BR01484
 FILE: LINMAR
 PROJ: 1

INPUT DATA

CALCULATED DATA

ITEM	SCHEDULING RATES			SCHEDULE UNTIL		PROCEDURE	ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE	
405 START	01/90											
410 OIL	50.00	EL	B/D	X	YRS	CPD	13.00	130.187	1/26	13.00	1521.	10.
420 GAS/OIL	2.14	2.14	M/B		.00 LIFE	LIN	TIME		1/26			
425 DPC/T	6800.00	X	\$/M		.00 LIFE	PC/Y	4.00		1/26		6800.000	27906.710
500 PRI OIL	1/90 19.75	20.75	\$/Y						12/91			
501 "	21.58	25.00	\$/B		.00 LIFE	PC	4.00		10/95		21.580	25.000
505 PRI/GAS	1.39	1.39	\$/M	1/94	AD	PC	.00		12/89		1.390	1.390
506 "	.78	.78	\$/M		.00 LIFE	PC/Y	.00		10/95		.780	25.000
600 STX/OIL	8.00	8.00	%		.00 LIFE	PC	.00		12/89		.000	.000
605 STX/GAS	8.00	8.00	%		.00 LIFE	PC	.00		12/89		.000	.000
705 NET/WI	52.60	X	%		.00 LIFE				1/26		.526	.526
715 NET/NIC	46.03	D	%		.00 LIFE				1/26		.460	.460
725 NET/NIG	46.03	D	%		.00 LIFE				1/26		.460	.460
INVESTMENT	TANGIBLES & INTANGIBLES			TIME		PROCEDURE	TOTAL T&I	MONTH	RISK INV.	TOT. T&I&R	ESC. T&I&R	
001 INVEST	42.10	254.20	M\$6	01/90	AD	PC	.00	296.300	1/90	.00	296.300	296.300

BROTHERSON #1-14B4
 WORKOVER ECONOMICS
 INCLUDING PAST & FUTURE INVEST
 \$296,300

DATE: 11-15-89
 TIME: 16:22:49
 FILE: BRO14B4
 FILE: LINMAR
 PROJ: 1

RESERVES AND ECONOMICS (B F I T)

AS OF DATE: 1/1/1990

-END- MO-YR	GROSS OIL PROD'TION	GROSS GAS PROD'TION	AVG NMI	NET OIL PROD'TION	NET GAS PROD'TION	-AVG OIL	PRICES- GAS	REVENUE TO INTEREST	NET SEV + WFPT	NET ADV TAX	AVG WI	NET OPER COST	NET OPER INCOME
-----	---MB---	---MMCF---	=====	---MB---	---MMCF---	-\$/BO-	-\$/MCF-	-----M\$-----	-----M\$-----	-----M\$-----	=====	-----M\$-----	-----M\$-----
12-90	17.04	36.49	.460	7.84	16.80	19.75	1.390	178.22	14.26	.00	.526	42.93	121.84
12-91	14.82	31.75	.460	6.82	14.61	20.75	1.390	161.80	12.95	.00	.526	44.64	104.29
12-92	12.90	27.62	.460	5.94	12.71	21.96	1.390	148.04	11.84	.00	.526	46.43	89.77
12-93	11.22	24.03	.460	5.16	11.06	22.84	1.390	133.34	10.67	.00	.526	48.29	74.39
12-94	9.76	20.91	.460	4.49	9.62	23.76	.780	114.24	9.14	.00	.526	50.22	54.89
12-95	8.49	18.19	.460	3.91	8.37	24.69	.780	103.84	8.24	.00	.526	52.23	42.57
12-96	7.39	15.83	.460	3.40	7.29	25.00	.780	90.71	7.26	.00	.526	54.31	29.14
12-97	6.43	13.77	.460	2.96	6.34	25.00	.780	78.92	6.31	.00	.526	56.49	16.12
12-98	5.59	11.98	.460	2.57	5.51	25.00	.780	68.67	5.49	.00	.526	58.75	4.43
12-99													
12 0													
12 -1													
12 -2													
12 -3													
12 -4													
12 -5													
12 -6													
S TOT	93.64	200.58	.460	43.10	92.32	22.54	1.145	1077.07	86.17	.00	.526	454.27	536.63
AFTER	.00	.00	.000	.00	.00	.00	.000	.00	.00	.00	.000	.00	.00
TOTAL	93.64	200.58	.460	43.10	92.32	22.54	1.145	1077.07	86.17	.00	.526	454.27	536.63

	OIL	GAS		P.W. %	P.W., M\$
	-----	-----		-----	-----
GROSS WELLS	1.0	.0	LIFE, YRS.	9.00	311.852
GROSS ULT., MB & MMF	93.641	200.578	DISCOUNT %	20.00	276.868
GROSS CUM., MB & MMF	.000	.000	UNDISCOUNTED PAYOUT, YRS.	1.33	255.836
GROSS RES., MB & MMF	93.641	200.578	DISCOUNTED PAYOUT, YRS.	1.60	236.355
NET RES., MB & MMF	43.102	92.325	UNDISCOUNTED NET/INVEST.	3.44	218.325
NET REVENUE, M\$	971.390	105.678	DISCOUNTED NET/INVEST.	2.10	209.848
INITIAL PRICE, \$	19.750	1.390	RATE-OF-RETURN, PCT.	68.06	171.730
INITIAL N.I., PCT.	46.029	46.029	INITIAL W.I., PCT.	52.605	112.899
				68.00	14.025
				100.00	-44.077

INTEREST EVALUATED = TOTAL WITH REVERSION POINT, YRS = .000

AFTER TAX ECONOMICS

AS OF DATE: 1/1/1990

-END- MO-YR	NET OIL PRODUCTION ---MB---	NET GAS PRODUCTION ---MMCF---	NET OPER INCOME ---M\$---	NET INVEST. ---M\$---	DEPR. ---M\$---	DEPL. ---M\$---	INCOME TAX ---M\$---	N.O.I.- FIT & DDA ---M\$---	NET CASH FLOW ---M\$---	PW-CUM NET (BFIT) ---M\$---	CASH FLOW- (AFIT) ---M\$---
12-90	7.84	16.80	121.04	155.87	8.89	.00	6.30	185.84	-41.13	-46.16	-51.88
12-91	6.82	14.61	184.29	.00	15.25	.00	30.27	58.77	74.01	31.23	3.05
12-92	5.94	12.71	89.77	.00	10.89	.00	26.82	52.86	62.95	85.78	41.31
12-93	5.16	11.06	74.39	.00	7.78	.00	22.65	43.96	51.74	122.80	67.05
12-94	4.49	9.62	54.89	.00	5.56	.00	16.77	32.56	38.12	145.16	82.58
12-95	3.91	8.37	42.57	.00	5.56	.00	12.58	24.42	29.99	159.36	92.58
12-96	3.40	7.29	29.14	.00	5.56	.00	8.02	15.56	21.12	167.31	98.35
12-97	2.96	6.34	16.12	.00	2.78	.00	4.54	8.81	11.58	178.92	108.94
12-98	2.57	5.51	4.43	.00	.00	.00	1.50	2.92	2.92	171.73	181.47
12-99											
12 0											
12 -1											
12 -2											
12 -3											
12 -4											
12 -5											
12 -6											
9 TOT	43.10	92.32	536.63	155.87	62.26	.00	129.46	344.91	251.30	171.73	181.47
AFTER	.00	.00	.00	.00	.00	.00	.00	.00	.00	171.73	181.47
TOTAL	43.10	92.32	536.63	155.87	62.26	.00	129.46	344.91	251.30	171.73	181.47

	GROSS	W.I.	NET		BFIT	AFIT	P.W. %	BFIT P.W.	AFIT P.W.
	---	---	---		---	---	---	M\$-----	M\$-----
INITIAL INTEREST	1.00000	.52605	.46829	RATE OF RETURN, PCT.	68.1	53.3	5.00	311.852	202.879
OIL RESERVES, MB	93.641	49.260	43.182	UNDISC. PAYOUT, YRS.	1.3	1.6	8.00	276.868	177.838
GAS RESERVES, MMF	280.578	105.514	92.325	DISC. PAYOUT, YRS.	1.6	1.9	10.00	255.836	161.964
NGL RESERVES, MB	.000	.000	.000	UNDISC. NET/INVESTMENT	3.4	2.6	12.00	236.355	147.986
SGS RESERVES, MMF	.000	.000	.000	DISC. NET/INVESTMENT	2.1	1.7	14.00	218.325	135.833
REVENUE, M\$	2339.962	1238.937	990.983				15.00	289.848	128.937
OPER. EXPENSE, M\$	863.556	454.274	454.274				18.00	186.128	111.859
TANGIBLES, M\$	42.100	22.147	22.147	DISCOUNT %	20.00		20.00	171.730	101.474
INTANGIBLES, M\$	254.200	133.722	133.722	LIFE, YRS.	9.0		30.00	112.899	58.857
INITIAL OIL PRICE	19.750			GROSS OIL WELLS	1.0		60.00	14.825	-13.967
INITIAL GAS PRICE	1.390			GROSS GAS WELLS	.0		100.00	-44.877	-58.402
INTEREST EVALUATED = TOTAL				WITH REVERSION POINT, YRS =	.000				

BROTHERSON #1-1484
 WORKOVER ECONOMICS
 INCLUDING PAST & FUTURE INVEST
 \$296,300

DATE: 11-15-89
 TIME: 16:22:49
 FILE: BRO1484
 FILE: LINMAR
 PROJ: 1

ECONOMIC INDICATORS

AS OF DATE: 1/1/1990

B.F.I.T. WORTH M\$-----	A.F.I.T. WORTH M\$-----	A.F.I.T. BONUS M\$-----
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PRESENT WORTH PROFILE AND
 RATE-OF-RETURN VS. BONUS TABLE

0.	300.760	251.302	300.760
5.	311.052	202.079	283.122
8.	276.868	177.038	239.238
10.	255.836	161.964	214.397
12.	236.355	147.986	192.319
14.	218.325	135.033	172.619
15.	209.848	128.937	163.585
18.	186.128	111.859	139.034
20.	171.730	101.474	124.618
25.	139.814	78.396	93.851
30.	112.899	58.857	69.040
40.	70.317	27.748	31.583
60.	14.025	-13.967	-15.331
80.	-20.766	-40.327	-43.361
100.	-44.077	-58.402	-61.970

RATE OF RETURN, PCT.	68.1	53.3
UNDISCOUNTED PAYOUT, YRS.	1.33	1.56
DISCOUNTED PAYOUT, YRS.	1.60	1.94
UNDISCOUNTED NET/INVEST.	3.44	2.61
DISCOUNTED NET/INVEST.	2.10	1.65

NOTES

BROTHERSON #1-1484
 WORKOVER ECONOMICS
 INCLUDING ONLY FUTURE INVEST
 \$136,300

DATE: 11-15-89
 TIME: 16:24:13
 FILE: BRD1484
 FILE: LINMAR
 PROJ: 2

INPUT DATA

CALCULATED DATA

ITEM	SCHEDULING RATES			SCHEDULE UNTIL		PROCEDURE	ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE
405 START	01/90										
410 OIL	50.00	EL B/D	X	YRS	CPD	13.00	130.187	1/26	13.00	1521.	10.
420 GAS/OIL	2.14	2.14 M/B		.00 LIFE	LIN	TIME		1/26			
425 OPC/T	6800.00	X \$/M		.00 LIFE	PC/Y	4.00		1/26		6800.000	27906.710
500 PRI DIL	1/90 19.75	20.75 \$/Y						12/91			
501 "	21.58	25.00 \$/B		.00 LIFE	PC	4.00		10/95		21.580	25.000
505 PRI/GAS	1.39	1.39 \$/M	1/94	AD	PC	.00		12/89		1.390	1.390
506 "	.78	.78 \$/M		.00 LIFE	PC/Y	.00		10/95		.780	25.000
680 STX/OIL	8.00	8.00 %		.00 LIFE	PC	.00		12/89		.000	.000
685 STX/GAS	8.00	8.00 %		.00 LIFE	PC	.00		12/89		.000	.000
705 NET/WI	52.60	X %		.00 LIFE				1/26		.526	.526
715 NET/NIC	46.03	D %		.00 LIFE				1/26		.460	.460
725 NET/NIG	46.03	D %		.00 LIFE				1/26		.460	.460
INVESTMENT	TANGIBLES & INTANGIBLES			TIME	PROCEDURE	TOTAL T&I	MONTH	RISK INV.	TOT. T&I&R	ESC. T&I&R	
001 INVEST	94.20	42.10 M\$G	01/90	AD	PC	.00	136.300	1/90	.00	136.300	136.300

BROTHERSON #1-1484
 WORKOVER ECONOMICS
 INCLUDING ONLY FUTURE INVEST
 \$136,300

DATE: 11-15-89
 TIME: 16:24:13
 FILE: BRD1484
 FILE: LINMAR
 PROJ: 2

RESERVES AND ECONOMICS (B F I T)

AS OF DATE: 1/1/1990

-END- MO-YR	GROSS OIL PROD'TION	GROSS GAS PROD'TION	AVG NMI	NET OIL PROD'TION	NET GAS PROD'TION	-AVG OIL	PRICES- GAS	REVENUE TO INTEREST	NET SEV + WFPT	NET ADV TAX	AVG WI	NET OPER COST	NET OPER INCOME
-----	MB-----	MMCF-----	=====	MB-----	MMCF-----	\$/BO-	\$/MCF-	-----M\$-----	-----M\$-----	-----M\$-----	=====	-----M\$-----	-----M\$-----
12-90	17.04	36.49	.460	7.84	16.80	19.75	1.390	178.22	14.26	.00	.526	42.93	121.04
12-91	14.82	31.75	.460	6.82	14.61	20.75	1.390	161.88	12.95	.00	.526	44.64	104.29
12-92	12.90	27.62	.460	5.94	12.71	21.96	1.390	148.04	11.84	.00	.526	46.43	89.77
12-93	11.22	24.03	.460	5.16	11.06	22.84	1.390	133.34	10.67	.00	.526	48.29	74.39
12-94	9.76	20.91	.460	4.49	9.62	23.76	.780	114.24	9.14	.00	.526	50.22	54.89
12-95	8.49	18.19	.460	3.91	8.37	24.69	.780	103.04	8.24	.00	.526	52.23	42.57
12-96	7.39	15.83	.460	3.40	7.29	25.00	.780	90.71	7.26	.00	.526	54.31	29.14
12-97	6.43	13.77	.460	2.96	6.34	25.00	.780	78.92	6.31	.00	.526	56.49	16.12
12-98	5.59	11.98	.460	2.57	5.51	25.00	.780	68.67	5.49	.00	.526	58.75	4.43
12-99													
12 0													
12 -1													
12 -2													
12 -3													
12 -4													
12 -5													
12 -6													
S TOT	93.64	200.58	.460	43.10	92.32	22.54	1.145	1077.07	86.17	.00	.526	454.27	536.63
AFTER	.00	.00	.000	.00	.00	.00	.000	.00	.00	.00	.000	.00	.00
TOTAL	93.64	200.58	.460	43.10	92.32	22.54	1.145	1077.07	86.17	.00	.526	454.27	536.63

	OIL	GAS		P.W. %	P.W., M\$
	-----	-----		-----	-----
GROSS WELLS	1.0	.0	LIFE, YRS.	9.00	396.020
GROSS ULT., MB & MMF	93.641	200.578	DISCOUNT X	20.00	361.036
GROSS CUM., MB & MMF	.000	.000	UNDISCOUNTED PAYOUT, YRS.	.59	340.004
GROSS RES., MB & MMF	93.641	200.578	DISCOUNTED PAYOUT, YRS.	.65	320.523
NET RES., MB & MMF	43.102	92.325	UNDISCOUNTED NET/INVEST.	7.48	302.493
NET REVENUE, M\$	971.390	105.678	DISCOUNTED NET/INVEST.	4.57	294.016
INITIAL PRICE, \$	19.750	1.390	RATE-OF-RETURN, PCT.	100.00	255.898
INITIAL N.I., PCT.	46.029	46.029	INITIAL W.I., PCT.	52.605	197.067
				60.00	98.193
				100.00	40.091

