

**BRIEF NOTATIONS**

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

Checked by Chief ..... *PHC*  
Approval Letter ..... *11-22-70*  
Disapproval Letter .....

**COMPLETION DATA:**

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

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

**LOGS FILED**

Miller's Log.....  
Logs (No.) .....  
..... I..... Dual I Lat..... GR-N..... Micro.....  
..... GR..... Lat..... MI-L..... Sonic.....  
CCLog ..... CCLog..... Others.....

DIVISION OF OIL, GAS, AND MINING

*Re-Entry -  
(Formerly  
Shed Oil)*

\*FILE NOTATIONS\*

*CONFIDENTIAL*

Date: May 4-  
Operator: Koch Exploration Co.  
Well No: Ute 1-1609  
Location: Sec. 16 T. 4S R. 9W County: Wasatch

File Prepared  Entered on N.I.D.   
Card Indexed  Completion Sheet

Checked By:

Administrative Assistant: *[Signature]*

Remarks:

Petroleum Engineer/Mined Land Coordinator: *OK [Signature]*

Remarks:

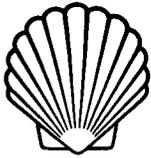
Director: \_\_\_\_\_

Remarks:

Include Within Approval Letter:

Bond Required  Survey Plat Required   
Order No. \_\_\_\_\_  Blowout Prevention Equipment   
Rule C-3(c) Topographical exception/company owns or controls acreage  
within a 660' radius of proposed site   
O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit   
Other:

*approved*  
Letter Written



# SHELL OIL COMPANY

1700 BROADWAY  
DENVER, COLORADO 80202

November 23, 1970

Subject: Shell-Ute No. 1-16D9  
2463' FNL and 1518' FEL  
Section 16-T4S-R9W  
Slab Canyon Area  
Wasatch County, Utah

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

Attention Mr. Cleon Feight

Gentlemen:

The attached application for a drilling permit for Shell-Ute No. 1-16D9 specifies a location which does not meet the requirements of State Rule C-3(b) due to topographic reasons. As may be noted from the attached Topographic Map, a regular location in the NW/SE of Section 16-T4S-R9W falls in close proximity to the bed of the Strawberry River. Further, Shell owns all oil and gas leases within 660 feet of the requested location as shown on the attached Lease Ownership Plat.

In view of the foregoing, Shell Oil Company respectfully requests approval of an exception location under the provisions of Rule C-3(c).

Very truly yours,

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

Attachments

10

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side) \*

10

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No. Patented ✓

6. If Indian, Allottee or Tribe Name Ute Indian Tribe

7. Unit Agreement Name \_\_\_\_\_

8. Farm or Lease Name Ute

9. Well No. 1-16D9

10. Field and Pool, or Wildcat Slab Canyon Area (WC)

11. Sec., T., R., M., or Blk. and Survey or Area 16-T 4S-R 9W

12. County or Parrish Wasatch 13. State Utah

14. Distance in miles and direction from nearest town or post office\* 28 miles west of Duchesne, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 1518'

16. No. of acres in lease 960

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. No other wells on lease

19. Proposed depth 13,000' WASATCH

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 6598 GL (Ungraded)

22. Approx. date work will start\* 1-1-71

23. PROPOSED CASING AND CEMENTING PROGRAM

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

AS PER ATTACHED DRILLING PROGNOSIS AND CERTIFIED SURVEY PLAT.

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

24. Signed J. C. Shell Title Division Petroleum Engineer Date November 23, 1970

(This space for Federal or State office use)

Permit No. 43.057-30003 Approval Date \_\_\_\_\_

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

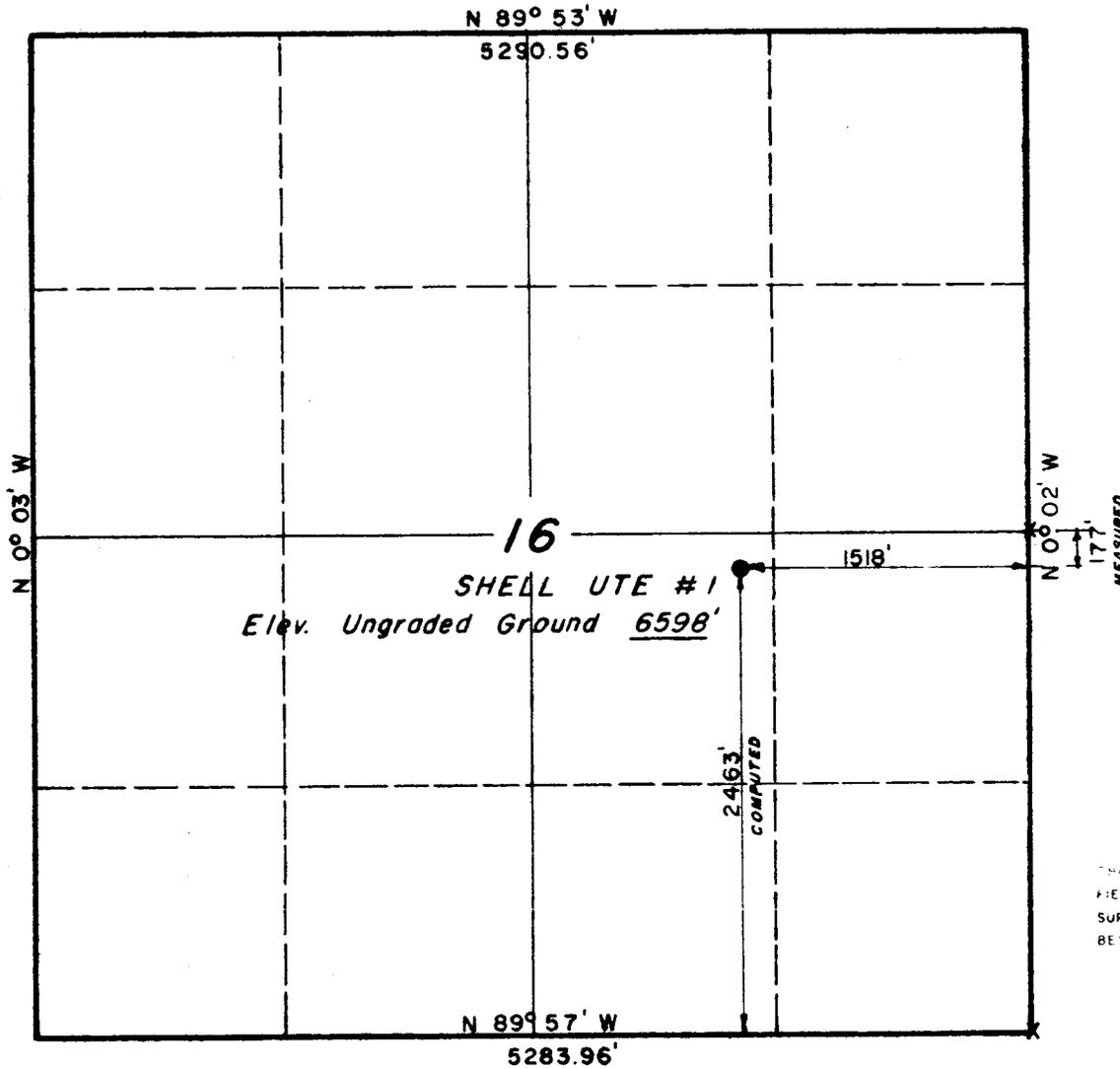
13

T4S, R9W, U.S.B.&M.

PROJECT

SHELL OIL COMPANY

Well location, located as shown  
in the SE 1/4 Section 16, T4S,  
R9W, U.S.B.&M. Wasatch County,  
Utah.



CERTIFICATE

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

*Gene Stewart*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

X = Corners Located

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

SCALE 1" = 1000'	DATE 18 Nov. 1970
PARTY G. S. L. D. T. W. R.	REFERENCES GLO Plat
WEATHER Fair	FILE SHELL OIL CO.

DRILLING WELL PROGNOSIS

WELL NAME UTE NO. 1  
 TYPE WELL EXPLORATION WILDCAT  
 FIELD AREA SLAB CANYON

REVISED 10/28/70

APPROX. LOCATION (SUBJECT TO SURVEY) 2463' FNL and 1518' FEL Sec 16-T 4S-R 9W USM

EST. G. L. ELEVATION 6620' PROJECTED TD 13,000' OBJECTIVE WASATCH

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 1/2"	13 3/8"		1 1/2°	Sfc csg to 100'	SAMPLES: 30' from surface to 2,000' 10' from 2,000' to TD  CORES: 500' to be taken as warranted
12 1/4"	9 5/8"			Green River Zone 1 Surface	DST'S: 2 in zone 2 3 in zone 3 5 in Wasatch
	3500			Green River Zone 2 1,300'	DEVIATION CONTROL Dog leg severity less than 1 1/2° per 100' interval State limits
8 3/4"			1°/1000'	Green River Zone 3 2,600'	CEMENT Circulate sfc csg cement
				Wasatch 5,600'	MUD
				Cretaceous 12,000'	<u>Water</u> - As deep as adequate hole cleaning allows.
				TD 13,000'	<u>Gel/chemical</u> - from max water to transition zone  <u>Weighted-Gel/chemical</u> As needed to control pressures (9.4#/gal max. expected)

FDC/DIL/PML/SNP  
 GR/BHC/AC/Cal  
 FDT/TVT  
 2-Man Mud Logging Unit

ORIGINATOR *LAD*

DATE 10/28/70

ENGINEERING APPROVAL:

EXPLOITATION

MECH.