INTEREST EVALUATED = TOTAL WITH REVERSION POINT, YRS = .000

AFTER TAX ECONOMICS

AS OF DATE: 1/1/1990

-END- MO-YR	NET OIL PRODUCTION MB	NET GAS PRODUCTION MMCF	NET OPER INCOME M\$	NET INVEST. M\$	DEPR. M\$	DEPL. M\$	INCOME TAX M\$	N.D.I.- FIT & DDA M\$	NET CASH FLOW M\$	PN-CUM NET (BFIT) M\$	NET CASH FLOW- (AFIT) M\$
12-90	7.84	16.80	121.04	71.70	8.03	.00	33.15	79.86	16.18	38.01	7.96
12-91	6.82	14.61	104.29	.00	13.76	.00	30.78	59.75	73.51	115.40	62.51
12-92	5.94	12.71	89.77	.00	9.83	.00	27.18	52.76	62.59	169.95	100.54
12-93	5.16	11.06	74.39	.00	7.02	.00	22.90	44.46	51.40	206.96	126.16
12-94	4.49	9.62	54.89	.00	5.02	.00	16.96	32.91	37.93	229.32	141.61
12-95	3.91	8.37	42.57	.00	5.02	.00	12.77	24.78	29.80	243.52	151.55
12-96	3.40	7.29	29.14	.00	5.02	.00	8.20	15.92	20.94	251.40	157.27
12-97	2.96	6.34	16.12	.00	2.51	.00	4.63	8.99	11.49	255.09	159.84
12-98	2.57	5.51	4.43	.00	.00	.00	1.50	2.92	2.92	255.90	160.38
12-99											
12 0											
12 -1											
12 -2											
12 -3											
12 -4											
12 -5											
12 -6											
9 TOT	43.10	92.32	536.63	71.70	56.20	.00	158.08	322.36	306.85	255.90	160.38
AFTER	.00	.00	.00	.00	.00	.00	.00	.00	.00	255.90	160.38
TOTAL	43.10	92.32	536.63	71.70	56.20	.00	158.08	322.36	306.85	255.90	160.38

	GROSS	N.I.	NET		BFIT	AFIT	P.W. %	BFIT P.W.	AFIT P.W.
	-----	-----	-----		----	----	-----	M\$-----	M\$-----
INITIAL INTEREST	1.00000	.52605	.46029	RATE OF RETURN, PCT.	100.0	100.0	5.00	396.020	258.571
OIL RESERVES, MB	93.641	49.260	43.182	UNDISC. PAYOUT, YRS.	.6	.8	8.00	361.036	234.058
GAS RESERVES, MMF	200.578	105.514	92.325	DISC. PAYOUT, YRS.	.7	.9	10.00	340.004	219.320
NGL RESERVES, MB	.000	.000	.000	UNDISC. NET/INVESTMENT	7.5	5.3	12.00	320.523	205.670
SGS RESERVES, MMF	.000	.000	.000	DISC. NET/INVESTMENT	4.6	3.2	14.00	302.493	193.035
REVENUE, M\$	2339.962	1230.937	990.903				15.00	294.016	187.094
OPER. EXPENSE, M\$	863.556	454.274	454.274				18.00	270.296	170.469
TANGIBLES, M\$	94.200	49.554	49.554	DISCOUNT %	20.00		20.00	255.890	160.377
INTANGIBLES, M\$	42.100	22.147	22.147	LIFE, YRS.	9.0		30.00	197.067	119.124
INITIAL OIL PRICE	19.750			GROSS OIL WELLS	1.0		60.00	98.193	49.659
INITIAL GAS PRICE	1.390			GROSS GAS WELLS	.0		100.00	40.091	8.624
INTEREST EVALUATED = TOTAL				WITH REVERSION POINT, YRS =	.000				

BROTHERTON #1-1484
 WORKOVER ECONOMICS
 INCLUDING ONLY FUTURE INVEST
 \$136,300

DATE: 11-15-89
 TIME: 16:24:13
 FILE: BR01484
 FILE: LINMAR
 PROJ: 2

ECONOMIC INDICATORS

AS OF DATE: 1/1/1990

B.F.I.T.	A.F.I.T.	A.F.I.T.
WORTH	WORTH	BONUS
M\$-----	M\$-----	M\$-----

PRESENT WORTH PROFILE AND
RATE-OF-RETURN VS. BONUS TABLE

0.	464.928	306.853	464.928
5.	396.020	258.571	362.270
8.	361.036	234.058	316.291
10.	340.004	219.320	290.322
12.	320.523	205.670	267.283
14.	302.493	193.035	246.764
15.	294.016	187.094	237.369
18.	270.296	170.469	211.083
20.	255.898	160.377	196.956
25.	223.982	138.001	165.205
30.	197.067	119.124	139.733
40.	154.485	89.238	101.570
60.	98.193	49.659	54.509
80.	63.402	25.121	27.010
100.	40.091	8.624	9.151

RATE OF RETURN, PCT.	100.0	100.0
UNDISCOUNTED PAYOUT, YRS.	.59	.82
DISCOUNTED PAYOUT, YRS.	.65	.90
UNDISCOUNTED NET/INVEST.	7.48	5.28
DISCOUNTED NET/INVEST.	4.57	3.24

NOTES

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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>		<p>5. LEASE DESIGNATION & SERIAL NO. Patented</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p>
<p>2. NAME OF OPERATOR ANR Production Company</p>		<p>7. UNIT AGREEMENT NAME N/A</p>
<p>3. ADDRESS OF OPERATOR P. O. Box 749, Denver, Colorado 80201-0749</p>		<p>8. FARM OR LEASE NAME Brotherson</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2100' FNL & 750' FEL, Section 14 At proposed prod. zone</p>		<p>9. WELL NO. 1-14B4</p>
<p>14. API NO. 43-013-30051</p>		<p>10. FIELD AND POOL, OR WILDCAT Altamont</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6141' KB</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SENE Section 14, T2S-R4W</p>
<p>12. COUNTY Duchesne</p>		<p>13. STATE Utah</p>

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
<p>TEST WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREAT <input type="checkbox"/></p> <p>SHOOT OR ACIDIZE <input type="checkbox"/></p> <p>REPAIR WELL <input type="checkbox"/></p> <p>(Other) <input type="checkbox"/></p>	<p>WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREATMENT <input type="checkbox"/></p> <p>SHOOTING OR ACIDIZING <input checked="" type="checkbox"/></p> <p>(Other) <input type="checkbox"/></p>
<p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>MULTIPLE COMPLETE <input type="checkbox"/></p> <p>ABANDON <input type="checkbox"/></p> <p>CHANGE PLANS <input type="checkbox"/></p>	<p>REPAIRING WELL <input type="checkbox"/></p> <p>ALTERING CASING <input type="checkbox"/></p> <p>ABANDONMENT* <input type="checkbox"/></p>
<p>APPROX. DATE WORK WILL START _____</p>	<p>DATE OF COMPLETION <u>3-21-90</u></p>

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

* Must be accompanied by a cement verification report.

See attached chronological report to install tieback liner, perforate and acidize the subject well.

OIL AND GAS	
DRN	1-17
JRB	2-11
DTS	2-15
1-7AS	
2-	MICROFILM <input checked="" type="checkbox"/>
3-	FILE <input checked="" type="checkbox"/>

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

SIGNED Timothy F. Saiba TITLE Administrative Manager DATE 4-11-90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side

THE COASTAL CORPORATION
PRODUCTION REPORT

CHRONOLOGICAL HISTORY

BROTHERSON #1-14B4 (INSTALL TIEBACK LINER, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH
WI: 52.6050% ANR AFE: 62977
TD: 13,000' PBD: 11,430'
CSG: 5-1/2" LINER @ 9,657'-11,905'
PERFS: 10,309'-11,430' (WASATCH)
CWC(M\$): \$136.3

Page 5

2/28/90 POOH w/2-7/8" tbg. MIRU. SITP 2000#. ND WH. POOH w/86 tapered rod string. NU BOP's. Start POOH w/2-7/8" tbg.
DC: \$2,670 TC: \$2,670

3/1/90 Dress 5-1/2" LT. Fin POOH w/2-7/8" tbg. Set 5-1/2" CIBP @ 9720' on WL. RIH w/dressing mill for 5-1/2" receptacle.
DC: \$6,015 TC: \$8,685

3/2/90 RIH w/5-1/2" csg. Dress LT. Circ hole clean. POOH w/dressing mill.
DC: \$5,420 TC: \$14,105

3/5/90 RIH w/cmt retainer. RIH w/101 jts (3997') 5-1/2" 17# csg. Tag ln @ 9657'. Set new hanger @ 5670'. Rls 2-7/8" tbg & POOH.
DC: \$12,595 TC: \$26,700

3/6/90 WOC. Set cmt ret @ 9540'. Press tst to 3000 psi. Cmt ln w/300 sxs Cl "C". Unsting from ret & reverse out.
DC: \$10,235 TC: \$36,935

3/7/90 WOC.

3/8/90 DO cmt. RIH w/4-3/4" bladed mill. Tag cmt @ 9537'. DO cmt & retainer to 9545'.
DC: \$45,580 TC: \$82,515

3/9/90 RIH w/string mill. Drop out of cmt @ 9663'. Tight spot found @ 9664'. DO CIBP @ 9720'. Push to PBD @ 11,430'. Start POOH.
DC: \$3,060 TC: \$85,575

3/12/90 Prep to perf Wasatch form. SITP 1200#. POOH w/4-3/4" mill. RIH w/4-5/8" string mill & dress up tight spot @ 9663'. POOH.
DC: \$4,530 TC: \$90,105

3/13/90 Fish pkr & tbg. Perf Wasatch form from 10,605'-11,419' (33 zones) w/4" guns, 3 SPF, 120° phasing. No press. FL @ 4700'. Start RIH w/5-1/2" pkr hydrotstg 2-7/8" tbg to 8500#. Collar blew on 13 std. Start RIH w/4-1/16" x 3-21/32" OS & BHA.
DC: \$12,325 TC: \$102,430

3/14/90 RIH w/5-1/2" pkr. Fin RIH w/OS & BHA. Latch fish. Rec'd pkr & tbg. Start RIH w/2-7/8" tbg & 5-1/2" pkr.
DC: \$3,690 TC: \$106,120

3/15/90 Press tst csg. Fin RIH w/2-7/8" tbg & 5-1/2" pkr. Set pkr @ 10,152'. Fill annulus w/prod wtr. Press tst annulus, no good. Reset pkr @ 9690', no good. Reset pkr @ 5896'. Held OK. SDFN.
DC: \$41,019 TC: \$147,139

3/16/90 Prep to acdz. Press tst 5-1/2" liner @ 5962' & 10,152' to verify csg leak.
DC: \$3,405 TC: \$150,544

3/19/90 Swab back load volume. Set pkr @ 10,152'. Acdz perfs from 10,309' to 11,420', 257 holes w/10,000 gal 15% HCl w/diverter and 250 l.l S.G. B.S. MTP 8600 psi, ATP 8300 psi, MIR 26 BPM, AIR 22 BPM, ISIP 1200 psi, 5 min 0 psi. Good diversion. 621 BLWTBR. RU swab equip. IFL @ 4500'. Rec'd 108 BLW. FFL @ 4500'.
DC: \$3,635 TC: \$154,179

THE COASTAL CORPORATION
PRODUCTION REPORT
CHRONOLOGICAL HISTORY

BROTHERSON #1-14B4 (INSTALL TIEBACK LINER, PERF & ACDZ)
ALTAMONT/BLUEBELL FIELD
DUCHESNE COUNTY, UTAH

Page 6

3/20/90 RIH w/prod equip. SITP 800 psi. Flow 2 hrs 90% oil. Rec 16 BO, 2 BW.
Made 3 swab runs. Rec 15 BO, 2 BW. FL @ 3500'. Rls & POOH w/pkr. RIH
w/TAC, 3-1/2" PBGA & BHA.
DC: \$10,675 TC: \$164,854

3/21/90 Return online. Set TAC @ 9644'. PSN @ 9537'. RIH w/1-3/4" rod pmp & 86
design. Hang off rods & turn on unit.
DC: \$4,238 TC: \$169,092

3/20/90 Pmpd 65 BO, 0 BW, 0 MCF.

3/21/90 Pmpd 60 BO, 175 BW, 83 MCF.

3/22/90 Pmpd 97 BO, 200 BW, 94 MCF.
DC: \$2,310 TC: \$171,402

3/23/90 Pmpd 106 BO, 180 BW, 94 MCF.

3/24/90 Pmpd 86 BO, 183 BW, 94 MCF.

3/25/90 Pmpd 85 BO, 167 BW, 84 MCF.

3/26/90 Pmpd 91 BO, 155 BW, 76 MCF.

Before on rod pmp avg'd: 0 BOPD, 0 BWPD, 0 MCFPD. Final report.

STATE OF UTAH
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 TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

Patented

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

8. Well Name and Number:

Brotherson #1-14B4

9. API Well Number:

43-013-30051

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: 2100' FNL & 750' FEL

County: Duchesne

QQ, Sec., T., R., M.: Section 14, T2S-R4W

SW/SE/NE

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <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"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other Install packer gas anchor | |

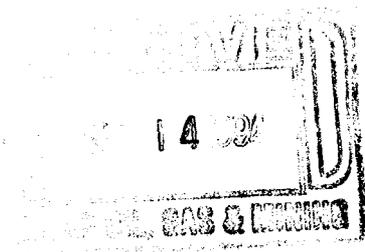
Date of work completion 1/4-7/94

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

* Must be accompanied by a cement verification report.

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

Please be aware that on the above dates a packer gas anchor was installed on the subject well. See attached chronological history.



13.

Name & Signature:

Bonnie Johnston

Title: Bonnie Johnston
Environmental Coordinator

Date: 09/12/94

(This space for State use only)

9/2/92

TC: \$5,974'

BROTHERSON #1-14B4
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

Page 2

9/8 - No Part. Hole in tbg. POOH w/tbg. Replace 6 jts tvg, 3 - 3/4", 3 -
9/10/92 7/8" rods.

TC: \$8,739

1/2 - Pin break 3/4" @ 5650' 13th rod. Fish rods. Press up to 1000 psi
1/5/93 won't bleed off. PBGA plugged. POOH w/tbg. LD 2 jts of gaulded
tbg. PBGA plugged w/scale. RIH w/new PBGA & TAC. Set TAC @ 9563',
SN @ 9459'.

TC: \$16,122

7/27 - 3/4" pin break on top of 29th rod 1986 EL @ 6075'. POOH & LD all
7/29/93 3/4" rods & replace w/EL's. Also revise rod design.

TC: \$19,890

10/7 - 7/8" coupling break on btm of 119th 7/8" rod @ 6000' - 1988 Norris 97.
10/8/93 Replace 2 - 7/8" rods.

TC: \$6,332

1/4-7/94 (Capital AFE to install packer gas anchor) Polish rod part.
Fish rods. PU & RIH w/ packer type gas anchor. Set pkr @ 9526'.
SN @ 9460'. RIH w/ 1-3/4" pump.

TC: \$20,472

4/18/94 Pin pulled out of coupling on 49th 1" coupling at 1250'(1982 EL).
Replaced 2 rods.

TC: \$4,650

4/25-29/94 7/8" box on btm of 109 rod @ 5790'. Replace 3-7/8" rods.

TC: \$7335

5/16-17/94 7/8" box break on btm of 112th rod @ 5800'. Replace all 7/8"
couplings with new LTV's.

TC \$7489

5/21/94 1" box @ 1068' on btm of 42nd rod.

TC: \$4,019

6/14-15/94 3/4" body brk @ 6205' on 4th rod.

6/22-24/94 (MAINT AFE) No part. Pkr slipping. PooH with tbg. Unable to
determine problem. RIH with new down hole assembly (pkr type GA)

TC: \$10,750

7/16-18/94 Pkr sheared. POOH with rods & tbg. Pkr sheared. Mountain states
notified and will pay part of pulling job. No afe required.
RIH with production equipment. Well tagging. POOH with rods.
check tubing. Loose. Reset. RIH with rods.

TC: \$12,570

RECEIVED

SEP 28 1994

3. Lease Designation and Serial Number:

Patented

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.