*R. C. Howell 11/5/70*  
*B. J. ... 10/29/70*

OPERATIONS APPROVAL:

*J. M. ...*  
 DIV. DRILLING S'PT.

November 27, 1970

Shell Oil Company  
1700 Broadway  
Denver, Colorado 80202

ATTENTION: R.A. Flohr, Div. Production Manager

Re: Well No. Shell-Ute 1-1609  
Sec. 16, T. 4 S, R. 9 W,  
Wasatch County, Utah

Dear Sir:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Incidentally, we would like to call to your attention the fact that we have had problems with mud pits constructed adjacent to rivers, in that they are potential pollutants and the evaporation rate is very slow. Therefore, it is recommended that should it become necessary for you to plug and abandon this well, as much of the fluids from the pits be pumped down the hole as possible.

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

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

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
Salt Lake City 14, Utah

*PH*  
25

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for  
January, 1971

Agent's address 1700 Broadway Company Shell Oil Company  
Denver, Colorado, 80202 Signed *[Signature]*  
Phone 303-222-8454 Agent's title Division Services Manager

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW 1/4 SE 1/4 2463' FSL 1518' FEL	4S	9W	1-16-D9	-	-	-	-	-	<u>Shell-Ute</u> Drilling Depth 4615'  <u>Indian Lease No.</u> 14-20-H62-591

Note: There were 0 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.)

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

FILE IN DUPLICATE

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for February, 19 71

Agent's address 1700 Broadway Company Shell Oil Company

Denver, Colorado, 80202 Signed *[Signature]*

Phone 303-222-8454 Agent's title Division Services Manager

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW 1/4 SE 1/4 2463' FSL 1518' FEL	4S	9W	1-16-D9	-	-	-	-	-	Shell-Ute Drilling Depth 6417' Indian Lease No. 14-20-H62-591

Note: There were 0 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



STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for April, 1971

Agent's address 1700 Broadway Company Shell Oil Company  
Denver, Colorado, 80202 Signed [Signature]  
Phone 303-222-8454 Agent's title Division Services Manager

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW 1/4 SE 1/4 2463' FSL 1518' FEL	4S	9W	1-16-D9	-	-	-	-	-	Shell-Ute Drilling Depth 8,134' Indian Lease No. 14-20-H62-591

Note: There were 0 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

Form OGCC 4

STATE OF UTAH  
 OIL & GAS CONSERVATION COMMISSION  
 Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for  
May, 1971

Agent's address 1700 Broadway Company Shell Oil Company  
Denver, Colorado, 80202 Signed [Signature]  
 Phone 303-222-8454 Agent's title Division Services Manager  
 State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW 1/4 SE 1/4 2463' FSL 1518' FEL	4S	9W	1-16-D9	-	-	-	-	-	Shell-Ute Drilling Depth 10,482' Indian Lease No. 14-20-H62-591

Note: There were 0 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

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for  
 June \_\_\_\_\_, 1971

Agent's address 1700 Broadway Company Shell Oil Company  
Denver, Colorado, 80202 Signed *[Signature]*  
 Phone 303-222-8454 Agent's title Division Services Manager  
 State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW¼SE¼ 2463' FSL 1518' FEL	4S	9W	1-16-D9	-	-	-	-	-	Shell-Ute Drilling Depth 11,980' <u>Indian Lease No.</u> 14-20-H62-591

Note: There were 0 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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Tr. 14-20-462-591

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

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 2463' FSLand 1518' FEL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 28 miles west of Duchesne, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 1518'

16. NO. OF ACRES IN LEASE  
 860

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.  
 No other wells on lse

19. PROPOSED DEPTH  
 13,000'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 6598 GL (Ungraded)

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

Further to verbal conversation w/Mr. Al Nicol of our office, pertinent data to plugging back this well is as follows:

Plug No. 1 Hung 3 1/2" DP opened DP at 11,658 w/50 sx  
Plug No. 2 Hung 3 1/2" DP opened DP at 10,447 w/100 sx  
 Top of second plug at 9924.  
 5" liner cemented at 8405. FBTD 8359.

2 cc's: Oil and Gas Conservation Commission - Salt Lake City

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 Original Signed by J. C. HOWELL TITLE Division Operations Engr. DATE July 14, 1971

(This space for Federal or State office use)

PERMIT NO. 43-651-3663 APPROVAL DATE

APPROVED BY Dem O Frazier TITLE Director DATE JUL 16 1971

CONDITIONS OF APPROVAL, IF ANY:

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Wasatch Field or Lease Slab Canyon Area

The following is a correct report of operations and production (including drilling and producing wells) for  
July, 1971.

Agent's address 1700 Broadway Company Shell Oil Company

Denver, Colorado, 80202 Signed *[Signature]*

Phone 303-222-8454 For: Division Services Manager

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & ¼ of ¼	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
Sec. 16 NW¼SE¼ 1463' FSL 518' FEL	4S	9W	1-16-D9	-	-	-	-	-	Shell-Ute Plug Back Depth 8,359' Indian Lease No. 14-20-H62-591

Note: There were 0 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



SHELL OIL COMPANY

BASE SHELL-UTE

WELL NO.

1-16D9

DIVISION ROCKY MOUNTAIN

ELEV

6617 KB

FROM: 12-28-70 - 10-6-71

COUNTY WASATCH

STATE

UTAH

UTAHSLAB CANYON AREA

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River-  
Wasatch Test

"FR" RURT.

Located 2463' FSL and 1518' FEL  
Section 16-T4S-R9W, Wasatch County, Utah.

Elev: 6598 GL (Ungraded)

13,000' Green River - Wasatch Test

Shell Working Interest - 100%

Drilling Contractor - Loffland

This is a 13,000' exploratory test to evaluate Green River  
and Wasatch sections in the extreme southwestern sector of  
Northern Uinta Basin play area. DEC 2 8 1970

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River-  
Wasatch Test

RURT. DEC 2 9 1970

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River-  
Wasatch Test

Prep to spud 17½" conductor hole. DEC 3 0 1970

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River-  
Wasatch Test

No report. DEC 3 1 1970

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River-  
Wasatch Test624/143/6/624. Drilling. Dev: ¼° @ 70', 3/4° @ 183',  
1° @ 244', & 314, 1¼° @ 500 and 595.

Spudded 17½" conductor hole at 9 a.m. 12/30/70.

KB-GL - 18.50'. Drld to 125'. Ran and cmt 4 jts (133')

13 3/8" csg w/shoe at 124' w/150 sx reg, 3% CaCl<sub>2</sub> and ½#/sx

Flocele. Completed displacement 7:30 a.m. 12/31/70. No

cmt to sfc. WOC 6 hrs. Ran 1" outside 13 3/8" to 110'.

Stage cemented w/150 sx reg, 3% CaCl<sub>2</sub> and ½#/sx Flocele.WOC 5½ hrs. Cmt 1" at 80' w/100 sx 1:1 poz, 3% CaCl<sub>2</sub> and

½#/sx Flocele. WOC 2 hrs. Cmt 1" at 70' w/150 sx 1:1 poz

3% CaCl<sub>2</sub>, and ½#/sx Flocele. Circ approx 50 sx.

Completed 11:30 p.m. 12/31/70. Drld out w/12¼" bit at

6 a.m. 1/2/71.

JAN 4 1971

Mud: Wtr.

(Water gain to system - approx 3/4 B/M).

Shell-Ute 1-16D9

(WC) Loffland

13,000' Green River  
Wasatch Test

E30/143/7/206. Drilling. Dev: 1¼° @ 690 &amp; 785.

Mud: Water. JAN 5 1971

13 3/8" Csg at 124'

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" Csg at 124'

1078/143/8/248. Drilling. Dev: 1½° @ 879, 974, & 1064'.  
Mud: Wtr (weighted up to 9.1 w/salt). JAN 6 1971

Shell Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
13 3/8" Csg at 124'

1225/143/9/147. Drilling.  
Dev: 1 3/4° @ 1195  
Mud: 9.4 x 34 JAN 7 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" Csg at 124'

1446/143/10/221. Drilling. Dev: 2½° @ 1289, & 1351,  
2¼° @ 1413.  
Mud: Water. JAN 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" Csg at 124'

2214/143/13/768. Drilling. Dev: 2° @ 2011, 2105, & 2199.  
Mud: Water. JAN 11 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" Csg at 124'

2461/143/14/247. Tripping for bit. Dev: 1 3/4° @ 2324,  
& 2° @ 2418. JAN 12 1971  
Mud: Water.

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
13 3/8" Csg at 124'

2700/143/15/239. Drilling. Dev: 2° @ 2578.  
Mud: Wtr. JAN 13 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" Csg at 124'

2948/143/16/248. Drilling. Dev: 2½° @ 2704, 3° @ 2799, 2862,  
and 2924. JAN 14 1971  
Mud: Wtr.

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
13 3/8" Csg at 124'

3185/143/17/237. Drilling. Dev: 3° @ 3019, 3¼° @ 3113,  
& 3½° @ 3176. JAN 15 1971  
Mud: Wtr.

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
13 3/8" csg at 124'

No report. JAN 18 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

3502/143/21/317. (4 days drlg rept) Flanging up on 9 5/8" csg. Dev: 3 1/2° at 3176, 3 3/4° at 3240 and 3271, 4° at 3303, 4 1/4° at 3334 and 3363, 4° at 3395 and 3426, 3 3/4° at 3457 and 4° at 3498.  
Drld to 3502'. Ran logs as follows: DIL/SP, Int BHCS/GR/Cal, FDC/GR/Cal, SNP/GR/Cal & PL/ML. Ran and cmt 83 jts (3506.44') 36# K-55 9 5/8" csg at 3500' w/1000 sx 60-40 poz, 2% gel, and 3% salt, blended w/1/4#/sx Nylon Fibers and 500 sx Class "G" Neat w/3% salt, 1/2#/sx Nylon Fibers. Failed to attain full displacement. Calc 985' cmt left in 9 5/8" csg. CIP 12:45 p.m. 1/18/71.  
Mud: water JAN 19 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

3502/143/22/0. Drilling cement.  
Flanged up 9 5/8" csg. Press tested DP. Tagged plug at 2465.  
Mud: water JAN 20 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

3648/143/23/146. Tripping.  
Mud: wtr. JAN 21 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

3904/143/24/256. Drilling. Dev: 4° at 3547, 4 1/2° at 3611, 3642, 3693, 4 3/4° at 3725, 4 1/2° at 3757, 5 1/2° at 3821 and 5° at 3851.  
Mud: wtr JAN 22 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test

4154/143/27/250 Running DST No. 1. Dev: 5° at 3914, 5 1/2° at 3976, 4017, 6° at 4048, 5 3/4° at 4097 and 4128.  
Pulled Bit #11 at 4154. Picked up Johnston hookwall pkr and selective zone anchor and MFE tool. Set pkr at 4020'.  
Mud: Wtr JAN 25 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

4154/143/28/0 No report  
Dev: 5° @ 3914, 5½° @ 3976 & 4017, 6° @ 4048, 5 3/4° @ 4097  
& 4128, 5° @ 4154.

Pulled Bit #11 at 4154. Picked up Johnston hookwall pkr  
and selective zone anchor and MFE tool. Set pkr at 4020'  
for DST #1.

DST No. 1 4020-4154.

Johnston Hookwall, 15/16" Bottom Hole Choke, Drilling Water:  
Rw = 7.5 @ 80°F.

Op 10 min. Op w/wk blow (8"H<sub>2</sub>O) Inc to strong blow in 1 min.  
Continued increasing.

SI 90 min.

Op 120 min. Op w/strong blow. GTS 3 min. Max rate = 4.4  
MCF/D.

SI 10 hrs (overnight)

Recovery: 220' oil (37.4° API @ 60°F.)

120' Water

Rw = 4.75 @ 80°F.

Sample Chamber: 80 psig  
500 cc oil (37.4° API @ 60°F)  
550 cc water (Rw = 5.0 @ 80°F)

Pressures: (Inside Recorder @ 3999)

IHP 1755, IFP 87-87, ISIP 1614, FFP 87-181, FSIP 1558,  
FHP 1755, Max temp - 104°F.

Mud: Water JAN 2 6 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

4363/143/29/209. (2 days drlg report) Drilling.

Dev: 5° @ 4176 & 4335, and 4 3/4° @ 4208.

Mud: Wtr. JAN 2 7 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

4525/143/30/162. Drilling. Dev: 5° @ 4398 and 5½° @ 4461.

Mud: Water. JAN 2 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

4603/143/31/78. Tripping. In attempting DST No. 2, tool  
would not go below 4,000'.

Tentative Sample Top TGR3 - 4100.

Mud: Water. JAN 2 9 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

4615/143/34/12. Washing and reaming at 4341.

Drld to 4615 after attempting DST. Stuck pipe while  
making connection. Worked up hole 112'. Ran freepoint  
indicator and drill string; bit at 4503. Backed off DC  
at 4174. Ran jars and bumper sub. Engaged fish and rec'd  
same. Ran bit to CO and condition.

Mud: 8.7 x 53 x 8 FEB 1 1971

Shell-Ute 1-16D9 4625/143/35/10. CO at 4371; hole sloughing.  
 (WC) Loffland Mud: 8.9 x 76 x 8.4. FEB 2 1971  
 13,000' Green River  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 4615/143/36/0. CO at 4590.  
 (WC) Loffland Mud: 9 x 70 x 7.5 FEB 3 1971  
 13,000' Green River-  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 4693/143/37/78. Drilling.  
 (WC) Loffland Mud: 9 x 67 x 5.6 FEB 4 1971  
 13,000' Green River-  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 4770/143/38/77. Drilling. Dev: 5½° @ 4694.  
 (WC) Loffland Mud: 9 x 48 x 7. FEB 5 1971  
 13,000' Green River  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 4892/143/41/122. Drilling. Dev: 5¼° @ 4757 & 4819.  
 (WC) Loffland On trip w/Bit #17 at 4865, encountered bridge at 4340.  
 13,000' Green River- Washed and reamed to TD. FEB 8 1971  
 Wasatch Test Mud: 9.3 x 60 x 5.0.  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 4978/143/42/86. Drilling. Dev: 6° @ 4926.  
 (WC) Loffland Mud: 9.3 x 53 x 4.2 FEB 9 1971  
 13,000' Green River-  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 5081/143/43/103. Drilling. Dev: 5½° @ 4598, 5° @ 5021,  
 (WC) Loffland and 5° @ 5052'. FEB 10 1971  
 13,000' Green River- Mud: 9.2 x 56 x 4.  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9 5188/143/44/107. Drilling. Dev: 5° @ 5115 & 5¼° @ 5147.  
 (WC) Loffland Mud: 9.2 x 51 x 4.4. FEB 11 1971  
 13,000' Green River  
 Wasatch Test  
 9 5/8" Csg at 3500'

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

5261/143/45/73. Drilling. Dev: 5° @ 5204.  
Mud: 9.2 x 54 x 4.4. FEB 12 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

5677/143/48/416. Drilling. Dev: 5½° at 5520, 5¼° at 5582,  
and 4 3/4° at 5644.  
Mud gradient - .485  
Mud: 9.3 x 51 x 4.3 (Oil Trc) (P.V. 14) (Y.P. 5) (ph 10)  
(fc 2/32) (Sd Trc) FEB 16 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

5881/143/49/204. Drilling. Dev: 5° @ 5739 and 5831.  
Mud gradient - .479  
Mud: 9.2 x 57 x 3.6 (Oil trc). FEB 17 1971

Shell-Ute 1-16D9  
(WC) Loffland  
12,100' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6060/143/50 179. Drilling. Dev: 5° at 5924 and 6017.  
Mud gradient .484. FEB 18 1971  
Mud: 9.3 x 53 x 4 (Oil trc).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6184/143/51/124. Drilling. Dev: 4½° @ 6112.  
Mud gradient: .479 FEB 19 1971  
Mud: 9.2 x 57 x 4.8 (Oil Trc).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

6334/143/54/150. Repairing rig. Dev: 3 3/4° @ 6334.  
While tripping out w/bit, drawworks and jack shaft broke  
at 3 a.m. 2/20/71. FEB 22 1971  
Mud gradient - .479  
Mud: 9.2 x 54 x 4.8

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

6334/143/55/0. Repairing rig. Dev: 3 3/4° @ 6334.  
24 hr down time. FEB 23 1971  
Mud gradient - .479  
Mud: 9.2 x 54 x 4.8 (Oil trc).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6334/143/56/0. Repairing rig; should complete by this p.m.  
FEB 24 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

6345/143/57/11 Drilling.  
Mud: 9.2 x 52 x 4.8 FEB 25 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6392/143/58/47. Drilling. Hole sloughed on connection  
at 6349. Worked up hole 100'. CO to TD to drill.  
Mud: 9.4 x 50 x 4.4. FEB 26 1971

Shell-UTE 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3500'

6417/143/61/25. CO and cond hole. Drld to 6417 and  
began trip out - tight and sloughing hole. Washed and  
worked 19 jts. Sloughing cut off circ; unable to free  
string. Ran freepoint, and backed off at 5138 leaving (15)  
7" DC's and 5 jts DP in hole. MAR 1 1971  
Mud: 9.3 x 75 x 4.4

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6417/143/62/0. CO and cond at 4450.  
Hole bridged at 4131 on trip. MAR 2 1971  
Mud: 9.2 x 85 x 4.4

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

No report. MAR 3 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6417/143/64/0 (2 days drlg rept) CO and cond at 4961.  
Mud: 10.1 x 88 x 4.4 MAR 4 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test

6417/143/65/0. CO and cond at 5130.  
Mud: 10.4 x 90 x 4.8 MAR 5 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

6417/143/68/0. Reaming and washing at 4975.  
Made trips to CO to top of fish at 5138. Encountered  
bridges at 4600, 4760 and 4950. After several trips, hole  
was not in condition to run WP.  
Mud: 10.5 x 135 x 2.9 (Oil 6%) MAR 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

6417/143/69/0. Running in w/bit.  
CO to top of fish. Had difficulty w/fill. Pulled out and  
found hole in DP 26 jts up hole - in bottom of slip area in  
jt of DP. Btm collar washed out at bit sub. Running back  
w/bit. Cond hole to log. MAR 9 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

No report. MAR 10 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

No report. MAR 11 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" csg at 3500'

6417/143/72/0. (3 days drlg rept) Prep to place cmt plug  
on top of fish & run 7" csg.  
Ran logs as follows: Int BHCS/GR/Cal and DIL/SP. Ran  
washover pipe. CO to top of fish. Washed over six feet.  
Problems encountered washing over. Pulled WO pipe. Stuck  
several times on way out of hole. MAR 12 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
9 5/8" Csg at 3,500'