6. If Indian, Allottee or Tribe Name:

N/A

7. Unit Agreement Name:

N/A

1. Type of Well:

OIL GAS OTHER:

8. Well Name and Number:

Brotherson #1-14B4

2. Name of Operator:

ANR Production Company

9. API Well Number:

43-013-30051

3. Address and Telephone Number:

P.O. Box 749, Denver, CO 80201-0749

(303) 573-4476

10. Field and Pool, or Wildcat:

Altamont

4. Location of Well

Footages: 2100' FNL & 750' FEL

County: Duchesne

QQ, Sec., T., R., M.: Section 14

State: Utah

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

NOTICE OF INTENT
(Submit In Duplicate)

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

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of work completion 1/4-7/94

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

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

Please be aware that on the above dates a packer gas anchor was installed on the subject well. See attached chronological history.

13.

Name & Signature:

Title: Environmental Coordinator

Date:

09/12/94

(This space for State use only)

Tax Credit
Form 15
9/28/94

9/2/92

TC: \$5,974'

BROTHERSON #1-14B4
ALTAMONT FIELD
DUCHESNE COUNTY, UTAH

Page 2

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1/5/93 won't bleed off. PBGA plugged. POOH w/tbg. LD 2 jts of gaulded
tbg. PBGA plugged w/scale. RIH w/new PBGA & TAC. Set TAC @ 9563',
SN @ 9459'.

TC: \$16,122

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7/29/93 **3/4" rods & replace w/EL's.** Also revise rod design.

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10/7 - 7/8" coupling break on btm of 119th 7/8" rod @ 6000' - 1988 Norris 97.
10/8/93 Replace 2 - 7/8" rods.

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SN @ 9460'. RIH w/ 1-3/4" pump.

TC: ~~\$20,472~~

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Replaced 2 rods.

TC: \$4,650

4/25-29/94 7/8" box on btm of 109 rod @ 5790'. Replace 3-7/8" rods.

TC: \$7335

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TC \$7489

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RIH with production equipment. Well tagging. POOH with rods.
check tubing. Loose. Reset. RIH with rods.

TC: \$12,570

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 County: See Attached QQ, Sec., T., R., M.: See Attached State: Utah	8. Well Name and Number: See Attached
	9. API Well Number: See Attached
	10. Field and Pool, or Wildcat: See Attached

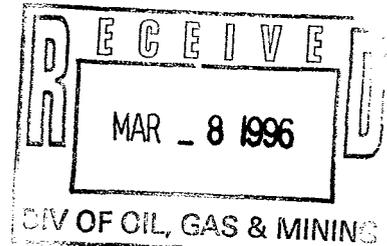
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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 <u>Change of Operator</u>
<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: Coastal Oil & Gas Corporation Date: 03/07/96
Sheila Bremer
Environmental & Safety Analyst

(This space for State use only)

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing: *CH*

1-LEC-7-51
2-DTS 8-FILE
3-VLD
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 & 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>
phone <u>(303) 572-1121</u>	phone <u>(303) 572-1121</u>
account no. <u>N 0230 (B)</u>	account no. <u>N0675</u>

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>D13-30051</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: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- Sec* 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)*
- Sec* 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: _____.
- VA* 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.
- Sec* 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/Fed C.A.'s) (8-20-96/Indian C.A.'s)*
- Sec* 6. Cardex file has been updated for each well listed above.
- Sec* 7. Well file labels have been updated for each well listed above.
- Sec* 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)*
- Sec* 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

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).
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.

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.*
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

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

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~~ in 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 2-5B2/43-013-30784 under review at this time; no dg. yet!

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:

Exhibit "A"

2. NAME OF OPERATOR:
El Paso Production Oil & Gas Company

9. API NUMBER:

3. ADDRESS OF OPERATOR: 368 South 1200 East CITY Vernal STATE Utah ZIP 84078 PHONE NUMBER: 435-789-4433

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL
FOOTAGES AT SURFACE: COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<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

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 13 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 ✓		5-LP ✓
3. JLT		6-FILE

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

The operator of the well(s) listed below has changed, effective: **3-09-2001**

FROM: (Old Operator):
COASTAL OIL & GAS CORPORATION
Address: 9 GREENWAY PLAZA STE 2721
HOUSTON, TX 77046-0995
Phone: 1-(713)-418-4635
Account N0230

TO: (New Operator):
EL PASO PRODUCTION OIL & GAS COMPANY
Address: 9 GREENWAY PLAZA STE 2721 RM 2975B
HOUSTON, TX 77046-0995
Phone: 1-(832)-676-4721
Account N1845

CA No.

Unit:

WELL(S)

NAME	API NO	ENTITY NO	SEC TWN RNG	LEASE TYPE	WELL TYPE	WELL STATUS
BABCOCK 2-12B4 (CA 96-43)	43-013-31005	10215	12-02S-04W	FEE	OW	P
MYRIN RANCH 1-13B4 (CA 96-60)	43-013-30180	1775	13-02S-04W	FEE	OW	S
LAKE FORK 2-13B4 (CA 96-60)	43-013-31134	10452	13-02S-04W	FEE	OW	P
BROTHERSON 1-14B4	43-013-30051	1535	14-02S-04W	FEE	OW	P
BROTHERSON 2-14B4	43-013-30815	10450	14-02S-04W	FEE	OW	P
BROTHERSON 2-15B4	43-013-31103	1771	15-02S-04W	FEE	OW	P
LAKE FORK 3-15B4	43-013-31358	11378	15-02S-04W	FEE	OW	P
ELLSWORTH 1-16B4 (CA 96-59)	43-013-30192	1735	16-02S-04W	FEE	OW	P
ELLSWORTH 2-16B4 (CA 96-59)	43-013-31046	10217	16-02S-04W	FEE	OW	P
ELLSWORTH 1-17B4	43-013-30126	1695	17-02S-04W	FEE	OW	P
ELLSWORTH 2-17B4	43-013-31089	1696	17-02S-04W	FEE	OW	P
BLEAZARD 1-18B4	43-013-30059	1565	18-02S-04W	FEE	OW	S
BLEAZARD 2-18B4	43-013-31025	1566	18-02S-04W	FEE	OW	P
ELLSWORTH 1-19B4	43-013-30183	1760	19-02S-04W	FEE	OW	P
ELLSWORTH 2-19B4	43-013-31105	1761	19-02S-04W	FEE	OW	P
ELLSWORTH 1-20B4	43-013-30351	1900	20-02S-04W	FEE	OW	S
ELLSWORTH 2-20B4	43-013-31090	1902	20-02S-04W	FEE	OW	S
ELLSWORTH 3-20B4	43-013-31389	11488	20-02S-04W	FEE	OW	P
HUNT 1-21B4	43-013-30214	1840	21-02S-04W	FEE	OW	P
HUNT 2-21B4	43-013-31114	1839	21-02S-04W	FEE	OW	S

OPERATOR CHANGES DOCUMENTATION

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 06/19/2001
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/19/2001
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/21/2001
4. Is the new operator registered in the State of Utah: YES Business Number: 608186-0143

5. If **NO**, the operator was contacted contacted on: N/A
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the (merger, name change, or operator change for all wells listed on Federal or Indian leases on: N/A
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or the BIA has approved the operator change for all wells listed involved in a CA on: N/A
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 07/05/2001
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 07/05/2001
3. Bond information entered in RBDMS on: 06/20/2001
4. Fee wells attached to bond in RBDMS on: 07/05/2001

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: 7.26.01

FILING:

1. **ORIGINALS/COPIES** of all attachments pertaining to each individual well have been filled in each well file on: _____

COMMENTS: Master list of all wells involved in operator change from Coastal Oil & Gas Corporation to El Paso Production Oil and Gas Company shall be retained in the "Operator Change File".

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
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify) _____		8. Unit or Communitization Agreement
2. Name of Operator El Paso Production Oil & Gas Company		9. Well Name and Number Brotherson #1-14B4
3. Address of Operator P.O. Box 1148 Vernal, Utah 84078	4. Telephone Number (435) 781-7024	10. API Well Number 43-013-30051
5. Location of Well Footage : 2100'FNL & 750'FEL County : Duchesne QQ, Sec, T., R., M. : SENE Section 14-T2S-R4W State : Utah		11. Field and Pool, or Wildcat Altamont

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p align="center">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____		<p align="center">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other Backside Acid Job</td> <td></td> </tr> </table> <p>Date of Work Completion <u>5/16/02</u></p> <p><small>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.</small></p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other Backside Acid Job	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other Backside Acid Job																											

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.)

Pmp 10 Bbbls 2% KCL & 2 GL DP61 Followed by 24 Bbbls 15% HCL Followed by 281 Bbbls 2% KCL, in order to increase production.

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 DIVISION OF
 OIL, GAS AND MINING

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

Name & Signature Sheila Upchego  Title Regulatory Analyst Date 07/01/02

(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 16215	N/A	9643	502' FWL & 503' FSL	SWSW, 12-2S-4W	Altamont	Duchesne
Ellsworth 1-9B4	43-013-30118	Patented 1660	N/A	9645	1444' FNL & 700' FEL	SENE, 9-2S-4W	Altamont	Duchesne
Ellsworth 2-9B4	43-013-31138	Fee 16400	N/A	9645	2976' FNL & 2543' FWL	NESW, 9-2S-4W	Altamont	Duchesne
Burton 2-15B5	43-013-31044	Fee 16210	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	9674	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 16459	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 1730	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

Pennzoil

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
1. DJJ
2. CDW

Change of Operator (Well Sold)

X Operator Name Change

The operator of the well(s) listed below has changed, effective: <u>7/1/2006</u>	
FROM: (Old Operator): N1845-El Paso Production O&G Company 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2300	TO: (New Operator): N3065-El Paso E&P Company, LP 1001 Louisiana Street Houston, TX 77002 Phone: 1 (713) 420-2131
CA No.	Unit:

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: MULTIPLE LEASES
		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: SEE ATTACHED
2. NAME OF OPERATOR: EL PASO PRODUCTION OIL AND GAS COMPANY <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: SEE ATTACHED
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		COUNTY: UINTAH & DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<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) <u>CHERYL CAMERON</u>	TITLE <u>AUTHORIZED REGULATORY AGENT</u>
SIGNATURE <i>Cheryl Cameron</i>	DATE <u>6/20/2006</u>

(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

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

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number UTE 1-14C6	API Number 4301330051
Location of Well Footage : 1939' FNL, 2115' FEL County : DUCHESNE QQ, Section, Township, Range: SWNE 14 2S 4W State : UTAH	Field or Unit Name ALTAMONT/BLUEBELL Lease Designation and Number 14-20-H62-3809

EFFECTIVE DATE OF TRANSFER: 6/30/2006

CURRENT OPERATOR

Company: EL PASO PRODUCTION OIL & GAS COMPANY
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9280
Comments:

Name: CHERYL CAMERON
Signature: 
Title: REGULATORY ANALYST
Date: 6/6/2006

NEW OPERATOR

Company: EL PASO E&P COMPANY, L.P.
Address: 1339 EL SEGUNDO AVE NE
city ALBUQUERQUE state NM zip 87113
Phone: (505) 344-9380
Comments:

Name: CHERYL CAMERON
Signature: 
Title: REGULATORY ANALYST
Date: 6/6/2006

(This space for State use only)

Transfer approved by: 
Title: Regulatory Analyst

Approval Date: 7/14/06

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:		
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: Brotherson 1-14B4
2. NAME OF OPERATOR: EL PASO E&P COMPANY, L.P.		9. API NUMBER: 430133051 30051
3. ADDRESS OF OPERATOR: 1099 18TH ST, SUITE 1900 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		10. FIELD AND POOL, OR WILDCAT: Altamont
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100' FNL, 750' FEL		COUNTY: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 14 T2S R4W		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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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"/> 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>Surface Meter</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Commingle</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The referenced well is commingled at surface meter with the Brotherson 1-23B4 API# 43-013-30483 and the Brotherson 1-26B4 API# 43-013-30336

NAME (PLEASE PRINT) <u>Rachael Overbey</u>	TITLE <u>Engineering Tech</u>
SIGNATURE	DATE <u>7/16/2008</u>

(This space for State use only)

RECEIVED

AUG 05 2008

DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
<small>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.</small>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: El Paso E & P Company, LP		8. WELL NAME and NUMBER: BROTHERSON 1-14B4
3. ADDRESS OF OPERATOR: 1099 18th St Ste 1900 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4301330051
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100' FNL, 750' FEL		COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 14 2S 4W		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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/28/2009	<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>Commingle/measure</u> <u>ment</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.

THE REFERENCED WELL 1-14B4 & BROTHERSON 1-23B4 (4301330483) SHARE THE SAME TREATER AND HAVE COMMON ROYALTY OWNERSHIP. EACH MONTH A 24 HR. WELL TEST IS CONDUCTED FOR OIL, GAS AND WATER PRODUCTION. THE PRODUCTION VOLUMES ARE TAKEN FROM THE ORIFICE METER GAS SALES CHART, OIL METER AND WATER METER. THE WELL NOT BEING TESTED IS SHUT IN DURING THE 24 HR TEST PERIOD.

THE REFERENCED WELL 1-23B4R & BROTHERSON 1-14B4 (4301330051) TREATER AND THE 1-26B4 (4301330336) TREATER HAVE THEIR OWN ORIFICE METER GAS CHART AND SHARE THE SAME GAS SALES METER. THE ORIFICE METER GAS CHARTS AT EACH TREATER ARE USED FOR ALLOCATION PURPOSES ONLY. OIL AND WATER PRODUCTION VOLUMES ARE TAKEN FROM OIL AND WATER METERS WITHIN THE TREATERS.

COPY SENT TO OPERATOR

Date: 12/3/2009

Initials: KS

NAME (PLEASE PRINT) <u>MARIE OKEEFE</u>	TITLE <u>SR REGULATORY ANALYST</u>
SIGNATURE <u>Marie Okeefe</u>	DATE <u>10/28/2009</u>

(This space for State use only)

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

DATE: 11/30/09 (See Instructions on Reverse Side)
BY: [Signature]

(5/2000)

RECEIVED

NOV 09 2009

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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	8. WELL NAME and NUMBER: BROTHERSON 1-14B4
2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP	9. API NUMBER: 43013300510000
3. ADDRESS OF OPERATOR: 1099 18th ST, STE 1900 , Denver, CO, 80202	PHONE NUMBER: 303 291-6417 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/28/2009	<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 checked="" 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 type="checkbox"/> OTHER	OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EL PASO E & P PERFORMED THE RECOMPLETION WORK AND PERFORATED THE LGR 9212-10140'. ATTACHED IS THE RECOMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 January 19, 2010

NAME (PLEASE PRINT) Marie Okeefe	PHONE NUMBER 303 291-6417	TITLE Sr Regulatory Analyst
SIGNATURE N/A		DATE 1/15/2010



EL PASO PRODUCTION
Operations Summary Report

Legal Well Name: BROTHERSON 1-14B4
 Common Well Name: BROTHERSON 1-14B4
 Event Name: RECOMPLETION
 Contractor Name: PEAK
 Rig Name: PEAK

Spud Date: 10/10/1970
 Start: 11/6/2009
 End: 11/19/2009
 Rig Release: 11/19/2009
 Group:
 Rig Number: 700