6417/143/75/0. Drlg cmt and CO.  
Ran 8 1/8" wash pipe. Bridge encountered from 4431-4475.  
Washed to top of fish at 5138. Washed over fish to 5144.  
High torque. Pulled wash pipe. Tight hole up to 4438.  
Ran bit and CO to 5138. Ran openended DP to 5138.  
Spotted 100 sx Type "G" cmt plug w/1% CFR-2. 16.2-16.8#/gal.  
Completed displacement 2:30 a.m. 3/13/71. Pulled DP for WOC.  
WOC 40 hrs. Ran bit and found green cmt at 4848. Washed  
to 4879. WOC additional 8 hrs. Washed to 4974 w/2-10,000  
lbs wt and 900 psi - 3 min/ft to 1 1/2 min/ft. Drl'd intervals  
at 2 min/ft w/5-6,000# wt. MAR 15 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6417/143/76/0. Cond hole to run 7" csg. CO of top of fish.  
Cmt in evidence but is not firm. MAR 16 1971  
Mud: 10.4 x 140 x 3.2 (Oil 3 1/2%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
9 5/8" Csg at 3500'

6417/143/77/0 WOC. Ran & cmt'd 7" csg @ 4985. Complete report  
will follow. MAR 17 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
7" Csg at 4985'

6417/143/78/0. WOC. CO w/8 3/4" bit to 5138. No cmt suitable for plug. Ran and cmt 116 jts 26# ST&C 7" csg at 4985' w/600 sx Type "G" cmt, 15% salt. Shoe at 4985, float at 4900. Plug down at 11:45 p.m. 3/16/71. MAR 18 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

No report. MAR 19 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
7" Csg at 4985'

6417/143/82/0. (4 days drlg report) WOC. Drld float collar and 7". CO through shoe to top of fish at 5138. Washed OH w/jet sub and cmt'd sub at 5138 w/150 sx type "G", 10% sd, and 3/4% PIC. Displacement complete 7:20 a.m. 3/21/71. MAR 22 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6417/143/83/0. Prep to dress cmt plug for dynadrill run at 4997. WOC total of 44 hrs. MAR 23 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
7" csg at 4985'

6417/143/84/0. Drlg w/3° kick sub and dynadrill at 5090'. Dev: 5° 30' S40°E at 5029. Polished off firm cement plug to 4997' and kicked off w/3° kick sub and dynadrill. MAR 24 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6417/143/85/0. Circ for survey at 5092. Ran following surveys: 5 1/2° @ 5029 S40°E, 5 1/4° @ 5057 S50°E, 4 1/4° @ 5092 S50°E. Laid down dynadrill and picked up DC's. Mud gradient - .520 MAR 25 1971  
Mud: 10 x 85 x 2.9 (Oil 2.5%).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
7" Csg at 4985'

6417/143/86/0. Drilling w/bit at 5113. Drld w/dynadrill and laid down. Picked up (6) 4 3/4 DC's and began drlg w/bit. Mud: 10.1 x 85 x 3 (Oil 2.5%). MAR 26 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River-  
Wasatch Test  
7" Csg at 4985'

6417/143/89/0. Taking survey at 5258. Dev: 2 3/4° @ 5118 S40°E, 2 1/2° @ 5165, 3° @ 5250. Mud: 10 x 78 x 3.2 (Oil 2%). MAR 29 1971

Shell-Ute 1-16D9 . 6417/143/90/0. Tripping at 5305. Dev: 3 3/4° @ 5305.  
(WC) Loffland Mud: 10.1 x 65 x 3 (Oil 1 1/2%). MAR 30 1971  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/91/0. Drilling at 5359.  
(WC) Loffland Mud: 10 x 64 x 3.4. MAR 31 1971  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/92/72. Drilling at 5431. Dev: 5° @ 5390.  
(WC) Loffland Mud gradient .494 APR 1 1971  
13,000' Green River Mud: 9.5 x 50 x 3.3  
Wasatch Test  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/93/0. Drilling at 5561. Dev: 5 1/4° @ 5452 and  
(WC) Loffland 5 3/4° @ 5536.  
13,000' Green River Mud gradient .500 APR 2 1971  
Wasatch Test Mud: 9.5 x 45 x 4.3  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/96/0. Drilling side-tracked hole at 6003.  
(WC) Loffland Dev: 5 1/4° @ 5452, 5 3/4° @ 5536, 5 1/2° @ 5627, 5 1/4° @ 5751,  
13,000' Green River 5 3/4° @ 5845, 6 1/4° @ 5937. APR 5 1971  
Wasatch Test Mud: (.488 gradient) 9.4 x 45 x 5.6.  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/97/0. Drilling side-tracked hole at 6137.  
(WC) Loffland Dev: 6 1/2° @ 6028.  
13,000' Green River Mud: (gradient .480) 9.2 x 44 x 5.4. APR 6 1971  
Wasatch Test  
7" Csg at 4985'

Shell-Ute 1-16D9 6417/143/98/0. Tripping at 6139.  
(WC) Loffland Laid down 24 jts pipe. Exchanged turbodrill. Replaced wash  
13,000 Green River pipe and packing. Tripped in, washed and reamed from 5400-  
Wasatch Test 5488. Tripped out and laid down stabilizer. Tripped in  
7" Csg at 4985' w/rerun bit #35. Washed and reamed from 5517-5699. Tripped  
out of tite hole; laid down turbodrill; picked up reamers and  
stabilizers and tripped in. Before last trip out, stuck pipe  
at 5456. Worked free in 1 1/2 hrs. APR 7 1971  
Mud: (gradient .468) 9 x 45 x 5.8 (Oil trc).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6417/143/99/0. Tripping at 6139.  
Washed and reamed from 5058-6139 18 hrs.  
Mud: (gradient .490) 9.4 x 50 x 5.2 (Oil trc). APR 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6417/143/102/0. Pulling to lay down turbo. Dev: 6½° @ 6231.  
Tried to run turbo to bottom - wouldn't go. Stopped at 5510.  
Reamed to 5670. Pulled turbo and washed and reamed w/bit  
#37 from 5340-6002. Washed and reamed from 6002-6139. Circ  
and cond hole. Washed 9' to btm. Made short trip w/11 stds -  
some tight spots, pulling. Ran back and hit bridge at 5620;  
could not drill through.  
Mud: (gradient .505) 9.7 x 52 x 4.4 (Oil trc). APR 12 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6417/143/103/0. Tripping w/turbo at 6376.  
Washed and reamed bridge at 5620-5823 several times. APR 13 1971  
Mud: (gradient .503) 9.6 x 47 x 4.6 (Oil trc) (Sd trc).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6450/143/104/33. Tripping for new bit and turbo.  
Mud: (gradient .505) 9.7 x 46 x 4.0. APR 14 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

6578/143/105/128. Drilling. Dev: 6½° @ 6502.  
Mud: (gradient .515) 9.9 x 48 x 4.2 (Oil trc). APR 15 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

6692/143/106/114. Drilling.  
On short trip, had to pull 9 singles w/Kelley & pump. Pulled  
1 stand & 2 singles w/o pump, then two more singles w/pump  
before freeing. Pulled total of 17 stds. Went back to btm  
w/o any difficulty.  
Mud: (gradient .515) 9.9 x 48 x 4.2 (oil trc). APR 16 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

7134/143/109/442. Drilling. Dev: 7° @ 6880, 8° @ 7070.  
Mud: (gradient .510) 9.8 x 46 x 3.8 (Oil trc). APR 19 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

7204/143/110/70. Drilling.  
Mud: (gradient .504) 9.7 x 45 x 3.8 (Oil trc). APR 20 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

7326/143/111/122. Drilling.  
Mud: (gradient .512) 9.8 x 47 x 3.7 (Oil trc). APR 2 1 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

7391/143/112/65 Reaming at 5681.  
Ran turbodrill to 5681. Hit bridge. Pulled turbo and ran  
conventional drlg assembly. CO bridge at 5681. APR 2 2 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

7391/143/112/0. Washing and reaming.  
Ran in w/turbo and bit. Stopped @ 5683; couldn't make  
any hole. Pulled out and ran in conventionally. - washed &  
reamed from 5683-5713; formation continues coming in.  
Mud: (gradient .515) 9.7 x 42 x 3.8 (Oil trc). APR 2 3 1971.

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

7529/143/115/138. Drilling. Dev: 7° at 7468.  
Worked stuck pipe - no returns. Circ & cond hole.  
Washed and reamed to bottom. Ran Int BHCS/GR/Cal -  
1st attempt - 5647', 2nd attempt 5610. Interval logged  
4984-5610. At 5516', pulled 1500# over tools to pull  
back - reattempted and went through at 5645' - stuck  
tools. Pulled 3300# to pull back. Tripped out w/bit  
at 7417'. Picked up turbodrill. Reamed from 7083-7141 -  
8' fill on bottom. Encountered 20 units gas to 7473,  
250 units from 7473-7500, 150 units from 7500-7529.  
Mud: (gradient .525) 10.1 x 5.3 x 3 (Oil 6.5%) APR 2 6 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

7678/143/116/149. Drilling. Dev: 7° at 7468. APR 2 7 1971  
Mud: (gradient .528) 10.1+ x 54 x 3.7 (Oil 6%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

7805/143/117/127. Drilling. APR 2 8 1971  
Mud: (gradient .525) 10.1 x 57 x 3.6 (Oil 5.5%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

7930/143/118/125. Drilling.  
Gas-cut mud from 7838' to 7842'.  
Mud: 10.5 x 51 x 3.4 (Oil 8%) APR 2 9 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

8134/143/119/204. Drilling. APR 30 1971  
Mud: 10.2 x 48 x 3.8 (Oil 7%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

8431/143/122/297. Reaming to btm.  
Drilled to 8216. Pulled pipe free all the way out. Laid  
down turbodrill. Drilled to 8422 w/200 stage turbo. Lost  
2/3 circ approx 150 bbls. Drilled to 8431 - plugged turbo-  
drill. Pulled dry. Ran in w/125 stage turbo. Reaming  
to btm; washed bridges from 8020-8060. MAY 3 1971  
Mud: 10.1 x 48 x 3.5 (Oil 8%).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

8485/143/123/54. Drilling.  
Drilled to 8478 w/125 stage turbo. Pulled w/175 stage turbo.  
Drilling, no trip trouble. Changed pipe rams - had  
blind on top. Had two sets of pipe rams below.  
Mud: 10.2 x 28 x 3.3 (Oil 8%). MAY 4 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

8649/143/124/164. Drilling.  
Lost approx 50 bbls mud in last 24 hrs. MAY 5 1971  
Mud: (gradient .530) 10.2 x 48 x 3.4 (Oil 6%).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

8816/143/125/167. Drlg. MAY 6 1971  
Lost 20 bbls mud in last 24 hrs.  
Mud: (gradient .530) 10.2 x 47 x 3.7 (Oil 5.5%).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

8957/143/126/141. Drilling.  
No mud lost last 24 hrs. MAY 7 1971  
Mud: 10.1 x 49 (Oil 6%).