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
11/7/2009	07:00 - 09:00	2.00	C	01		HSM MOVED RIG FROM THE 3-28 C6 TO THE 1-14 B4
	09:00 - 10:00	1.00	C	18		WIAT FOR BENCO TEST DEADMEN.
	10:00 - 11:00	1.00	C	01		RU RIG WHILE PUMPING 60 BTPW DOWN CSG
	11:00 - 12:00	1.00	C	18		RD HORSES HEAD PULLED PUMP OFF SEAT.
	12:00 - 13:00	1.00	C	08		FLUSH TBG W/ 60 BTPW
	13:00 - 15:00	2.00	C	04		TOOH W/ RODS AND PUMP
	15:00 - 16:30	1.50	C	15		ND WELLHEAD NU BOPS RU RIG FLOOR RD ARMS ON PUMPING UNIT
	16:30 - 17:00	0.50	C	04		RELEASED TAC TOOH W/ 10-JTS 2 7-8 N80 EUE TBG. CLEANED UP TOOLS SECURED WELL SDFN.
11/8/2009	-					NO ACTIVITY
11/9/2009	-					NO ACTIVITY
11/10/2009	07:00 - 07:30	0.50	C	20		HSM 50 CSIP BLED DOWN WELL
	07:30 - 11:30	4.00	C	04		TOOH W/ 356-JTS 2 7/8 N-80 EUE. AND LD BHA.
	12:00 - 12:30	0.50	C	18		RU HYDRO TESTER
	12:30 - 17:30	5.00	C	04		RIH TALLING AND HYDRO TESTING TBG @ 8500 PSI. W/ 4 5/8 BIT, BIT SUB, SCRAPER, X-OVER, AND 188-JTS 2 7/8 N-80 EUE. SECURED WELL SDFN.
11/11/2009	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 10:30	3.50	C	18		CSIP=50 PSI TSIP=0 FINISH RIH TALLING AND HYDRO TESTING TBG TO 8500 PSI. w 4 5/8 BIT, BIT SUB, 5 1/2" CSG SCRAPER, X-OVER, 146-JTS 2 7/8 N-80 EUE...EOT 10905' RD HYDRO TEST TOOL
	10:30 - 14:30	4.00	C	04		TOH LD 20 JTS OF 2 7/8" EUE 8RD TBG CONT TOH TO DERICK w 328 JTS OF EUE 8RD TBG LD BHA
	14:30 - 17:30	3.00	C	11		RU WIRELINE RIH w GR/CCL LOGGING TOOL TO 10400'...LOG WELL UP TO 5600' POH w WIRELINE LD GR/CCL TOOL
	17:30 - 20:00	2.50	C	11		PU 5 1/2" CIBP RIH w WL TO 10206' AND SET... POH w WL LD SETTING TOOL RIH w DUMP BAILER...DUMP 10' OF CMT ON TOP OF CIBP... TOP OF CMT @ 10196' POH w WL LD BAILER SECURE WELL SDFN...TTL WTR PMP TODAY 240 BBLS
11/12/2009	20:00 - 21:00	1.00	C	06		CREW TRAVEL FROM LOC
	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 10:00	3.00	C	08		CSIP=SLIGHT BLOW BLED RIGHT OFF TSIP=0 FILL CSG w 372 BBLS OF 2% KCL TEST PLUG TO 1500 PSI BLED OFF 450 PSI IN 5 MIN...BLED WELL OFF... PRESSURE TEST CSG TO 1500 PSI ISOLATE PMP BLED OFF 450 PSI IN 5 MIN...PRESSURE TO 1000 PSI BLED OFF 400 PSI IN 5 MIN
	10:00 - 17:00	7.00	C	11		RU WIRELINE PU 3 1/8" HSC GUNS LOADED w SPF, 120 DEGREE PHASING w 22.7 GRAM PERFORATE LGR AS PER NEW PROGNOSIS.
11/13/2009	17:00 - 18:00	1.00	C	06		SECURE WELL SDFN
	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 09:30	2.50	C	11		RU WIRELINE PU 3 1/8" HSC GUNS LOADED w SPF, 120 DEGREE PHASING w 22.7 GRAM CONT PERFORATING LGR AS PER NEW PROGNOSIS FLUID LEVEL DROP OVER NIGHT TO 1600'
	09:30 - 15:00	5.50	C	04		PU 5 1/2" 17# HD PKR TIH w 106 JTS OF 2 7/8" N-80 EUE 8RD TBG 3 1/2" X 2 7/8" XO 179 JTS OF 3 1/2" P-110 EUE 8RD TBG RU SRIPPING HEAD PU 3 1/2" RUBBER PU 4/10K GATE VALVE
	15:00 - 16:30	1.50	C	06		SET 5 1/2" HD PKR @ 8984' w 45K SET ON IT...FILL ANNULAS w 50 BBLS OF 2% KCL WTR TEST CSG TO 1000 PSI HELD 15 MIN TEST GOOD SECURE WELL SDFN



EL PASO PRODUCTION Operations Summary Report

Legal Well Name:	BROTHERSON 1-14B4	Spud Date:	10/10/1970
Common Well Name:	BROTHERSON 1-14B4	Start:	11/6/2009
Event Name:	RECOMPLETION	End:	11/19/2009
Contractor Name:	PEAK	Rig Release:	11/19/2009
Rig Name:	PEAK	Rig Number:	700
		Group:	

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
11/13/2009	16:30 - 17:30	1.00	C	06		CREW TRAVEL FROM LOC
11/14/2009	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 11:30	4.50	C	18		RU FLOW LINE MOVE CATWALK 3 1/2" TBG PIPE RACKS PREPAIR LOC FOR ACID JOB MONDAY 11/16/2009
	11:30 - 12:30	1.00	C	06		CREW TRAVEL FROM LOC
11/15/2009	-					NO ACTIVITY DWN FOR WEEKEND
11/16/2009	-					NO ACTIVITY DWN FOR WEEKEND
11/17/2009	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 12:30	5.50	C	21		RU BJ SERVICES RU RIG PMP TO ANNULAS w HARD LINE HSM JSA ON ACID JOB PRESSURE ANNULS TO 500 PSI AND MONITOR IN VAN PRESSURE TEST BJ'S LINES TO 8964 PSI
	12:30 - 13:30	1.00	C	21		OPEN WELL OPENING PRESSURE 220 PSI FILL TBG w 53 BBLs OF 2% KCL BRAKE DWN @ 3214 PSI PMP ACID JOB AS PER RECOMPLETION PROGNOSIS DROP 200 BIO BALLS EVENLY DISPERSED IN ACID STAGES...AVE PRESSURE 6005 PSI AVE RATE 31.2 BPM MAX RATE 35.7 BPM... ISIP= 1570 PSI 5 MIN 1186 PSI 10 MIN 943 PSI 15 MIN 775 PSI... FRAC GRDIENT .60 MID PERF @ 9649'
	13:30 - 14:30	1.00	C	21		RD BJ SERVICES RU FLOW BACK LINE OPEN WELL w 430 PSI
	14:30 - 15:30	1.00	C	06		MOVE CATWALK AND PIPE RACKS PREPAIR TO LD 3 1/2" TBG IN THE AM...TURN WELL OVER TO PRODUCTION FOR FLOW BACK
	15:30 - 16:30	1.00	C	06		CREW TRAVEL FROM LOC
11/18/2009	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 09:00	2.00	C	11		TBG PRESSURE 0 PSI CSIP=0 PSI RELEASE PKR @ 8984' LD 2 JTS OF 3 1/2" TBG RU DELSCO RIH TAG TD @ 10204' TOH RD DELSCO CONT TOH w 177 JTS OF 3 1/2" TBG FLUSHING TBG AS NEEDED STAND BACK IN DERRICK 106 JTS OF 2 7/8" TBG LD 5 1/2" PKR PU SOLID PLUG 2 JTS OF 2 7/8" N-80 EUE 8RD TBG 3 1/2" PBGA 4' 2 7/8" N-80 EUE 8RD TBG SUB +45 PMP SEATING NIPPLE 7 JTS OF 2 7/8" N-80 EUE 8RD TBG 5 1/2" 17# TAC TIH w 144 JTS OF 2 7/8" N-80 EUE 8RD TBG EOT 4918' SECURE WELL SDFN
	09:00 - 15:00	6.00	C	04		CREW TRAVEL FROM LOC
	15:00 - 17:30	2.50	C	04		HSMRIH W/ 140 JTS 2 7/8 N-80 EUE TBG. SET TAC 8972', PSN @ 9197', EOT 9301'.
11/19/2009	17:30 - 18:30	1.00	C	06		ND BOPS NU WELLHEAD AND FLOWLINE.
	07:00 - 09:00	2.00	C	04		FLUSH TBG W/ 60 BBLs .
	09:00 - 10:00	1.00	C	10		PU AND PRIMED 2 1/2"X1 1/2"X28' RHBC.RIH W/ PUMP AND RODS, 24-1", 119-3/4, 119- 7/8, 96-1". SPACED OUT RODS W/ 1-2',1-4',1-6,1-8'X1"SUBS. PU POLISH ROD FILLED TBG W/ 1 BBL
	10:00 - 11:00	1.00	C	08		PRESS AND STROKE TEST @ 1000 PSI HELD.
	11:00 - 14:00	3.00	C	04		RU ARMS ON PUMPING UNIT. RU HORSES HEAD. RD RIG CLEANED LOCATION MOVED RIG TO THE 3-4 B3. SDFN
	14:00 - 17:00	3.00	C	18		

RECEIVED January 15, 2010



EL PASO PRODUCTION
Operations Summary Report

Legal Well Name:	BROTHERSON 1-14B4	Spud Date:	10/10/1970
Common Well Name:	BROTHERSON 1-14B4	Start:	11/25/2009
Event Name:	RECOMPLETION	End:	11/28/2009
Contractor Name:	MILES	Rig Release:	11/28/2009
Rig Name:	MILES	Group:	
		Rig Number:	3

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
11/26/2009	07:00 - 08:00	1.00	C	06		ROAD RIG FROM ELLSWORTH 1-16B4
	08:00 - 09:00	1.00	C	06		MIRU
	09:00 - 10:30	1.50	C	08		RD UNIT LD POLISH ROD UNSEAT PMP PU POLISH ROD FLUSH 2 7/8" TBG w 55 BBLS OF HOT 2% KCL
	10:30 - 14:00	3.50	C	04		LD POLISH TOH w 97-1" 121-7/8" 122-3/4" 24-1" RODS LD 2 1/2" X 1 1/2" X 28' PMP... PMP HAD SCALE BUILD UP ON PULL ROD AND IN PMP.
	14:00 - 18:00	4.00	C	08		PMP 1 BBL PARAFFIN INHIBITOR 10 BBLS OF 2%KCL 1 BBLS OF SCALE INHIBITOR 10 BBLS OF 2% 3 BBLS OF ACID 64 BBLS OF HOT 2% KCL SHUT 2 7/8" TBG IN...PMP 100 BBLS OF HOT 2% KCL DWN ANNULAS SECURE WELL RD HOT OIL TRUCK SHUT DWN TILL AM FRIDAY 11/27/09
11/27/2009	-	1.00	C	06		CREW TRAVEL FROM LOC NO ACTIVITY DWN FOF HOLIDAY
11/28/2009	06:00 - 07:00	1.00	C	06		CREW TRAVEL TO LOC HSM JSA
	07:00 - 08:00	1.00	C	08		TSIP=0 PSI FLUSH 2 7/8" TBG w 30 BBLS OF HOT 2% KCL PU AND PRIME 2 1/2" X 1 1/2" X 28' RHBC INSERT PMP
	08:00 - 14:00	6.00	C	04		TIH w 24-1" 122-3/4" 121-7/8" 97-1" RODS SPACE OUT PMP w 2,4,6,8, x 1" PONY RODS PU POLISH ROD FILL 2 7/8" TBG w 1 BBLS OF 2% KCL STROKE TEST PMP TO 1000 PSI...TEST GOOD...RU UNIT RDMO TURN WELL OVER TO PRODUCTION

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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	8. WELL NAME and NUMBER: BROTHERSON 1-14B4
2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP	9. API NUMBER: 43013300510000
3. ADDRESS OF OPERATOR: 1099 18th ST, STE 1900 , Denver, CO, 80202	PHONE NUMBER: 303 291-6417 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 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: 11/7/2009	<input 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 checked="" 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 type="checkbox"/> OTHER	OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EL PASO E & P SUBMITS THIS NOTICE OF INTENT FOR RECORD PURPOSES, AS THE WORK WAS DONE PRIOR TO SUBMITTAL AND APPROVAL OF INTENT TO RECOMPLETE. I SPOKE WITH DOGM, DUSTIN DOUCET, TO INFORM HIM OF THE SITUATION. IT WAS DETERMINED TO SUBMIT NOI FOR RECORD. SUBSEQUENT REPORT OF WORK DONE FOLLOWS ON THIS DATE 1/15/10.

Accepted by the Utah Division of Oil, Gas and Mining

Date: January 25, 2010

By: Dustin Doucet

NAME (PLEASE PRINT) Marie Okeefe	PHONE NUMBER 303 291-6417	TITLE Sr Regulatory Analyst
SIGNATURE N/A		DATE 1/15/2010



**RECOMPLETION PROGNOSIS
SHELL BROTHERSON 1-14B4**

API #: 4301330051
SEC 14-T2S-R4W
DUCHESNE COUNTY, UT

WELL DATA 1
 CASING SIZES 1
 RECOMPLETION PROGNOSIS: 2
 STIMULATION OF LGR 9,212-10,140' 3
 PROPOSED PERFORATIONS 4
 CURRENT BHA 5

WELL DATA

ELEVATIONS: GL 6,121' KB 6141'
 FORMATION TOPS: GREEN RIVER, TGR3 @ 9,055'; WASATCH @ 10,590'
 BHST 189 DEG F @ 9,812' 12/70
 TOTAL DEPTH: 12,998'
 PBTD: 11,430' 6/81

CASING SIZES

CSG Size	Weight	Grade	Bottom	Top	CMT SX	Burst	Collapse
13 3/8	54.5	K-55	310	0	400	2730	1130
9 5/8	40	S-95	7100	0	350	6820	4230
7 5/8	33.7	S-95	9921	6879	128	9380	8800
5 1/2	20	N-80	11905	9657	400	9190	8830
3 1/2	10.3	N-80	12998	11868	0	11560	12120
5 1/2	17	K-55	9657	5670	300	5320	4910

ACTIVE PERFS: 10,318-11,420'

PACKERS & PLUGS:
BP @ 11430 set 6/81

RECOMPLETION PROGNOSIS:

1. MIRU PU. Blow well down to tank. POOH with rods and pump. MIRU PU. Remove wellhead equipment and NU 5000# BOPE. Flush TBG clean.
2. Release TAC @ 9,596' & TOOH w/ 2 7/8" 6.5# N80 TBG and BHA.
3. RIH with following workstring to 10,400' and circulate to clean wellbore
 - a. ~4-5/8" bit (close to but less than 4.651 drift of 5-1/2" casing)
 - b. 5-1/2" casing scraper
 - c. 4730' tubing (round up to next joint no need to pick up pups for exact spacing)
 - d. 9-5/8" casing scraper
 - e. Tubing to surface
4. If tubing will not go to TD estimate hang up point to determine which string of casing needs to be cleaned out
 - a. PU above hang up point
 - b. RIH slowly until weight indicator first shows restriction
 - c. Mark tubing 5' off floor
 - d. Slack off 20kips
 - e. Record distance the mark travels
 - f. Restriction depth = stretch (in inches) * 2208.5 / 3.5 * ppf of tubing / weight indicator change (kips)
 - g. For this case with 20 kips slack off and 6.5ppf tubing
 - i. Restriction depth = Stretch * 631 * 6.5 / 20
5. Pick up appropriate size bit and scraper to clean out the casing that the bit or scraper could not pass by.
6. Run GR/CCL from 10,400-5,600' and confirm top perf @ 10,318' and TOL @ 5,670'. RIH w/ 5-1/2" CBP to 10,200'. Dump 10' cement on top. Note: Email GR to Alexander.erhardt@el Paso.com and greg.clark@el Paso.com ASAP. The GR will be needed to slip the remaining perfs to cased hole depth due to a composite log being used to pick perfs.
7. Pressure test casing to 1,500 PSI. If casing does not test, isolate leak, squeeze and drill out. Re-test to 1,500 PSI. ND 5,000 PSI BOPE. NU 10,000 PSI BOPE and test to 9,975 PSI for 15 min.
8. RU WL and perforate LGR interval 9,212'-10,140' per attached perf sheet with 3 1/8" HSC guns loaded as noted on SPF, 120 degree phasing w/ 22.7 gram premium charges. Record any pressure changes. Note: proposed perfs depths are

subject to change, however, the shot density will remain the same. Actual perfs will be picked after GR log run in step 3 above.

9. RIH w/ 5-1/2" treating PKR with circulating port and 2-7/8" X 3-1/2" frac string as needed to enter 5-1/2" casing. Set PKR 200' above top perforation at approximately 9,000' and install frac valve.

STIMULATION OF LGR 9,212-10,140'

10. MIRU Stimulation company.

Base fluid is fresh water w/ 2% KCL substitute, scale inhibitor, biocide, and 2.0 gpt MA-844 provided by frac company and heated to 120 degrees F. Estimated BHST is 187 degree F at 9,676' mid perfs. Maximum allowable treating pressure is 8,500 PSI. Anticipated frac gradient is .75 psi/ft. Pressure annulus to 1,000 PSI.