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9042/143/129/85. Tripping for logs. Dev: 2 3/4" @ 8920.  
Core No. 1 8970-8992 Cut and rec'd 22'.  
8970-81½ Gry-blk, sh.  
8981½-83 Ls, fossiliferous, ostracods and plecyopods  
8983-88 Sh, as above  
8988-8992 Ls, as above  
Note: Calcite veins in fractures from 8972-73, 78-79, and  
88-90.  
Ran in w/175 stage turbodrill and drld to 9042. Pulled  
16 stds. Ran to 9042. Circ bottoms up. While attempting  
to run Sonic, stopped at 5623. Ran rock bit w/stabilizer to  
9042. Mud: 10.1 x 50 x 4.0 (Oil 6%). MAY 10 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg @ 4985'

9042/143/130/0. Going back in hole to clean & cond hole.  
Ran DIL/SP from 9018-4985', GR/BHC/Cal from 7019-4985'.  
Could not get below 7019' w/GR/BHC/Cal. Conditioned hole;  
could not get below 5619'. MAY 11 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

No report. MAY 12 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9251/143/132/186 (2 days drlg rept). Drilling.  
Mud: 10.1 x 50 x 4 (Oil 5.5%). MAY 13 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" csg at 4985'

9364/143/133/113. Drilling.  
Mud: (gradient .576) 10.1 x 50 x 3.9 (Oil 5.5%) MAY 14 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9654/143/136/290. Drilling.  
Mud: 10.1 x 47 x 3.9 (Oil 5%). MAY 17 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9722/143/137/68. Tripping for new bit.  
Mud: 10.1 x 47 x 3.8 (Oil 5%). MAY 18 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9875/143/138/153. Drlg w/turbo.  
Cleaned out bridges from 9030-9722.  
Mud: 10.2 x 4.2 x 4 (Oil 3.5). MAY 19 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

9952/143/139/77. Reaming to btm.  
Mud: 10.1 x 49 x 4.0 (Oil 3.5%). MAY 20 1971

Shell-Ute 1-16D9 9952/143/140/0. Tripping to change BHA. 23 hrs reaming  
(WC) Loffland and washing to 8500.  
13,000' Green River Mud: 10.1 x 49 x 3.7 (Oil 5%). MAY 21 1971  
Wasatch Test  
7" Csg at 4985'

Shell-Ute 1-16D9 10,119/143/143/167. Drlg.  
(WC) Loffland On 5/20/71, reamed and washed to 8500'. On 5/21,  
13,000' Green River drld bridges from 6850-9952.  
Wasatch Test Mud: 10.1 x 48 x 3.3 (oil 8.5%). MAY 24 1971  
7" Csg at 4985'

Shell-Ute 1-16D9 10,125/143/144/6. Picking up 3½" DP.  
(WC) Loffland Laid down DP.  
13,000' Green River Mud: 10.1 x 48. MAY 25 1971  
Wasatch Test  
7" Csg at 4985'

Shell-UP 1-16D9 10,125/143/145/0. Working on pump.  
(WC) Loffland Mud: (gradient .524) 10.1 x 49 x 3.4 (Oil 8.5%). MAY 26 1971  
13,000' Green River  
Wasatch Test  
7" Csg at 4985'

Shell-UP 1-16D9 10,193/143/145/68. Drilling.  
(WC) Loffland Worked tight hole @ 10,165. Lost 250 bbls mud past 24 hrs.  
13,000' Green River Mud: 10.1 x 3.9 (Oil 7.5%). MAY 27 1971  
Wasatch Test  
7" Csg at 4985'

Shell-UP 1-16D9 10,260/143/146/67. Drilling.  
(WC) Loffland Hook up went to btm w/o any bridges or tight spots. Had 70'  
13,000' Green River fill. MAY 28 1971  
7" Csg at 4985' Mud: 10.1 x 46 x 3.8 (Oil 7%).

Shell-Ute 1-16D9 10,482/143/150/222. Drilling.  
(WC) Loffland On 5/28/71 washed 60' of fill.  
13,000' Green River On 5/29/71 washed 15' of fill.  
7" Csg at 4985' 6 stds tight off btm on trip. JUN 1 1971  
Mud: 10.1 x 48 x 3.7 (Oil 8.5%).

Shell-Ute 1-16D9 10,563/143/151/81. Drilling.  
(WC) Loffland Hole condition found to be good.  
13,000' Green River Mud: 10.1 x 52 (Oil 8%). JUN 2 1971  
7" Csg at 4985'

Shell-Ute 1-16D9 10,654/143/152/91. Drlg.  
(WC) Loffland Tested BOP's to 3,000 psi.  
13,000' Green River Mud: 10.1 x 46 x 3.7 (Oil 7.5%). JUN 3 1971  
7" Csg at 4985'

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
10,732/143/153/78. Drilling. JUN 4 1971  
Mud: 10.1 x 46 x 3.6 (Oil 7%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
10,823/143/156/91. Drilling. Dev: 4° @ 10,730.  
On 6/5/71 while removing DP rubbers, lost 1 rubber pin in  
hole. No indication of being on bottom.  
Mud: 10.1 x 46 x 3.8 (Oil 7%) JUN 7 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
10,884/143/156/61. Drilling.  
Mud: 10.1 x 46 x 3.8 (Oil 7%) JUN 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
10,948/143/157/64. Drilling.  
Mud: 10.1 x 46 x 4.0 (Oil 6.5%) JUN 9 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
10,979/143/158/31. Drilling.  
Washed 10' of fill.  
Mud: 10.1 x 47 x 3.9 (Oil 6%) JUN 10 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,007/143/159/28. Washing to btm. Dev: 5 3/4° @ 10,960.  
Wash from 10,788 to 10,808, then wash 50' to btm.  
Mud: 10.1 x 50 x 3.8 (Oil 8%) JUN 11 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,158/143/162/151. Drilling.  
CO bridge at 10,800 and washed to btm  
Mud: 10.1 x 46 x 3.8 (Oil 9%) JUN 14 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,202/143/163/44. Drilling.  
Washed bridges from 10,758 to 10,871.  
Mud: 10.1 x 46 x 3.8 (Oil 9%) JUN 15 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,289/143/164/87. Drilling.  
Mud: 10.1 x 49 x 3.6 (Oil 7.5%) JUN 16 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,332/143/165/43. Drilling.  
Washed bridges from 10,900 to 11,200.  
Mud: 10.1 x 49 x 3.6 (Oil 7.5%) JUN 17 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" csg at 4985'  
11,372/143/166/40. Drilling.  
Washed to btm 25'. JUN 18 1971  
Mud: 10.1 x 49 x 3.7 (Oil 7%)

Shell-Ute 1-16D9 11,521/143/169/149. Drilling. Dev: 6° at 11,471.  
(WC) Loffland Washed 28'. Found 2' fill. JUN 2 1 1971  
13,000' Green River Mud: 10.1 x 46 x 3.8 (Oil 8%)  
7" csg at 4985'

Shell-Ute 1-16D9 11,572/143/170/51. Drilling. JUN 2 2 1971  
(WC) Loffland Mud: 10.1 x 47 x 3.8 (Oil 8%)  
13,000' Green River  
7" csg at 4985'

Shell-Ute 1-16D9 11,623/143/171/51. Drilling. JUN 2 3 1971  
(WC) Loffland Mud: 10.2 x 47 x 4.2 (Oil 7.5%)  
13,000' Green River  
7" csg at 4985'

Shell-Ute 1-16D9 11,695/143/172/72. Drilling. JUN 2 4 1971  
(WC) Loffland Mud: 10.1 x 46 x 4 (Oil 7%)  
13,000' Green River  
7" csg at 4985'

Shell-Ute 1-16D9 11,718/143/173/23. Drilling. JUN 2 5 1971  
(WC) Loffland Three stds tight off bottom. Washed from 10,260-11,700.  
13,000' Green River Mud: 10.1 x 53 x 3 (Oil 9.5%)  
7" csg at 4985'

Shell-Ute 1-16D9 11,864/143/176/146. Drilling. JUN 2 8 1971  
(WC) Loffland On 6/26, first 6 stds were tight and hit tite spot 30 stds off  
13,000' Green River btm. Lost 40 bbls mud between 11,844-11,849.  
7" csg at 4985' Mud: (gradient .525) 10.1 x 46 x 3.4 (Oil 10.5%)

Shell-Ute 1-16D9 11,936/143/177/72. Drilling. JUN 2 9 1971  
(WC) Loffland Mud: 10.1 x 27 x 3.6 (Oil 10.5%)  
13,000' Green River  
7" csg at 4985'

Shell-Ute 1-16D9 11,980/143/178/44. Fishing. JUN 3 0 1971  
(WC) Loffland Twisted off at 2603. Ran Bowen 5 3/4" overshot; would not  
13,000' Green River go over fish.  
7" Csg at 4985' Mud: 10.1 x 46 x 3.7 (Oil 9.5%)

Shell Ute 1-16D9 11,980/143/179/0. Fishing for DF. JUL 1 1971  
(WC) Loffland Tool joint top of fish appears to be split. Milled 8-10"  
13,000' Green River of tool joint w/flat btm mill. Ran 4 3/4" overshot;  
7" Csg at 4985' would not hold. Milled 18" w/6" concave mill. Ran 3 1/2" overshot,  
took hold of fish and attempted to back off and backed off high  
w/2 1/2 turns. Screwed in w/300' lbs torque. Grapple slipped off  
fish; chaining out to make up fishing string.