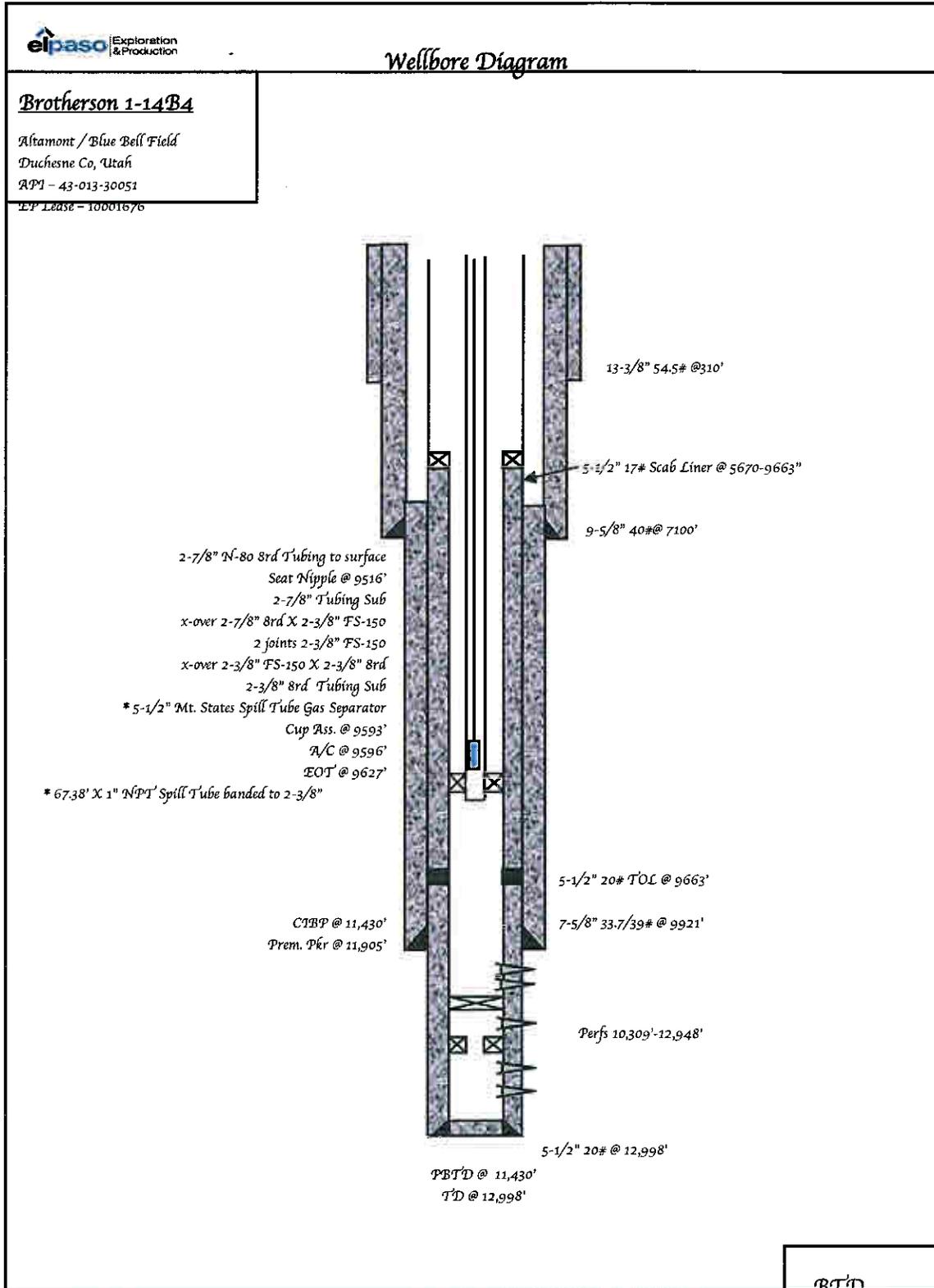
Acidize formation with 25,000 gallons 15% HCl acid at 35 to 45 bpm in five 5,000 gallon stages with 1,500 gal spacers. Run 80 Bio-Ball (brown or green color) sealers evenly dispersed in the acid per stage and rock salt for diversion. **Maximum allowable surface pressure is 8,500 psi.** Acid to contain corrosion, scale inhibitor and acid and flush fluids are to contain 2.0 gpt MA-844. Overflush acid 10 bbls to bottom perf with 2% KCl substitute water. Shut down. Isolate well head and continue to monitor well head pressure with stimulation company's data recorder for 15 minutes. RD&MO stimulation company.

11. Flow test well for 24 hours recording hourly rates and pressures.
12. MIRUPU if moved off for acid job.
13. Open by-pass on PKR and kill well. Release PKR and LD 3-1/2" X 2-7/8" frac string.
14. PU production assembly, hydrotest TBG into well, and RTP.
15. RDMOL and clean up location.

PROPOSED PERFORATIONS

ZONE	TOP	BOTTOM	HEIGHT	SPF	# SHOTS
1	9212	9215	3	3	9
2	9242	9244	2	3	6
3	9299	9301	2	3	6
4	9304	9306	2	3	6
5	9333	9336	3	3	9
6	9368	9370	2	3	6
7	9378	9379	1	3	3
8	9393	9395	2	3	6
9	9433	9434	1	3	3
10	9444	9447	3	3	9
11	9460	9461	1	3	3
12	9471	9472	1	3	3
13	9517	9518	1	3	3
14	9523	9524	1	3	3
15	9529	9531	2	3	6
16	9532	9534	2	3	6
17	9544	9546	2	3	6
18	9576	9578	2	3	6
19	9584	9587	3	3	9
20	9599	9602	3	3	9
21	9606	9608	2	3	6
22	9613	9614	1	3	3
23	9668	9670	2	3	6
24	9679	9680	1	3	3
25	9776	9778	2	3	6
26	9800	9802	2	3	6
27	9838	9840	2	3	6
28	9946	9948	2	3	6
29	9950	9952	2	3	6
30	9991	9993	2	3	6
31	10036	10038	2	3	6
32	10055	10056	1	3	3
33	10066	10068	2	3	6
34	10077	10078	1	3	3
35	10080	10081	1	3	3
36	10103	10104	1	3	3
37	10107	10108	1	3	3
38	10112	10113	1	3	3
39	10139	10140	1	3	3
ZONES	GROSS		NET		# SHOTS
39	928		68		204

CURRENT BHA



6/25/04

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

6/1/2012

FROM: (Old Operator): N3065- El Paso E&P Company, L.P. 1001 Louisiana Street Houston, TX. 77002 Phone: 1 (713) 997-5038	TO: (New Operator): 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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
See Attached

2. NAME OF OPERATOR:
El Paso E&P Company, L.P. Attn: Maria Gomez

9. API NUMBER:

3. ADDRESS OF OPERATOR:
1001 Louisiana CITY Houston STATE TX ZIP 77002 PHONE NUMBER: (713) 997-5038

10. FIELD AND POOL, OR WILDCAT:
See Attached

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **See Attached**

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: **UTAH**

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

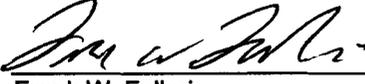
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER 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: Change of Name/Operator
	<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 E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.


Frank W. Falleri
Vice President
El Paso E&P Company, L.P.


Frank W. Falleri
Sr. Vice President
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez

TITLE Principal Regulatory Analyst

SIGNATURE Maria S. Gomez

DATE 6/22/2012

(This space for State use only)

RECEIVED

JUN 25 2012

DIV. OF OIL, GAS & MINING

APPROVED 6/29/2012

Rachel Medina

(See Instructions on Reverse Side)

Division of Oil, Gas and Mining

Earlene Russell, Engineering Technician

Rachel Medina

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	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	8. WELL NAME and NUMBER: BROTHERSON 1-14B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 Township: 02.0S Range: 04.0W Meridian: U	9. API NUMBER: 43013300510000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	COUNTY: DUCHESNE
STATE: UTAH	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: 9/20/2013	<input 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 checked="" 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 type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 07, 2013

By: *D. K. Duff*

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 9/9/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013300510000

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Add Plug #3B: A 200' cement plug shall be balanced from 3400' to 3200' to isolate the Base of Moderately Saline Ground Water and the offset Salt Water Disposal zones as required by R649-3-24-3.3. This plug shall be an inside/outside plug. RIH and perforate @ 3400'. Establish circulation down the 9 5/8" casing back up the 9 5/8" x 13 3/8" annulus. If injection into the perms cannot be established a 200' plug (± 81 sx) shall be balanced from $\pm 3450'$ to 3250'. If injection is established: RIH with CICR and set at 3350'. M&P 173 sx cement, sting into CICR pump 112 sx, sting out and dump 61 sx on top of CICR.**
- 3. Add Plug #3C: This plug shall be an inside/outside plug. RIH and perforate @ 350'. Establish circulation down the 9 5/8" casing back up the 9 5/8" x 13 3/8" annulus. If injection into the perms cannot be established a 150' plug (± 65 sx) shall be balanced from $\pm 400'$ to 250'. If injection is established: RIH with CICR and set at 300'. M&P 81 sx cement, sting into CICR pump 61 sx, sting out and dump 20 sx on top of CICR. This will isolate the surface casing shoe as required by rule R649-3-24-3.6.6. Note: Can circulate to surface if preferred. 50' plug at surface will be adequate if this plug is set as prescribed as well.**
- 4. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 5. All annuli shall be cemented from a minimum depth of 50' to the surface.**
- 6. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 7. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 8. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 9. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

11/7/2013

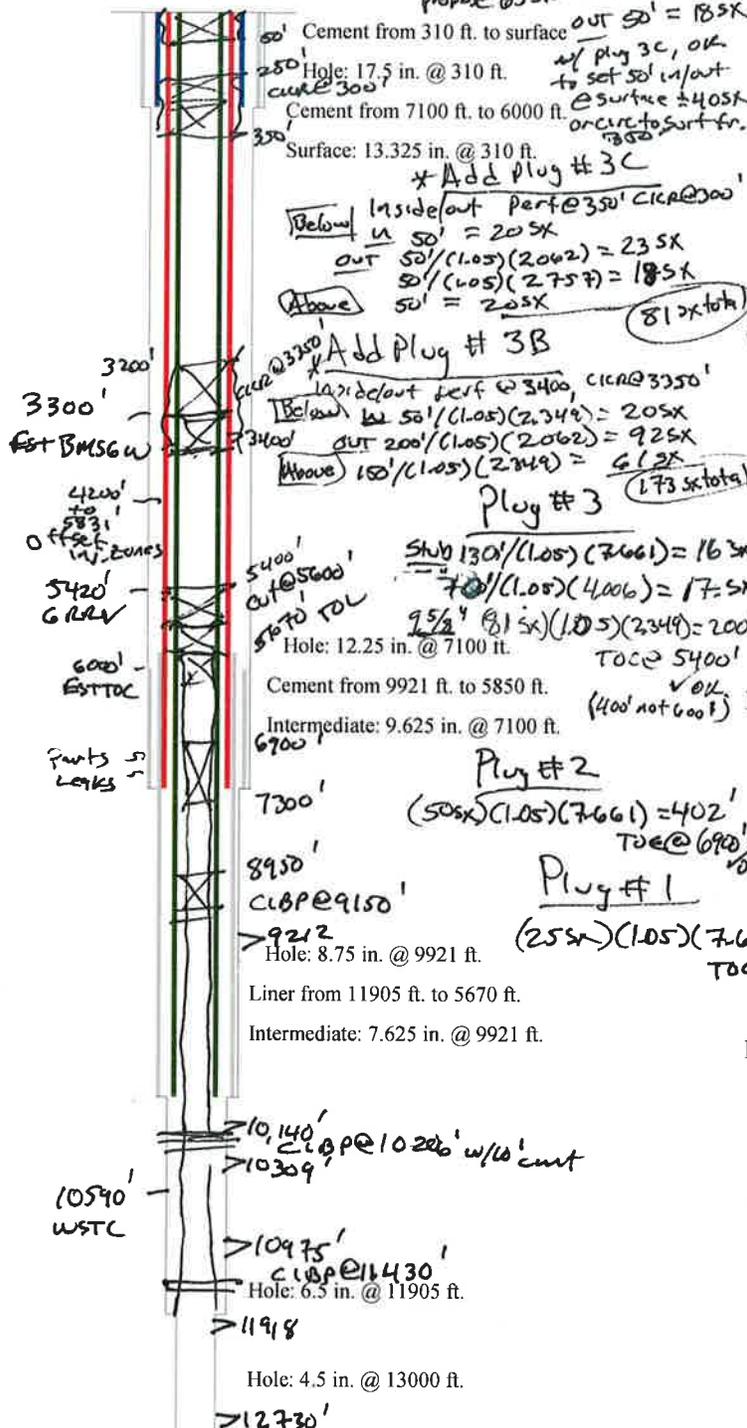
Wellbore Diagram

r263

API Well No: 43-013-30051-00-00 Permit No: Well Name/No: BROTHERSON 1-14B4
 Company Name: EP ENERGY E&P COMPANY, L.P.
 Location: Sec: 14 T: 2S R: 4W Spot: SENE
 Coordinates: X: 559763 Y: 4462293
 Field Name: ALTAMONT
 County Name: DUCHESNE

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (F/cf)
HOL1	310	17.5			
SURF	310	13.325	54.5		
HOL2	7100	12.25			
I1	7100	9.625	40		2.349
HOL3	9921	8.75			
I2	9921	7.625	33.7		4.006
HOL4	11905	6.5			
L1	11905	5.5	20		
L1	11905	5.5	17	3997	7.661
HOL5	13000	4.5			
L2	12998	3.5	10.3		



Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
I1	7100	6000	50	200
I1	7100	6000	G	150
I2	9921	5850	HG	128
I2	9921	5850	G	100
L1	11905	5670	G	400
L1	11905	5670	PA	300
SURF	310	0	G	400

Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
9212	10140			
10309	10975			
11918	12730			

Formation Information

Formation	Depth
BMSW	3300
GRRV	5420
WSTC	10590

offset injectors
 4301330038 - 5382' S → 4204' to 5831'

TD: 13000 TVD: PBD:



9/5/2013

Brotherson 1-14B4

API # 43-013-30051

Altamont Field – Duchesne County, Utah

SE/4 – NE/4

Section 14, T 2 S, R 4 W

2,100' FNL & 750' FEL

Lat. = 40°18'32.5794" Long. = -110°17'45.384"

Regulatory

Plug & Abandonment Procedure

CURRENT STATUS:

This well has been shut-in since May 2011 with +/-286 jts 2-7/8" 6.5# N-80 8rd tubing.