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
11,980/143/180/0. Laying down 3½" DP  
Circ btms up. String free when pulled up to come out of hole.  
Mud: 10.1 x 49 x 3.7 (Oil 9.5) JUL 2 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
12,096/143/184/116. Tripping.  
7/3/71, changed out 3½" DP. Laid down 3 DC's, boxes swollen,  
plus one good DC (Pipe correction: 13' added to depth.)  
7/3/71, washed bridges at 6880-7000 and 11,852-11,980.  
7/4/71, drilled ahead.  
7/5/71, washed bridges at 10,780 & 11,335. Found 45'  
fillup @ 11,793. Attempted to run logs. Tool stopped @  
4989 and 5118 going in. Released logging unit.  
Mud: 10.1 x 47 x 3.6 JUL 6 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
12,159/143/185/63. Drilling.  
Attempted to run logs. Tool stopped at 4,999'.  
Mud: 10.1 x 46 x 3.5 (Oil 9%) JUL 7 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
12,226/143/186/67. Coring. Dev: 7 3/4° @ 12,200.  
Mud: 10.1 x 48 x 3.6 (Oil 9%) JUL 8 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
12,254/143/187/28. Cond'g mud to hole.  
Core No. 2 12,200-12,253 Cut and rec'd 53'  
12,200-205 Silt, maroon-gry, calc, sdy  
12,205-209 Ss, gry, vf gr, mod sorting calc, argillaceous  
12,209-211 Ss, a.a., becoming silty  
12,211-215 Ss, med gr qtz, calc, 15% dk minerals, calc  
healed frags.  
12,215-218 Silt, maroon-gry, calc, sdy  
12,218-239 Ss, gry, vf gr, mod sort, calc, argillaceous  
12,239-243 Ss, med gr, gry, calc, mod sort  
12,243-253 Ss, vf gr, gry, calc, mod sort, argillaceous.  
Note: No shows, many induced frags JUL 9 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
7" Csg at 4985'  
12,264/143/190/10. Preparing to run 5" liner.  
On 7/9/71, attempted to log and stopped at 5268 in OH.  
Ran in 3½" openended DP to 6824. Ran log through pipe  
to 12,264 as follows: Gamma Ray.  
On 7/10, circ and cond mud. Tripped in w/openended DP to  
6859; attempted to log; could not get down. Tripped into  
8,221, logged for 3½ hrs - ES-SP and pulled up to 5859 and  
ran Cal. Tripped in to 11,692 and circ to plug back.  
On 7/11/71 plug #1 - hung 3½" openended DP at 11,658 -  
equalized w/50 sx Class "G", 1% CFR-2, w/84 bbls mud. CIP  
8:55 a.m. Plug #2 - hung 3½" openended DP at 10,447 -  
equalized w/100 sx Class "G", 1% CFR-2 w/75 bbls mud.  
CIP 9:35 a.m. Pulled out and ran to 7" shoe. WO cmt  
w/6 1/8" bit. Tagged top plug at 9924. Polished off to 9949.  
Cond mud to run 5" liner.  
Mud: 10.1 x 47 x 3.6 (Oil 9%) JUL 12 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
5" liner at 8405'

12,264/143/191/0. WOC.  
Ran and cmt 104 jts (3620') 5" 15# J-55 triple seal liner.  
Liner hanger at 4785, Bkr Type GH float at 8362, Bkr type  
"G" shoe at 8405. Cmt'd w/500 sx Class "G" cmt, 2% gel, 1%  
CFR-2 w/103 bbls mud. Bumped plug to 8362 w/1500 psi.  
Float held. CIP 11:45 p.m. 7/11/71. Laid down DP and DC's.  
JUL 13 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
5" liner at 8405'

12,264/143/192/0. PB 8359. Running logs.  
WOC 20½ hrs. Ran 6 1/8" bit and tagged top of liner.  
Circ btms up - no cmt. Pulled and ran 2 7/8" tbg stinger  
w/mill and tagged float collar at 8359. Circ btms up - no  
cmt. JUL 14 1971  
Mud: 10.1 x 47 x 3.6 (Oil 9%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
5" liner at 8405'

12,264/143/193/0. PB 8359. Running in w/Bkr stinger.  
Ran bond and collar logs (OWP). Set retrievable retainer  
at 5575. Broke circ around liner through holes at 5676  
w/400 psi. Pulled retainer and set drillable ret on line at  
5500' (OWP). JUL 15 1971  
Mud: 10.2 x 47 x 3.7 (Oil 9%)

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
5" liner at 8405'

12,264/143/194/0. PB 8359. Cleaning out cmt.  
Stung into Bkr Model "K" ret at 5500'. Cmt'd w/500 sx Class  
"G" cmt, 2% gel, and 1% CFR-2. Displaced w/41.5 bbls mud.  
Pulled out of Model "K". Bled off from 400 psi to 0 w/11  
bbls mud return. Pulled out of hole. CIP 10:15 a.m.  
WOC 10½ hrs. Ran 6 1/8" bit and tagged top of cmt at 3948.  
Drld out cmt to 4785'. JUL 16 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River Test  
5" liner at 8405'

No report. JUL 19 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River Test  
5" liner at 8405'

8359/143/198/0 (4 days drlg report). MORT.  
Laid down DP. Installed Cameron Xmas tree spool. Ran 126 jts  
2 7/8" EUE tbg to 3929'. Hung on donut. Installed Xmas tree.  
Shut well in. Released rig 8 a.m. 7/20/71. JUL 20 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Test  
5" liner at 8405'

8359. MORT. JUL 21 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Test  
5" Liner @ 8405'

8359. MORT. JUL 2 2 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Test  
5" liner at 8405'

8359. Cleaning up location; installing deadmen anchors.  
JUL 2 3 1971

Shell-Ute 1-16D9  
(WC) Loffland  
13,000' Green River  
Test  
5" Liner @ 8405.

8359. WOCR. JUL 2 6. 1971

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" liner @ 8405'

WOCR. JUL 2 7 1971

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" Liner @ 8405

WOCR. JUL 2 8 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Prep to RUCR.  
MI Completion Rig (Colo. Well Service) 7/28/71. JUL 2 9 1971

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Prep to pick up 2 7/8" tbg. Removed  
Xmas tree and installed 6" 5000# BOP's. SI overnight. JUL 3 0 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Prep to acid treat.  
On 7/30/71, pulled 3900' 2 7/8" EUE tbg. Run back in as follows: 2 jts 2 7/8" EUE Bkr ret pkr, 4' pup jt, 256 jts 2 7/8" EUE. All tbg drifted and visually inspected. Tbg tail at 8075. SI for night.  
On 7/31/71, displaced hole w/10.5#/gal CaCl<sub>2</sub> wtr. BOP would not test. Replaced rams. Tested pipe rams, tbg & csg to 1000 psi - ok. Pulled 9 jts 2 7/8" tbg. Set pkr at 7717 w/tail to 7785. Opened pkr bypass, displaced tbg w/fresh wtr. Closed pkr bypass. Swab FL down to 2000'. MI&RU (OWP). Check FL at 2130'. Check tbg tail at 7786. Perf 7840-7860 w/2 jts/ft. Slight blow on tbg after perf'g. No press in 15 min. Logged perfs. RD & MO (OWP). RU to swab. No tbg press after SI for 1½ hrs. FL at 5500 - no cuts. SI overnight.  
On 8/1/71, 13 hr SITP 250 psi. Well flowed 1 bbl fluid in ½ hr. Swabbed FL down to 7500' in 1½ hrs. MI&RU hot wtr to circ heat coils in tank. Drained wtr from tank. Heated tank to 150°F at 3 p.m. Total swabbed to 3 p.m., 22 BO, 32 BW, 35 bbls load wtr in tbg. Last 3 hrs swbd 3.7 BO, 1 BW. FL at 7300. Swabbing from 7600. Total swbd 59 bbls. SI overnight. AUG 2 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" Liner @ 8405'

TD 12,264. PB 8359. Swab testing.  
On 8/2/71, SIP - 200 psi. Bled off tbg in ½ hr, FL 4800'. Swabbed 11 BO and 1 BW in 2 hrs, FL down to 7600'. MI&RU Dowell. Acid treated 7840-60 w/5000 gals 15% HCl containing 3 gal F-40 & 4 gal Al30/1000 gals HCl as follows: Press'd csg to 1000 psi. Bullheaded acid into formation at ½ B/M at 2500 psi. Max press 2900, min 2600, avg 2700. Max rate 4½ B/M, min ½, avg 3 ¾. Final pump press 2900. ISIP 2200, to 2000 in 5 min, to 1900 psi in 15 min. (Load = 166 bbls including fresh water flush).  
Note: All fluids preheated to 110°F.  
200 psi press break just after acid on formation. MO Dowell. 1½ hr SITP 1600. Op'd well to pit flowing flush wtr on 16/64" chk. FTP down to 20 psi in ½ hr. Flowed est 35 bbls wtr in 2½ hrs, RU to swab and swbd est 35 BL and acid wtr in 2 hrs, FL 5800'. SF 6300' on last run. (96 bbls load to rec). SI overnight. AUG 3 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test 5" liner @ 8405'

TD 12,264. PB 8359. Swab testing. 13 hr SITP = 500 psi, FL @ 1800. Swb'd est 65 bbls fluid to pit in 4 hrs. Last 2 runs indicated good percentage of oil. Switched to 210 bbl tank. Swb'd 34 bbls in 6 hrs - 30½ BO and 3½ BW. Avg rate last 6 hrs = 5 BO/H, 0.6 BW/H, FL 7350, SF 7600. Total swabbed to date - 169 bbls. (Lack 30-35 bbls load to rec). AUG 4 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Preparing to perf 7470-7490.  
12-hr SITP = 300. FL @ 1800. Swb'd 37½ BO in 3½ hrs, FL 7300, SF 7600. Total swbd = 134 BW, 68 BO. RD swab. Displaced tbg w/10.5#/gal CaCl<sub>2</sub> wtr. Pulled tbg and pkr. Ran back in w/ret BP, ret pkr on 2 7/8" tbg. Set ret BP at 7566, pkr at 7341, w/tbg tail to 7411. Tested BP and pkr to 1250 psi down tbg. AUG 5 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Going in hole w/ret BP, pkr, and tbg. Displaced CaCl<sub>2</sub> wtr in tbg w/fresh wtr through pkr bypass. Closed bypass. Tested tbg and csg to 1000 psi. Swabbed FL down to 3000'. Ran perf gun but could not get perforating gun out of tbg and pulled out of hole. Filled tbg w/fresh wtr and pressured to 800 psi. Released pkr, reverse circ 1½ times tbg vol. Reset pkr. Opened pkr bypass and displaced w/fresh wtr. Swabbed FL down to 3000'. Ran in w/perf'g gun and could not get out of tbg. Pulled out of hole. RD OWP. Pulled tbg, pkr, and BP, SI overnight. AUG 6 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. 8/6/71, ran in hole w/ret BP, 2 jts 2 7/8" tbg and ret pkr on 2 7/8" tbg. Set BP at 7535, pkr at 7341, w/tbg tail @ 7414. RU (OWP). Ran in w/sinker bar to check for foreign material in tools. Displace tbg w/fresh wtr. Press test tbg, BP & pkr to 1200 psi. Swbd FL to 3000'. RU to perf. Chkd FL @ 2950. Perf'd 7470-7490 w/2 jets/ft using 1 11/16" ceramic cased charges. Logged perfs. MO (OWP). Swbd 30 BLW in 4 hrs. FL 7100, swbd from 7300. Swbd 1 3/4 bbls in last 2 hrs. SI overnight. 8/7/71, 14 hr SITP 25 psi. No fluid in hole. Filled tbg w/CaCl<sub>2</sub> wtr. Released pkr & lowered tbg tail to 7486. Tested liner to 5000 psi. Spotted acid (Dowell) @ end of tbg. Set pkr @ 7411. Press csg to 1000 psi. AT 7470-90 w/5000 gals 15% HCl containing 3 gals F-40 and 4 gals A-130/1000 gals HCl as follows: pmpd 2 bbls @ ¼ B/M @ 3200 psi. Had 200 psi press break. Max press 3300, min 2800, avg 3200 psi. Max rate 4½ B/M, min ¼ B/M, avg 3½ B/M. FFP 3300 psi, ISIP 2400, 15 min SITP 2200 psi, 35 min SITP 1900 psi. Load 165 bbls. RD (Dowell). Op'd well to pit. Flowed est 20 BLW in 1 hr. Swbd est 55 BLW to pit in 4 hrs, and 7 BO to tank in 2 hrs. FL 7000', swbg from 7300. Load to rec - 90 BW. SI overnight. 8/8/71, 12-hr SITP 150 psi. Bled off press. FL 3600. Swbd 28 BF in 4 hrs, 19 BO and 9 BW. FL @ 7000', swbd from 7300. Total swbd 103 bbls. RD swab. Filled tbg w/CaCl<sub>2</sub> wtr. Released pkr & BP. Reset BP @ 7007 and pkr @ 5426 w/tbg tail @ 5499. Press test BP & pkr to 1200 psi. Displace tbg w/fresh wtr. Swbd FL down to 3000. Ran in w/sinker bars to chk openings for tools. RU (OWP) and perf'd 5555-5576 w/2 jts/ft using 1 11/16" ceramic cased charges. Logged perfs. RU to swab. FL rose 1000' in ½ hr. Swbd 29 BF in 2½ hrs. Rec'd show of oil mostly mud & wtr. FL 4500. SF 5350. Pmpd 9 BW down tbg to flush mud. SI overnight. AUG 9 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. 11-hr SITP 0, FL 1700. Swbd est 15 bbls mud to pit in one hr and then swbd addt'l 62 BF in 11 hrs, mostly emulsified oil and drlg mud. FL 5000'. SF 5400'.

AUG 10 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" Liner @ 8405'

TD 12,264. PB 8359. Swabbing; prep to acid treat.  
12-hr SITP 100, FL 1800'. Swbd 57 BF in 11 hrs - mostly  
emulsified oil and drlg mud w/less mud as swbg progresses.  
Last 3 hrs, swbd 7 BF, 70% oil, FL 5000', SF 5400'. AUG 11 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. 12 hr SITP = 75. FL @ 2000'.  
Swbd 21 BF, 80% oil, 20% mud, in 2 hrs, FL @ 4800'. MI&RU  
Dowell. Preheat acid to 200° F. Tested line to 5000 psi.  
Press'd casing to 1,000 psi. Acid treated perfs 5555-5576 w/  
5000 gals, 15% HCl containing 3 gals of S-40 and 4 gals of A-130  
per 1,000 gals as follows: Pumped acid to formation, 24 bbls to  
fill hole. Had slight break when acid reached formation.  
Increased rate from ½ B/M to 5½ B/M. Max rate - 5 ¾ B/M,  
min rate ½ B/M, avg rate 5½ B/M. Max pressure 2500, avg  
pressure 2300. Final pumping pressure 2400. ISIP 1500,  
to 1300 in 15 min. (162 bbls load to recover). RD Dowell.  
Opened well to pit. Flowed an estimated 40 bbls load water  
to pit in 2 hrs. RU to swab and swabbed an est 55 bbls con-  
sisting of mostly load water w/good show of oil in 7 hrs.  
FL @ 2200'. SF 2000'. AUG 12 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. 12-hr SITP 50 psi.  
Swbd 65 bbls acid wtr -mud -and oil emulsion. By grind out -  
30 B0 and 35 Bbls acid wtr and mud in 10 hrs. FL 4700'.  
SF 5400'. Good gas blow after each swab run. At dark last  
night no air movement on location. Gas was accumulating  
around location. AUG 13 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" Liner @ 8405'

TD 12,264. PB 8359. Prep to pull tbg, pkr, & BP.  
On 8/13/71, 11 hr SITP 300, FL 1200'. Swbd est  
121 BF in 23 hrs, 50% mud, 50% oil.  
Average rate last 4 hrs - 6 B/H. 50% cut, FL 4600',  
SF 5400'.  
On 8/14/71, swbd 73½ bbls in 24 hrs. Avg rate last 4 hrs -  
3 B/H, 90% oil, FL 4800', SF 5400'.  
On 8/15/71, swbd 70½ bbls in 24 hrs, 90% oil, FL steady  
at 4800'. SF 5400'. AUG 16 1971

Shell-Ute 1-16D9  
(WC) Colo Well Serv.  
13,000' Green River  
Test  
5" Liner @ 8405'

TD 12,264. PB 8359. Perforating.  
Filled tbg with water. Opened pkr by-pass. Displaced CaCl<sub>2</sub>  
water out of tbg-csg annulus. Released pkr and ran in 20 jts  
2 7/8" tbg. Reversed hole clean. Est 10 bbls mud reversed out.  
Ran in 20 jts 2 7/8" tbg. Reversed out 10 bbls mud. Engaged  
top of bridge plug. Reversed until clean. Pulled BP and pkr.  
MI&RU OWP. Perf 7642-48 & 7100-7108 with two 10 gram jets/ft  
using 3 5/8" OD csg carrier gun. AUG 17 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing.  
Perf (OWP) using 10 gm steel jets 2/ft w/3 5/8" OD csg carrier  
gun. Perf as follows: 6722-30, 6520-26, 6168-74, 6132-36,  
6018-26, 5792-98, 5684-96, 5670-78, 5450-68, 5420-24, 5390-95  
5350-76, 5323-26, 5200-03, 5170-80, 5139-43, 5100-04, 5070-75.  
RD&MO (OWP). Ran MA Baker tbg A/C, 1 jt 2 7/8 tbg. SN and 251  
jts 2 7/8" tbg. MA tail @ 7930, A/C @ 7902, SN @ 7871. RU  
to swb. Swbd 174 bbls LW in 9½ hrs. FL 4200'. Swbbg from 5000.  
Total load to recover 225. AUG 18 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. Swbd 188 bbls, approx 80%  
oil in last 24 hrs. FL 5500'. Swbg from 6500. CP 250 psi.  
Rec'd swab load plus 137 BNF. (Oil rec'd is black frothy  
w/some emulsion.) AUG 19 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing. Swbd 126 BO and 56 bbls  
muddy load wtr in 24 hrs. FL worked down to 6600'. SF 7500'.  
CP 400 psi. AUG 20 1971