BI	Unknown	Casing Flu	Produced Fluid
BI	Unknown	TD:	12,998'
SI	Unknown	PBTD:	10,206'
SI	Unknown	KB:	6,141'
		GL:	6,121'
		KB-GL:	20'



9/5/2013

Proposed P&A



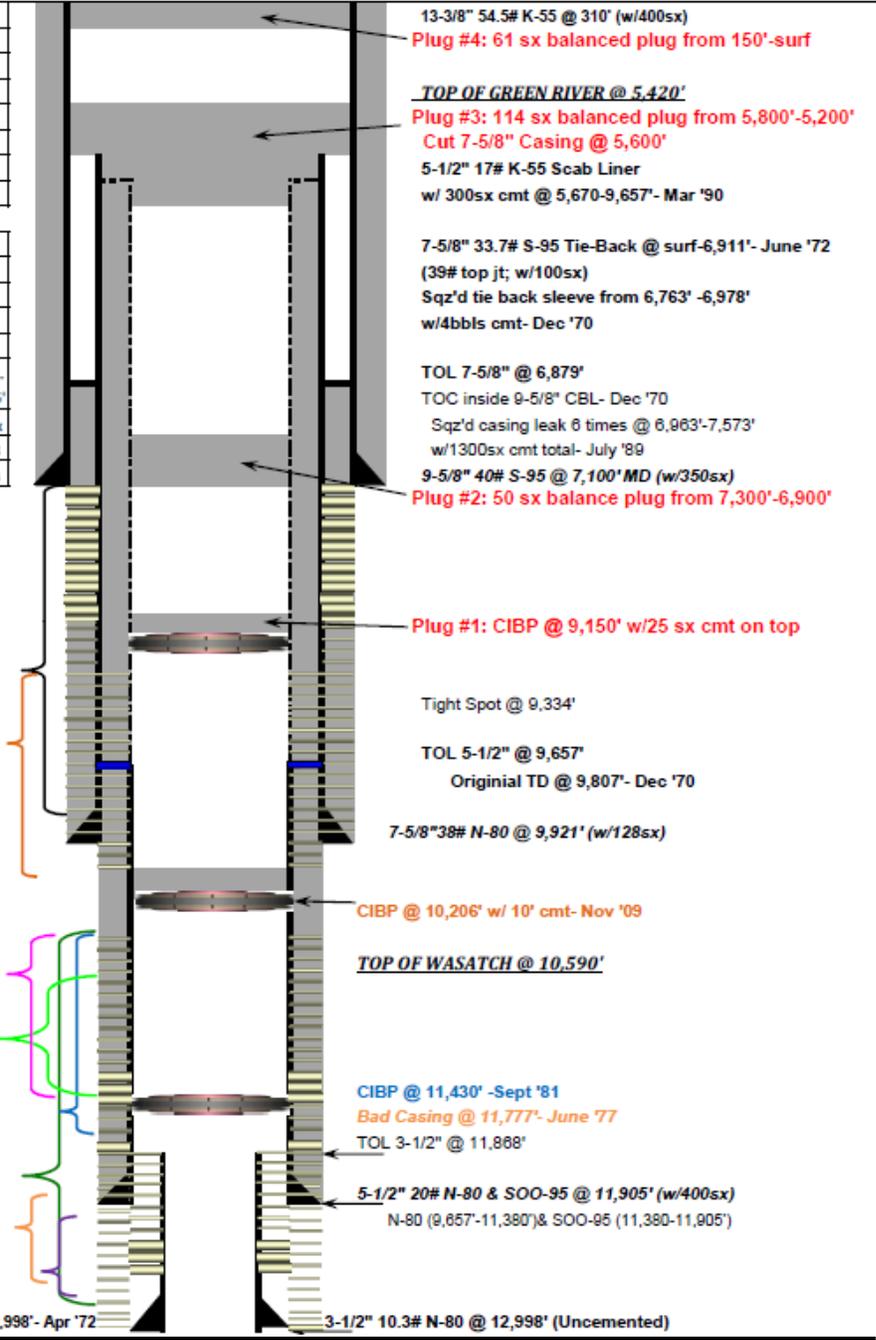
Company Name: EP Energy
 Well Name: Brotherson 1-14B4
 Field, County, State: Alfamont - Bluebell, Duchesne, Utah
 Surface Location: _____
 Producing Zone(s): _____

Last Updated: September 5, 2013
 By: I. Tomova
 TD: 12,998'
 BHL: _____
 Elevation: _____

*Cement to be used: 16.4ppg, 1.05 yield Class G cement

Plug Summary					
	Bottom	Top	Length	BBLs	SX
Plug # 4	150	0	150	11	61
Plug # 3	5800	5200	600	21	114
Plug # 2	7300	6900	400	9	50
Plug # 1	9150	8950	200	5	25
*100% excess in OH			Total:	47	249

Casing and Cementing Data					
Hole Size	12-1/4"				
Casing OD	9-5/8"	7-5/8"	5-1/2"		
Casing Wt	40#	33.7#	38#	17#	20#
Grade	S-95	S-95	N-80	K-55	N-80
Depth	7,100'	6,875'- 9,921'	surf- 6,911'	5,670'- 9,657'	9,657'- 11,905'
Cmt Info	350 sx	128 sx	100 sx	300 sx	400 sx
Casing ID	8.835	6.765	6.625	4.892	4.778
Drift ID	8.679	6.64	6.5	4.767	4.653



Orinial Completion- Dec '70
 7,100'-9,807' (Open Hole Comp)

GR Infill Perfs- Nov '09
 9,212'-10,140' (82'/204holes)
 25,000gal 15% HCl

10,309'-11,421' 1,000gals 15% HCl - Apr '02
 12,00 gal 15% HCl - Jan '83
 15,120gal 15% HCl - Aug '82
 10,605'-11,420' (86'/257holes) - Mar '90
 10,000 Gals 15% HCl
 10,600'-11,420' (378'/126holes)- Sept '81
 21,500 Gals 7.5% HCl
 10,309'-11,689' - July '81
 20,000 Gals 7.5% HCl
 10,309'-12,919' (76'/76holes) - June '72
 20,000 Gals 15% HCl
 11,918'-12,498' (42'/42holes) - Jan '77
 6,720 Gals 15% HCl
 12,070'-12,730' (31'/31holes) - Sept '76



9/5/2013

Tubular Data

Material	Description	Burst (100%)	Col (100%)	ID	Drift ID	Capacity (bbl/ft)	TOC
Surface Casing	9-5/8" 40# S-95 @ 7,100'	6820	4230	8.835	8.679	0.0758	Surface
Tieback Sleeve	7-5/8" 33.7# S-95 @ 6,911'	9380	8800	6.765	6.64	0.0445	???
Intermediate Casing	7-5/8" 38# N-80 @ 6,879'-9,921'	9180	8820	6.625	6.5	0.0426	TOL
Scab Liner	5-1/2" 17# K-55 @ 5,670'-9,657'	5320	4910	4.892	4.767	0.0232	TOL
Production Liner	5-1/2" 20# N-80 @ 9,657'-11,905'	8990	8830	4.778	4.653	0.0222	TOL
Production Tubing	2-7/8" 6.5# N-80 8rd	10570	11160	2.441	2.347	0.0058	N/A

Plug & Abandonment Procedure

- Testing tubing, use workstring and use CIBP/CICR as per Magna's recommendation.
1. Notify **Dan Jarvis w/ UDOGM @ 801-538-5338** and BLM of P&A operations **at least 24 hours** prior to start of well work (See Contact List).
 2. MIRU workover rig. RU Hot Oil Unit and pump hot water down 2-7/8" tbg to heat up tubing. Unseat pump and flush tubing & rods with hot water. POOH w/rods & pump.
 3. Send pump in for inspection & rebuild. ND tree and NU and test BOP's to 5,000# for 10 minutes. Have test recorded and charted to be signed and dated by well site supervisor. Record BOP serial number.
 4. Release tubing anchor at 8,969' and POOH w/286 jts 2-7/8" tbg, scanning tubing for wear. Lay out all bad joints. Check for NORM (*If no NORM is found, note it in the daily report; If NORM is found in the tubing; Follow EP Energy procedures and chain of custody paperwork for handling, wrapping and transporting NORM tubing to a proper cleaning or disposal site)
 5. MIRU E-line, RIH w/ GR (check min setting OD on CICR/CIBP to be ran) to 9,200', if tag reach 9,200' then processed to Step 7, otherwise continue with procedure. RD E-line
 6. PU 4-5/8" RB, 5-1/2" 17# casing scraper, 2 x 3 1/2" drill collars on 2 7/8" tubing (or 2-3/8 workstring). Work down to **9,200'** and attempt to establish circ with FSW, circ until returns clean. POOH. If perforations take fluid on way in, mix a 10 bbl HEC pill and circulate around or spot as needed.

Plug #1

7. PU & MU a 5-1/2"- (17#) mechanical set CIBP on the work-string and TIH to $\pm 9,150'$. Set **CIBP @ $\pm 9,150'$** (above top of perms @ 9,212'). Get off of CIBP & establish circulation.
8. Mix cement plug with **± 25 sacks (± 5 bbls)** of 16.4ppg 1.05 yield Class G cement. Lay in a **$\pm 200'$** balanced cement plug from **9,150' to 8,950' on top of the CIBP.**
9. Test casing & CIBP to 1,000# watch for leak off for 15 min.
10. PU above cement and Reverse circulate the hole clean; Monitor surface samples of cement to determine when the cement has set up. WOC.
11. Run back in and tag plug. If tag is lower than top of proposed plug, contact Houston.



9/5/2013

12. Circulate around non-corrosive fluid to 7,300'. POOH

Plug #2

13. Pull up to 7,300'.

14. Mix cement plug with **±50 sacks (±9bbls)** of 16.4ppg 1.05 yield Class G cement. Lay in a **±200'** balanced cement plug from **7,300' - 6,900'**.

15. PU above cement and reverse circulate the hole clean; Monitor surface samples of cement to determine when the cement has set up. WOC.

16. Run back in and tag plug. If tag is lower than top of proposed plug, contact Houston.

17. Circulate around non-corrosive fluid to 5,800'. POOH

18. MIRU E-line. PU & MU free point tool & check where csg is free. POOH. If csg free above 5,600' continue with procedure otherwise contact Houston.

19. PU & MU 7-5/8" jet-cutter assembly; Test lubricator to 250psig/3000psig; RIH to **±5,600'**; Pressure up to 500psig on casing and jet **cut 7-5/8" casing at ±5,600'**; POOH. RD ELU.

20. Establish circulation down the 7-5/8" and up the 7-5/8" by 9-5/8" annulus.

21. RU 7-5/8" casing handling equipment; PU & MU casing spear on tbg; Land and set the 7-5/8" csg spear

22. POOH & LD 5,600' of 7-5/8" csg.

23. Check for Norm.

Plug #3

24. RIH open ended w/ workstring to 5,800'.

25. Mix cement plug with **±114 sacks (±21bbls)** of 16.4ppg 1.05 yield Class G cement. Lay in a **±600'** balanced cement plug from **5,800' to 5,200'** (above Top of Green River @ 5,420').

26. PU above cement and reverse circulate the hole clean; Monitor surface samples of cement to determine when the cement has set up. WOC.

27. Run back in and tag plug. If tag is lower than top of proposed plug, contact Houston.

28. Circulate around non-corrosive fluid to 150'.

Plug #4

29. RIH open ended to 150'. Mix and circulate a **±150'** balanced cement plug from 150' to surface with **±61 sacks (±11bbls)** of 16.4ppg 1.05 yield Class G cement. Pump cement from surface until cement returns up the backside. POOH. With 1 jt left, circ around fresh water @ top 5'. WOC; Monitor surface samples of cement to determine when the cement has set up.

30. RU casing cutting equipment; Cut the remaining casing at $\geq 3'$ below GL

31. Weld and install dry hole plate. Dry hole plate is to include the following:

1. Well Name:	<u>Brotherson 1-14B4</u>
2. Operator Name :	<u>EP Energy</u>
3. API Number:	43-013-30051
4. Location:	<u>SE/4 NE/4 - 14, T 2 S, R 4 W</u>



9/5/2013

- 32. RD&MO rig & clean up location.
- 33. Restore location as directed.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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	8. WELL NAME and NUMBER: BROTHERSON 1-14B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013300510000	
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/24/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Please see attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 18, 2014		
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 8/17/2014	

Brotherson 1-14B4 43013300510000

- Set CICR @ 9136' & pumped 30 sx 1.05 yield class G balanced plug. Tagged cement top @ 8931' (205' plug). Pressure tested to 500 psi – good test.
- Pulled up to 7290'. Pumped 50 sx 1.05 yield class G balanced plug. Tagged cement @ 6852' (438' plug).
- POOH to 5800'. Cut window in 13 3/8" & 9 5/8" casing. Cut and dropped 7 5/8" casing. Fished 7 5/8" casing. Cut casing @ 4189'.
- Tripped in hole open ended to 5734'. Pumped plug across 9 5/8" shoe with 30 sx 1.05 yield class G. Circulated hole clean. Tagged cement plug @ 5610' & spotted 90 sx balanced plug @ 5610' to cover top of green river @ 5420'. Tagged cement @ 5157'.
- POOH to 4277' and pumped 80 sx 1.05 yield class G cement. Tagged cement @ 3952' (325' plug).
- Shot 4 perfs @ 3400'. Established circulation. Perf'd casing @ 350'. TIH & set 9 5/8" CICR @ 3340'. Pumped 121 sx 1.05 yield class G cement through CICR into perfs. Stung out of CICR & pumped 65 sx balanced plug. Circulated well clean. Tagged cement @ 3190' (150' plug). Circulated hole clean.
- Pumped 250 sx 1.05 yield class G down 9 5/8" & 13 3/8" to surface. Welded on marker plate.

CENTRAL DIVISION

ALTAMONT FIELD
BROTHERSON 1-14B4
BROTHERSON 1-14B4
P&A LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	BROTHERSON 1-14B4		
Project	ALTAMONT FIELD	Site	BROTHERSON 1-14B4
Rig Name/No.	MAGNA/026	Event	P&A LAND
Start date	2/11/2014	End date	2/25/2013
Spud Date/Time	10/10/1970	UWI	014-002-S 004-W 30
Active datum	KB @6,141.0ft (above Mean Sea Level)		
Afe No./Description	161691/49675 / BROTHERSON UNIT 1-14 B4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/12/2014	14:00 17:00	3.00	MIRU	01		P		MOVE RIG AND EQUIPMENT IN AND RIG UP RIG. PREPARE LOCATION TO P&A. CASSING SHUT IN PRESSURE @ 500 PSI. BLEED PRESSURE DOWN . SHUT WELL IN, SHUT DOWN FOR NIGHT
2/13/2014	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN RODS AND TUBING, BODY AND HAND POSITION) FILL OUT AND REVIEW JSA. HOT HOIL TRUCK IS PUMPING DOWN CASING
	7:30 8:00	0.50	PRDHEQ	06		P		FLUSH TUBING WITH 60 BBLS TPW
	8:00 15:00	7.00	PRDHEQ	24		P		LAY DOWN POLISH ROD AND SUBS, 97-1" EL RODS, 121-7/8" EL RODS, 122-3/4" AND 28-1" RODS AND ROD PUMP FLUSHINGF AS NEEDED TO KEEP CLEAN
	15:00 16:30	1.50	PRDHEQ	18		P		CHANGE OVER TO PULL TUBING,NIPPLW DOWN WELLHEAD AND NIPPLE UP BOP. RIG UP RIG TO PULL TUBING.
	16:30 17:30	1.00	PRDHEQ	24		P		RELEASE TAC AND POOH WITH 30 JOINTS TUBING. SECURE WELL SHUT DOWN FOR DAY
2/14/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN TUBING, PINCH POINTS, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	06		P		CIRCULATE WELL CLEAN WITH 150 BBLS TPW.
	8:30 13:00	4.50	WOR	24		P		CONTINUE LAYING DOWN 2 7/8" PRODUCTION TUBING AND BOTTOM HOLE ASSEMBLY.
	13:00 13:30	0.50	WOR	18		P		CHANGE OVER TO RUN 2 3/8" TUBING
	13:30 17:00	3.50	WOR	24		P		TRIP INTO TO WELL WITH 4 3/4" BIT AND 284 JOINTS TUBING TO 9202'
	17:00 17:30	0.50	WOR	39		P		POOH WITH 24 JOINTS TUBING AND SHUT WELL IN. SHUT DOWN FOR DAY
2/15/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (TRIPPING TUBING SAFELY, BODY POSITIONING. HOUSE KEEPING) FILL OUT AND REVIEW JSA
	7:30 10:00	2.50	WOR	39		P		FINISH TRIPPING OUT OF HOLE WITH BIT
	10:00 13:30	3.50	WOR	27		P		PICK UP 5 1/2" CICR AND TIH SETTING @ 9136'
	13:30 15:00	1.50	WOR	06		P		FILL HOLE WITH 100 BBLS TPW AND CIRCULATE CLEAN
	15:00 15:30	0.50	WBREMD	05		P		PUMP A 30 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	15:30 16:00	0.50	WOR	39		P		POOH WITH 1000' TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 18:30	2.50	WOR	06		P		REVERSE CIRCULATE TUBING CLEAN. CIRCULATE WELLBORE CLEAN. SECURE WELL. SHUT DOWN FOR WEEKEND
2/16/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/17/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/18/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (HOUSEKEEPING, BODY POSITIONING, HAND PLACEMENT) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TIH AND TAG CEMENT TOP @ 8931' FOR A 205' PLUG. PRESSURE TEST CASING TO 500 PSI. TEST GOOD. BLEED OFF
	8:00 9:00	1.00	WBREMD	24		P		POOH TO 7290' LAYING DOWN TUBING
	9:00 9:30	0.50	WBREMD	05		P		PUMP A 50 SACK 16.4 PPG, 1.05 YIELD, CLASS G CEMENT BALANCED PLUG
	9:30 10:00	0.50	WBREMD	06		P		POOH WITH 1000' TUBING AND REVERSE CIRCULATE TUBING CLEAN.
	10:00 14:00	4.00	WBREMD	41		P		WAIT FOR CEMENT TO CURE. CLEAN OUT CELLAR WHILE WAITING ON CEMENT. BLEED OFF 9 5/8" AND 13 3/8" CASING
	14:00 14:30	0.50	WBREMD	39		P		TIH AND TAG CEMENT @ 6852' FOR A 438' PLUG
	14:30 16:30	2.00	WBREMD	39		P		POOH STANDING 5800' OF TUBING IN DERRICK AND LAYING DOWN REMAINING TUBING
	16:30 18:30	2.00	WBREMD	18		P		NIPPLE DOWN BOP, CUT A WINDOW IN 13 3/8" AND IN 9 5/8" CASING CUT AND DROP 7 5/8" CASING. FISH 7 5/8" CASING STUB AND SLIPS. NIPPLE UP BOP AND SECURE WELL FOR NIGHT
2/19/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING CASING WORKING WITH HEAVY LOADS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 11:30	4.00	WBREMD	18		P		RIG UP E/L TRUCK, FREE POINT AND CUT CASING @ 4189'. RIG DOWN E/L TRUCK
	11:30 14:00	2.50	WBREMD	18		N		CASIN IS ULTRA FLUSH. SECURE WELL AND WAIT ON SLIP TYPE ELEVATORS
	14:00 14:00	0.00	WBREMD	18		P		SHUT DOWN FOR DAY
2/20/2014	6:00 7:30	1.50	PULLCSG	28		P		CREWTRAVEL, SAFETY MEETING (LAYING DOWN CASING, USING LARGE SLIP TYPE ELEVATORS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 16:00	8.50	PULLCSG	24		P		RIG UP TO PULL CASING, LAY DOWN 93 JOINTS 7 5/8" CASING, RIG DOWN CASING EQUIPMENT
	16:00 17:00	1.00	WBREMD	16		P		NIPPLE UP BOP, SECURE WELL, RIG UP TO RUN TUBING. SHUT DOWN FOR DAY
2/21/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (BODY POSITIONING, HOUSE KEEPING, SLIPS TRIPS AND FALLS) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	39		P		TRIP INTO HOLE OPEN ENDED TO 5734'
	8:30 16:00	7.50	WBREMD	05		P		PUMP PLUG 3A ACROSS 95/8" SHOE WITH 30 SACKS 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. CIRCULATE WELLBORE CLEAN WITH CORROSION INHIBATED TPW. TAG CEMENT PLUG @ 5610' AND SPOT 90 SACK BALANCED CEMENT PLUG @ 5610 TO COVER TOP OF GREEN RIVER @ 5420". POOH WITH 1000' TUBING. WOC AND TAG @ 5157'
	16:00 17:30	1.50	WBREMD	39		P		POOH TO 4277' AND PUMP 80 SACK 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. SECURE WELL. SHUT DOWN FOR DAY
2/22/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (RIGGING UP E/L TRUCK, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TRIP INTO WELL AND TAG CEMENT ON PLUG 3B @ 3952' FOR A PLUG OF 325' WITH 246' ABOVE THE 7 5/8" CASING STUB'
	8:00 9:00	1.00	WBREMD	39		P		POOH WITH TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:00 10:30	1.50	WBREMD	21		P		RIG UP E/L TRUCK AND SHOOT 4 PERFHOLE @ 3400'. POOH AND ESTABLISH A 2 BBL A MINUTE RATE @ 200 PSI. TIH AND PERF CASING @ 350'. RIG DOWN E/L TRUCK
	10:30 11:00	0.50	WBREMD	16		P		NIPPLE DOWN BOP
	11:00 12:00	1.00	WBREMD	27		P		TIH AND SET 9 5/8" CICR @ 3340'
	12:00 13:00	1.00	WBREMD	05		P		PUMP 121 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT THUOUGH CICR INTO PERFS. STING OUT OF CICR AND PUM P65 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	13:00 16:00	3.00	WBREMD	41		P		POOH WITH 1000' TUBING CIRCULATE WELLBORE CLEAN AND WAIT ON CEMENT.
	16:00 17:30	1.50	WBREMD	24		P		TRIP INTO WELL AND TAG CEMENT @ 3190 FOR A CEMENT PLUG OF 150'. POOH LAYING DOWN TUBING TO 1000' SECURE WELL. SHUT DOWN FOR DAY
2/25/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING OFF WELLHEAD AND RIGGING DOWN RIG. DISCUSS HELP) FILL OUT AND REVIEW JSA. . CIRCULATE WELL BORE CLEAN FROM 1000'
	7:30 8:00	0.50	WBREMD	24		P		LAY DOWN REMAINING TUBING
	8:00 9:30	1.50	WBREMD	18		P		CUT WELLHEAD OFF AND WELD A TAPPED PLATE ON 9 5/8" CASING.
	9:30 10:30	1.00	WBREMD	05		P		PUMP 250 SACKS 16.4 PPG 1.05 YIELD CLASS G CEMENT PLUG DOWN 9 5/8" CASING AND UP 13 3/8" SURFACE PIPE TO SURFACE.
	10:30 14:30	4.00	RDMO	02		P		RIG DOWN RIG WHILE WAITING FOR CEMENT TO SET. WELD ON MARKER PLATE. MOVE OUT

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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	8. WELL NAME and NUMBER: BROTHERSON 1-14B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013300510000	
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/24/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Please see attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 18, 2014		
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 8/17/2014	

Brotherson 1-14B4 43013300510000

- Set CICR @ 9136' & pumped 30 sx 1.05 yield class G balanced plug. Tagged cement top @ 8931' (205' plug). Pressure tested to 500 psi – good test.
- Pulled up to 7290'. Pumped 50 sx 1.05 yield class G balanced plug. Tagged cement @ 6852' (438' plug).
- POOH to 5800'. Cut window in 13 3/8" & 9 5/8" casing. Cut and dropped 7 5/8" casing. Fished 7 5/8" casing. Cut casing @ 4189'.
- Tripped in hole open ended to 5734'. Pumped plug across 9 5/8" shoe with 30 sx 1.05 yield class G. Circulated hole clean. Tagged cement plug @ 5610' & spotted 90 sx balanced plug @ 5610' to cover top of green river @ 5420'. Tagged cement @ 5157'.
- POOH to 4277' and pumped 80 sx 1.05 yield class G cement. Tagged cement @ 3952' (325' plug).
- Shot 4 perfs @ 3400'. Established circulation. Perf'd casing @ 350'. TIH & set 9 5/8" CICR @ 3340'. Pumped 121 sx 1.05 yield class G cement through CICR into perfs. Stung out of CICR & pumped 65 sx balanced plug. Circulated well clean. Tagged cement @ 3190' (150' plug). Circulated hole clean.
- Pumped 250 sx 1.05 yield class G down 9 5/8" & 13 3/8" to surface. Welded on marker plate.

CENTRAL DIVISION

ALTAMONT FIELD
BROTHERSON 1-14B4
BROTHERSON 1-14B4
P&A LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	BROTHERSON 1-14B4		
Project	ALTAMONT FIELD	Site	BROTHERSON 1-14B4
Rig Name/No.	MAGNA/026	Event	P&A LAND
Start date	2/11/2014	End date	2/25/2013
Spud Date/Time	10/10/1970	UWI	014-002-S 004-W 30
Active datum	KB @6,141.0ft (above Mean Sea Level)		
Afe No./Description	161691/49675 / BROTHERSON UNIT 1-14 B4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/12/2014	14:00 17:00	3.00	MIRU	01		P		MOVE RIG AND EQUIPMENT IN AND RIG UP RIG. PREPARE LOCATION TO P&A. CASSING SHUT IN PRESSURE @ 500 PSI. BLEED PRESSURE DOWN . SHUT WELL IN, SHUT DOWN FOR NIGHT
2/13/2014	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN RODS AND TUBING, BODY AND HAND POSITION) FILL OUT AND REVIEW JSA. HOT HOIL TRUCK IS PUMPING DOWN CASING
	7:30 8:00	0.50	PRDHEQ	06		P		FLUSH TUBING WITH 60 BBLS TPW
	8:00 15:00	7.00	PRDHEQ	24		P		LAY DOWN POLISH ROD AND SUBS, 97-1" EL RODS, 121-7/8" EL RODS, 122-3/4" AND 28-1" RODS AND ROD PUMP FLUSHINGF AS NEEDED TO KEEP CLEAN
	15:00 16:30	1.50	PRDHEQ	18		P		CHANGE OVER TO PULL TUBING,NIPPLW DOWN WELLHEAD AND NIPPLE UP BOP. RIG UP RIG TO PULL TUBING.
	16:30 17:30	1.00	PRDHEQ	24		P		RELEASE TAC AND POOH WITH 30 JOINTS TUBING. SECURE WELL SHUT DOWN FOR DAY
2/14/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN TUBING, PINCH POINTS, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	06		P		CIRCULATE WELL CLEAN WITH 150 BBLS TPW.
	8:30 13:00	4.50	WOR	24		P		CONTINUE LAYING DOWN 2 7/8" PRODUCTION TUBING AND BOTTOM HOLE ASSEMBLY.
	13:00 13:30	0.50	WOR	18		P		CHANGE OVER TO RUN 2 3/8" TUBING
	13:30 17:00	3.50	WOR	24		P		TRIP INTO TO WELL WITH 4 3/4" BIT AND 284 JOINTS TUBING TO 9202'
	17:00 17:30	0.50	WOR	39		P		POOH WITH 24 JOINTS TUBING AND SHUT WELL IN. SHUT DOWN FOR DAY
2/15/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (TRIPPING TUBING SAFELY, BODY POSITIONING. HOUSE KEEPING) FILL OUT AND REVIEW JSA
	7:30 10:00	2.50	WOR	39		P		FINISH TRIPPING OUT OF HOLE WITH BIT
	10:00 13:30	3.50	WOR	27		P		PICK UP 5 1/2" CICR AND TIH SETTING @ 9136'
	13:30 15:00	1.50	WOR	06		P		FILL HOLE WITH 100 BBLS TPW AND CIRCULATE CLEAN
	15:00 15:30	0.50	WBREMD	05		P		PUMP A 30 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	15:30 16:00	0.50	WOR	39		P		POOH WITH 1000' TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 18:30	2.50	WOR	06		P		REVERSE CIRCULATE TUBING CLEAN. CIRCULATE WELLBORE CLEAN. SECURE WELL. SHUT DOWN FOR WEEKEND
2/16/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/17/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/18/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (HOUSEKEEPING, BODY POSITIONING, HAND PLACEMENT) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TIH AND TAG CEMENT TOP @ 8931' FOR A 205' PLUG. PRESSURE TEST CASING TO 500 PSI. TEST GOOD. BLEED OFF
	8:00 9:00	1.00	WBREMD	24		P		POOH TO 7290' LAYING DOWN TUBING
	9:00 9:30	0.50	WBREMD	05		P		PUMP A 50 SACK 16.4 PPG, 1.05 YIELD, CLASS G CEMENT BALANCED PLUG
	9:30 10:00	0.50	WBREMD	06		P		POOH WITH 1000' TUBING AND REVERSE CIRCULATE TUBING CLEAN.
	10:00 14:00	4.00	WBREMD	41		P		WAIT FOR CEMENT TO CURE. CLEAN OUT CELLAR WHILE WAITING ON CEMENT. BLEED OFF 9 5/8" AND 13 3/8" CASING
	14:00 14:30	0.50	WBREMD	39		P		TIH AND TAG CEMENT @ 6852' FOR A 438' PLUG
	14:30 16:30	2.00	WBREMD	39		P		POOH STANDING 5800' OF TUBING IN DERRICK AND LAYING DOWN REMAINING TUBING
	16:30 18:30	2.00	WBREMD	18		P		NIPPLE DOWN BOP, CUT A WINDOW IN 13 3/8" AND IN 9 5/8" CASING CUT AND DROP 7 5/8" CASING. FISH 7 5/8" CASING STUB AND SLIPS. NIPPLE UP BOP AND SECURE WELL FOR NIGHT
2/19/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING CASING WORKING WITH HEAVY LOADS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 11:30	4.00	WBREMD	18		P		RIG UP E/L TRUCK, FREE POINT AND CUT CASING @ 4189'. RIG DOWN E/L TRUCK
	11:30 14:00	2.50	WBREMD	18		N		CASIN IS ULTRA FLUSH. SECURE WELL AND WAIT ON SLIP TYPE ELEVATORS
	14:00 14:00	0.00	WBREMD	18		P		SHUT DOWN FOR DAY
2/20/2014	6:00 7:30	1.50	PULLCSG	28		P		CREWTRAVEL, SAFETY MEETING (LAYING DOWN CASING, USING LARGE SLIP TYPE ELEVATORS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 16:00	8.50	PULLCSG	24		P		RIG UP TO PULL CASING, LAY DOWN 93 JOINTS 7 5/8" CASING, RIG DOWN CASING EQUIPMENT
	16:00 17:00	1.00	WBREMD	16		P		NIPPLE UP BOP, SECURE WELL, RIG UP TO RUN TUBING. SHUT DOWN FOR DAY
2/21/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (BODY POSITIONING, HOUSE KEEPING, SLIPS TRIPS AND FALLS) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	39		P		TRIP INTO HOLE OPEN ENDED TO 5734'
	8:30 16:00	7.50	WBREMD	05		P		PUMP PLUG 3A ACROSS 95/8" SHOE WITH 30 SACKS 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. CIRCULATE WELLBORE CLEAN WITH CORROSION INHIBATED TPW. TAG CEMENT PLUG @ 5610' AND SPOT 90 SACK BALANCED CEMENT PLUG @ 5610 TO COVER TOP OF GREEN RIVER @ 5420". POOH WITH 1000' TUBING. WOC AND TAG @ 5157'
	16:00 17:30	1.50	WBREMD	39		P		POOH TO 4277' AND PUMP 80 SACK 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. SECURE WELL. SHUT DOWN FOR DAY
2/22/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (RIGGING UP E/L TRUCK, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TRIP INTO WELL AND TAG CEMENT ON PLUG 3B @ 3952' FOR A PLUG OF 325' WITH 246' ABOVE THE 7 5/8" CASING STUB'
	8:00 9:00	1.00	WBREMD	39		P		POOH WITH TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:00 10:30	1.50	WBREMD	21		P		RIG UP E/L TRUCK AND SHOOT 4 PERFHOLE @ 3400'. POOH AND ESTABLISH A 2 BBL A MINUTE RATE @ 200 PSI. TIH AND PERF CASING @ 350'. RIG DOWN E/L TRUCK
	10:30 11:00	0.50	WBREMD	16		P		NIPPLE DOWN BOP
	11:00 12:00	1.00	WBREMD	27		P		TIH AND SET 9 5/8" CICR @ 3340'
	12:00 13:00	1.00	WBREMD	05		P		PUMP 121 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT THUOUGH CICR INTO PERFS. STING OUT OF CICR AND PUM P65 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	13:00 16:00	3.00	WBREMD	41		P		POOH WITH 1000' TUBING CIRCULATE WELLBORE CLEAN AND WAIT ON CEMENT.
	16:00 17:30	1.50	WBREMD	24		P		TRIP INTO WELL AND TAG CEMENT @ 3190 FOR A CEMENT PLUG OF 150'. POOH LAYING DOWN TUBING TO 1000' SECURE WELL. SHUT DOWN FOR DAY
2/25/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING OFF WELLHEAD AND RIGGING DOWN RIG. DISCUSS HELP) FILL OUT AND REVIEW JSA. . CIRCULATE WELL BORE CLEAN FROM 1000'
	7:30 8:00	0.50	WBREMD	24		P		LAY DOWN REMAINING TUBING
	8:00 9:30	1.50	WBREMD	18		P		CUT WELLHEAD OFF AND WELD A TAPPED PLATE ON 9 5/8" CASING.
	9:30 10:30	1.00	WBREMD	05		P		PUMP 250 SACKS 16.4 PPG 1.05 YIELD CLASS G CEMENT PLUG DOWN 9 5/8" CASING AND UP 13 3/8" SURFACE PIPE TO SURFACE.
	10:30 14:30	4.00	RDMO	02		P		RIG DOWN RIG WHILE WAITING FOR CEMENT TO SET. WELD ON MARKER PLATE. MOVE OUT

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GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

September 4, 2014

CERTIFIED MAIL NO.: 7011 2970 0001 8828 1627

43 013 30051
Brotherson 1-14B4
14 2S 4W

Ms. Maria Gomez
EP Energy E&P Company, LP.
1001 Louisiana
Houston, TX 77002

Subject: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Dear Ms. Gomez:

As of April 2014, EP Energy E&P Company, LP (EP) has twenty-seven (27) Fee Lease Wells (see attachment A) that are currently in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status. Two (2) wells in 2013 and four (4) wells in 2014 were added to EP's SI/TA list.

The Division has worked with EP for many years to reduce the immense number of wells that were in non-compliance status. The Division feels that EP's SI/TA list is now at a manageable number; therefore all wells need to be addressed.

EP has a number of wells that were proposed for plugging (attachment A) but have not been plugged. Additionally, four (4) wells were inspected and reported as plugged by Division inspectors, but EP has failed to file subsequent plugging sundries and consequently are still listed as SI/TA (attachment A).

It has also come to the Division's attention that there are unresolved complaints against EP from landowners concerning spills and site access. Specifically with reference to the Christensen 3-4B4, pictures showing the state of the well were sent to the Division; it appears that this well is nowhere near being capable of production. This is cause for concern which needs to be addressed.

EP shall immediately submit plans and timeframes for each well stating which wells will be plugged, placed back on production, or requesting SI/TA extension with proof of wellbore integrity and good cause for such request. All wells need an individual sundry filed and are required to meet the SI/TA rules as listed below.



Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

1. Reasons for SI/TA of the well (R649-3-36-1.1)
2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Please note that the Divisions preferred method for showing well integrity is by MIT

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. **Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).**

1. Wellbore diagram, and
2. Copy of recent casing pressure test, and
3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
4. Fluid level in the wellbore, and
5. An explanation of how the submitted information proves integrity.

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,



Dustin K. Doucet
Petroleum Engineer

DKD/JP/js

cc: Compliance File
Well File

N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

ATTACHMENT A

	Well Name	API	LEASE	Years Inactive	Proposed PA	Plugged
1	CEDAR RIM 2	43-013-30019	FEE	12 years 7 months	Needs subsequent	7/17/2013
2	CHRISTENSEN 3-4B4	43-013-31142	FEE	10 years 4 month	5/10/2010	
3	DRY GULCH 1-36A1	43-047-30569	FEE	22 years 1 moth		
4	LARSEN 1-25A1	43-047-30552	FEE	10 years 11 months		
5	FARSWORTH 2-12B5	43-013-31115	FEE	10 years 5 months	5/18/2007	
6	BROTHERSON 1-10B4	43-013-30110	FEE	9 years 11 months		
7	BROTHERSON 1-24B4	43-013-30229	FEE	8 years 11 months		
8	BROTHERSON 1-33A4	43-013-30272	FEE	7 years 1 month		
9	MILES 2-35A4	43-013-31087	FEE	6 years 11 months	12/31/2012	
10	SMB 1-10A2	43-013-30012	FEE	4 years 8 months		
11	RUST 1-4B3	43-013-30063	FEE	4 years 7 months	Needs subsequent	9/19/2013
12	SMITH ALBERT 2-8C5	43-013-30543	FEE	4 years 9 months	Needs subsequent	12/4/2013
13	VODA JOSEPHINE 2-19C5	43-013-30553	FEE	4 years 9 months		
14	BROWN 2-28B5	43-013-30718	FEE	4 years 3 months		
15	HANSUKUTT 2-23B5	43-013-30917	FEE	4 years 8 months	Needs subsequent	10/24/2013
16	BROTHERSON 3-23B4	43-013-31289	FEE	4 years 9 months		
17	BROTHERSON 1-14B4	43-013-30051	FEE	3 years 11 months		
18	BROTHERSON 2-3B4	43-013-31008	FEE	3 years 6 months		
19	POWELL 2-33A3	43-013-30704	FEE	3 years 1 month	6/1/2014	
20	BROTHERSON 2-3B4	43-013-31008	FEE	3 years 3 months		
21	DASTRUP 2-30A3	43-013-31320	FEE	3 years 8 months		
22	R HOUSTON 1-22Z1	43-013-30884	FEE	2 years 3 months		
23	HORROCKS 5-20A1	43-013-34280	FEE	4 years 7 months		
24	BELCHER 2-33B4	43-013-30907	FEE	1 year 2 months		
25	CEDAR RIM 2A	43-013-31172	FEE	2 years 2 months		
26	EULA-UTE 1-16A1	43-013-30782	FEE	1 year 11 months		
27	HANSEN 1-16B3	43-013-30617	FEE	1 year 8 months		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: BROTHERSON 1-14B4	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		9. API NUMBER: 43013300510000	
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2100 FNL 0750 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENE Section: 14 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/24/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>Class G cmt used. POOH w tbq. Set CICR @ 9136'. Pumped 30sx BP. TOC @ 8931' (205' plug). Pressure tested csg to 500 psi-good test. Pumped 50sx BP @ 7290'. Bled off 9 5/8" & 13 3/8" & in 9 5/8" cut csg & dropped 7 5/8" csg. Fished 7 5/8". Cut csg @ 4189'. Pulled csg. Pumped 30sx plug @ 5734' across 9 5/8" shoe. TOC @ 5610. Spot 90sx BP @ 5610' to cover top of Green River @ 5420'. TOC @ 5157'. Pumped 80sx @ 4277'. TOC @ 3952' for a 325' plug with 246' above the 7 5/8" casing stub. Shot 4 perfs @ 3400'. Established injection rate. Perf'd csg @ 350'. CICR @ 3340 & pumped 121sx into perfs. Pumped 65sx BP. TOC @ 3190' (150' plug). Cut wellhead off. Welded plate on 9 5/8" csg. Pumped 250sx down 9 5/8" & up 13 3/8" surface pipe to surface. Welded on marker plate.</p>			
NAME (PLEASE PRINT) Maria S. Gomez		PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 10/8/2014	

CENTRAL DIVISION

ALTAMONT FIELD
BROTHERSON 1-14B4
BROTHERSON 1-14B4
P&A LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	BROTHERSON 1-14B4		
Project	ALTAMONT FIELD	Site	BROTHERSON 1-14B4
Rig Name/No.	MAGNA/026	Event	P&A LAND
Start date	2/11/2014	End date	2/25/2013
Spud Date/Time	10/10/1970	UWI	014-002-S 004-W 30
Active datum	KB @6,141.0ft (above Mean Sea Level)		
Afe No./Description	161691/49675 / BROTHERSON UNIT 1-14 B4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/12/2014	14:00 17:00	3.00	MIRU	01		P		MOVE RIG AND EQUIPMENT IN AND RIG UP RIG. PREPARE LOCATION TO P&A. CASSING SHUT IN PRESSURE @ 500 PSI. BLEED PRESSURE DOWN . SHUT WELL IN, SHUT DOWN FOR NIGHT
2/13/2014	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN RODS AND TUBING, BODY AND HAND POSITION) FILL OUT AND REVIEW JSA. HOT HOIL TRUCK IS PUMPING DOWN CASING
	7:30 8:00	0.50	PRDHEQ	06		P		FLUSH TUBING WITH 60 BBLS TPW
	8:00 15:00	7.00	PRDHEQ	24		P		LAY DOWN POLISH ROD AND SUBS, 97-1" EL RODS, 121-7/8" EL RODS, 122-3/4" AND 28-1" RODS AND ROD PUMP FLUSHINGF AS NEEDED TO KEEP CLEAN
	15:00 16:30	1.50	PRDHEQ	18		P		CHANGE OVER TO PULL TUBING,NIPPLW DOWN WELLHEAD AND NIPPLE UP BOP. RIG UP RIG TO PULL TUBING.
	16:30 17:30	1.00	PRDHEQ	24		P		RELEASE TAC AND POOH WITH 30 JOINTS TUBING. SECURE WELL SHUT DOWN FOR DAY
2/14/2014	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL, SAFETY MEETING (LAY DOWN TUBING, PINCH POINTS, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	06		P		CIRCULATE WELL CLEAN WITH 150 BBLS TPW.
	8:30 13:00	4.50	WOR	24		P		CONTINUE LAYING DOWN 2 7/8" PRODUCTION TUBING AND BOTTOM HOLE ASSEMBLY.
	13:00 13:30	0.50	WOR	18		P		CHANGE OVER TO RUN 2 3/8" TUBING
	13:30 17:00	3.50	WOR	24		P		TRIP INTO TO WELL WITH 4 3/4" BIT AND 284 JOINTS TUBING TO 9202'
	17:00 17:30	0.50	WOR	39		P		POOH WITH 24 JOINTS TUBING AND SHUT WELL IN. SHUT DOWN FOR DAY
2/15/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (TRIPPING TUBING SAFELY, BODY POSITIONING. HOUSE KEEPING) FILL OUT AND REVIEW JSA
	7:30 10:00	2.50	WOR	39		P		FINISH TRIPPING OUT OF HOLE WITH BIT
	10:00 13:30	3.50	WOR	27		P		PICK UP 5 1/2" CICR AND TIH SETTING @ 9136'
	13:30 15:00	1.50	WOR	06		P		FILL HOLE WITH 100 BBLS TPW AND CIRCULATE CLEAN
	15:00 15:30	0.50	WBREMD	05		P		PUMP A 30 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	15:30 16:00	0.50	WOR	39		P		POOH WITH 1000' TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 18:30	2.50	WOR	06		P		REVERSE CIRCULATE TUBING CLEAN. CIRCULATE WELLBORE CLEAN. SECURE WELL. SHUT DOWN FOR WEEKEND
2/16/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/17/2014	6:00 6:00	24.00	WBREMD	18		P		DOWN FOR WEEKEND
2/18/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (HOUSEKEEPING, BODY POSITIONING, HAND PLACEMENT) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TIH AND TAG CEMENT TOP @ 8931' FOR A 205' PLUG. PRESSURE TEST CASING TO 500 PSI. TEST GOOD. BLEED OFF
	8:00 9:00	1.00	WBREMD	24		P		POOH TO 7290' LAYING DOWN TUBING
	9:00 9:30	0.50	WBREMD	05		P		PUMP A 50 SACK 16.4 PPG, 1.05 YIELD, CLASS G CEMENT BALANCED PLUG
	9:30 10:00	0.50	WBREMD	06		P		POOH WITH 1000' TUBING AND REVERSE CIRCULATE TUBING CLEAN.
	10:00 14:00	4.00	WBREMD	41		P		WAIT FOR CEMENT TO CURE. CLEAN OUT CELLAR WHILE WAITING ON CEMENT. BLEED OFF 9 5/8" AND 13 3/8" CASING
	14:00 14:30	0.50	WBREMD	39		P		TIH AND TAG CEMENT @ 6852' FOR A 438' PLUG
	14:30 16:30	2.00	WBREMD	39		P		POOH STANDING 5800' OF TUBING IN DERRICK AND LAYING DOWN REMAINING TUBING
	16:30 18:30	2.00	WBREMD	18		P		NIPPLE DOWN BOP, CUT A WINDOW IN 13 3/8" AND IN 9 5/8" CASING CUT AND DROP 7 5/8" CASING. FISH 7 5/8" CASING STUB AND SLIPS. NIPPLE UP BOP AND SECURE WELL FOR NIGHT
2/19/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING CASING WORKING WITH HEAVY LOADS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 11:30	4.00	WBREMD	18		P		RIG UP E/L TRUCK, FREE POINT AND CUT CASING @ 4189'. RIG DOWN E/L TRUCK
	11:30 14:00	2.50	WBREMD	18		N		CASIN IS ULTRA FLUSH. SECURE WELL AND WAIT ON SLIP TYPE ELEVATORS
	14:00 14:00	0.00	WBREMD	18		P		SHUT DOWN FOR DAY
2/20/2014	6:00 7:30	1.50	PULLCSG	28		P		CREWTRAVEL, SAFETY MEETING (LAYING DOWN CASING, USING LARGE SLIP TYPE ELEVATORS. BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 16:00	8.50	PULLCSG	24		P		RIG UP TO PULL CASING, LAY DOWN 93 JOINTS 7 5/8" CASING, RIG DOWN CASING EQUIPMENT
	16:00 17:00	1.00	WBREMD	16		P		NIPPLE UP BOP, SECURE WELL, RIG UP TO RUN TUBING. SHUT DOWN FOR DAY
2/21/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (BODY POSITIONING, HOUSE KEEPING, SLIPS TRIPS AND FALLS) FILL OUT AND REVIEW JSA
	7:30 8:30	1.00	WBREMD	39		P		TRIP INTO HOLE OPEN ENDED TO 5734'
	8:30 16:00	7.50	WBREMD	05		P		PUMP PLUG 3A ACROSS 95/8" SHOE WITH 30 SACKS 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. CIRCULATE WELLBORE CLEAN WITH CORROSION INHIBATED TPW. TAG CEMENT PLUG @ 5610' AND SPOT 90 SACK BALANCED CEMENT PLUG @ 5610 TO COVER TOP OF GREEN RIVER @ 5420". POOH WITH 1000' TUBING. WOC AND TAG @ 5157'
	16:00 17:30	1.50	WBREMD	39		P		POOH TO 4277' AND PUMP 80 SACK 16.4 PPG 1.05 YIELD, CLASS G CEMENT. POOH WITH 1000' TUBING. SECURE WELL. SHUT DOWN FOR DAY
2/22/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (RIGGING UP E/L TRUCK, BODY POSITIONING) FILL OUT AND REVIEW JSA
	7:30 8:00	0.50	WBREMD	39		P		TRIP INTO WELL AND TAG CEMENT ON PLUG 3B @ 3952' FOR A PLUG OF 325' WITH 246' ABOVE THE 7 5/8" CASING STUB'
	8:00 9:00	1.00	WBREMD	39		P		POOH WITH TUBING

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	9:00 10:30	1.50	WBREMD	21		P		RIG UP E/L TRUCK AND SHOOT 4 PERFHOLE @ 3400'. POOH AND ESTABLISH A 2 BBL A MINUTE RATE @ 200 PSI. TIH AND PERF CASING @ 350'. RIG DOWN E/L TRUCK
	10:30 11:00	0.50	WBREMD	16		P		NIPPLE DOWN BOP
	11:00 12:00	1.00	WBREMD	27		P		TIH AND SET 9 5/8" CICR @ 3340'
	12:00 13:00	1.00	WBREMD	05		P		PUMP 121 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT THUOUGH CICR INTO PERFS. STING OUT OF CICR AND PUM P65 SACK 16.4 PPG, 1.05 YIELD CLASS G CEMENT BALANCED PLUG
	13:00 16:00	3.00	WBREMD	41		P		POOH WITH 1000' TUBING CIRCULATE WELLBORE CLEAN AND WAIT ON CEMENT.
	16:00 17:30	1.50	WBREMD	24		P		TRIP INTO WELL AND TAG CEMENT @ 3190 FOR A CEMENT PLUG OF 150'. POOH LAYING DOWN TUBING TO 1000' SECURE WELL. SHUT DOWN FOR DAY
2/25/2014	6:00 7:30	1.50	WBREMD	28		P		CREW TRAVEL, SAFETY MEETING (CUTTING OFF WELLHEAD AND RIGGING DOWN RIG. DISCUSS HELP) FILL OUT AND REVIEW JSA. . CIRCULATE WELL BORE CLEAN FROM 1000'
	7:30 8:00	0.50	WBREMD	24		P		LAY DOWN REMAINING TUBING
	8:00 9:30	1.50	WBREMD	18		P		CUT WELLHEAD OFF AND WELD A TAPPED PLATE ON 9 5/8" CASING.
	9:30 10:30	1.00	WBREMD	05		P		PUMP 250 SACKS 16.4 PPG 1.05 YIELD CLASS G CEMENT PLUG DOWN 9 5/8" CASING AND UP 13 3/8" SURFACE PIPE TO SURFACE.
	10:30 14:30	4.00	RDMO	02		P		RIG DOWN RIG WHILE WAITING FOR CEMENT TO SET. WELD ON MARKER PLATE. MOVE OUT

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