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner at 8405'

TD 13,398. Swabbing.  
On 8-20, Swbd 97 BO and 32 bbls muddy wtr in 24 hrs, FL 6300',  
SF 7400', CP 300.  
On 8-21, Swbd 48 BO and 71 bbls muddy wtr in 24 hrs, FL 6500',  
SF 7400', CP 325.  
On 8-22, Swbd 108 BO and 19 BW in 24 hrs, FL 6500', SF 7400',  
CP 325. AUG 23 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. PB 8359. Swabbing.  
In 24 hrs. swabbed 89 BO and 22 BW, FL 6900', SF 7600',  
CP 250. Total swbd to date - 1028 BF.  
Note: Error made in report of depth on yesterday's wire--  
should have read as above. AUG 24 1971

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 13,398. Swabbing. Swbd 96 BF in past 24 hrs, 50 BO and  
46 BW. FL 6800'. SF 7700'. CP 300 psi. Total swbd to date  
1124 BF, 899 over load. AUG 25 1971

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Swabbing. Swbd 96 BF in past 24 hrs, 48 BO and  
48 BW. FL 7100'. SF 7700. CP 370 psi. Total swbd to date  
1220 BF, 995 bbls over load.  
Note: Wtr sample, dated 8-23-71, contained 8,000 ppm chl and  
1700 ppm calcium. AUG 26 1971

Shell-Ute  
1-16D9  
(WC) Colo Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to load hole and pull tbg. Swbd 40 BO and  
31 BW in 24 hrs. FL 7200'. SF 7700'. Total swbd to date  
1291 bbls. AUG 27 1971

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to pull tbg.

**AUG 30 1971**

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to lay down tbg. 7 a.m. 8-30 - TP 150 psi, CP 600 psi. Pmpd 40 bbls fresh wtr down tbg and 40 down csg. Tbg went on vacuum and CP dropped to 0. Pulled tbg and A/C. RU (QWP). Set Bkr WL drillable 5" BP @ 4955. Perf 4490 w/4-way sqz gun. Set Bkr WL cmt retainer @ 4450. Ran 50 jts tbg.

**AUG 31 1971**

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to cmt thru sqz perms at 4490. Laid down 50 jts tbg. Ran remaining tbg w/locator seal assembly to 4400'. Circ hole w/fresh wtr. **SEP 1 1971**

Shell-Ute  
1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8,405'

TD 12,264. Prep to CO cmt. Ran 2 stands 2 7/8" tbg w/stinger. Stung into retainer. Attempted to press 2 7/8" x 7" annulus. Unable to do so. Pulled out of cmt retainer, dropped plastic ball and tested 2 7/8" tbg to 2000 psi. Held okay. Reversed out ball. Press annulus above retainer to 3000 psi for 5 min. Held okay. Stung into retainer and after some difficulty press held on annulus. Broke circ at 1000 psi and circ 230 bbls of clear wtr. Sqzd perms at 4490 at 1600 psi at 5 bbls/min. Cmt w/300 sx Class "G" cmt. Max press 1600 psi. Job complete 10:30 a.m. 9-1-71. Pulled 2 stands 2 7/8" tbg. Reversed w/30 bbls clear wtr. Pulled 2 7/8" tbg w/stinger. **SEP 2 1971**

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Pulling tbg, DC's and bit. WOC 24 hrs. Ran 2 7/8" tbg and 6 1/8" bit. Drld Bkr cmt retainer @ 4450. Found good solid cmt to 4490. Press tested to 1000 psi for 15 min. Held okay. Ran tbg and bit to 4785. Circ hole clean. Pulled back to 4450. **SEP 3 1971**

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to run CBL. Pulled 2 7/8" tbg, 4-4 3/4" DC's and 6 1/8" bit. MI&RU (OWP). Ran CBL from 4200-4750 under 0 press and from 4300 to 4750 under 1200 psi press. Found top cmt at 4410. Had cmt indicated at the following intervals: 4420-4429, 4439-49, 4449-67. Ran CBL under 1200 psi sfc press, no indicated difference. Ran 2 7/8" tbg w/Bkr full-bore retrievomatic pkr w/2 jts tbg tail. Set pkr @ 4293 and tail @ 4356. Perf (OWP) 4428-40 and 4462-68 w/2, 26 gm tornado blast jets/ft. WHP remained @ 0 psi. Hole filled w/fluid. Swbd 21 BW and 50 bbls mud in 3 hrs. Fluid remained @ 1000'. Pulled 2 7/8" tbg and Bkr retrievomatic pkr. Ran and set Bkr Model K cmt retainer on WL @ 4406. FL @ 96' while running retainer. Ran 2 7/8" tbg and stinger assembly and stung into 7" retainer. Broke circ up 7 x 9 5/8" annulus w/1200 psi and circ 100 bbls clear wtr @ 5 B/M @ 1100 psi. Cmt thru Bkr retainer w/300 sx class G cmt w/.6% Halad-9. Good circ throughout. CIP 6:30 p.m. 9-4-71. Stung out of retainer. Reversed w/30 bbls clear wtr. Pulled 2 stds 2 7/8" tbg. Tripped out w/2 7/8" tbg and stinger. PU 6 1/8" bit, 4 - 4 3/4" DC's and ran in on 2 7/8" tbg to 4200'. WOC. Drld retainer and 10-15' of good cmt, ran bit to top of liner at 4785. Pulled tbg, DC's and bit. SLP 7 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Prep to perf. MI&RU OWP. Ran CBL w/0 psi on csg. Good bonding to top of cmt at 4376. With 1000 psi on csg, CBL indicated good bonding up to 4020. Poor bonding from 4020-3670- top of cmt. RD OWP. Ran in with Bkr ret pkr on 2 7/8" tbg, 2 jts 2 7/8" tbg in seating nipple, and set pkr at 4301 w/tail to 4371. SEP 8 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Swabbing. RU (OWP). Perf thru tbg 4428-40 and 4462-68 w/2 jets/ft using 2 1/8" 26 gram tornado glas jets. RD (OWP). RU to swab. Swbb'd 83 bbls muddy wtr w/trace of oil and gas in 8 hrs. Avg rate last 3 hrs, 7 BW/H w/trace of oil and gas. FL 3900. Swbb'g from 4300. SEP 9 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. Swab testing. 12-hr SITP 25 psi. FL at 500'. Est first swab run-10% oil. Made 14 swab runs in 5 hrs to swab FL down to 3800'. Filled 7" csg annulus w/fresh wtr to check for communications down annulus to perms. Took 36 bbls fresh wtr to fill. Swab est 144 bbls fluid in 12 hrs-137 BW and 7 BO. Average last 3 hrs = 6 B/H, 5% Oil, 95% water cut, FL 3800, SF 4300'. SEP 10 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Serv.  
13,000' Green River  
Test  
5" liner @ 8405'

TD 12,264. Swabbing. 12-hr SITP 125 psi, FL 700'. First three runs swbd 80-90% oil. Water analysis of wtr swbd on 9-9-71 analyzed as follows: 1700 ppm chlorides, 11.2 carbonates, 4.8 bicarbonates, w/ph of 10+. Filled 7" csg annulus w/4 bbls fresh wtr. Swbd 163 BF in 28 hrs, (15 BO and 148 BW), FL 3800', SF 4300'. Total swbd in 48 hrs-22 BO and 378 BW. RD swab. MI & RU Dow. Acid treated gross perms 4428-68 w/1000 gals 15% HCl containing 3 gal S-40 and 4 gals A-130 and dispersed 100# OS-90 Wide Range and 50# OS-90-Button Unibeads in acid. Bull-headed acid down 2 7/8" tbg. Max press 2700, min-1400. Max rate 8 B/M, avg-8 B/M, min-8 B/M. Final pump press 2700. ISIP 1400, to 750 in 15 min. RD Dowell.

Note: 7" csg annulus open while treating w/n blow on annulus. On 9-12, 15 hr SITP = 0, FL 400'. Est 13 BO plus 254 BW in 22 hrs, FL 3500', SF 4300'. Avg rate last 8 hrs = 8 B/H, 95% cut.

SEP 13 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Service  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. Prep to pull tbg and pkr. Swbd 9 BO and 183 BW in 24 hrs. Present rate - 8 B/H, 95% wtr cut, FL 3800', SF 4300'.  
SEP 14 1971

Shell-Ute 1-16D9  
(WC) Colo. Well Service  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. Cleaning out hole. Pulled 2 7/8" tbg and Bkr ret pkr. CO four 4 3/4" DC's. Picked up 4 1/4" bit and ran in on 2 7/8" tbg. Drld out CIBP at 4955. SEP 15 1971

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. MI equip to plug well. (Disc until plugging complete)  
SEP 16 1971

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. WELL PLUGGED AND ABANDONED.  
(RRD 9-16-71) Pumped 400 sx cem into perms 4428-7840. Chkd top of cem at 4400' w/tbg. Pmpd in cem at 1500 psi. Pmpd 75 sx cem down 13 3/8-9 5/8" csg annulus at 70 psi. Pmpd 50 sx cem down 9 5/8-7" csg annulus at 300 psi. Pulled 2 7/8" tbg and placed 45 sx cem in top of 7" csg. Cut off 9 5/8" & 7" csg 3' below GL. Welded on 1/4" steel plate. Installed abandonment marker. Released rig 1 p.m. 9-27-71. P&A Complete.  
Elev: 6617 KB

LOG TOPS:

TGR <sub>2</sub>	2795 (+3822)
TGR <sub>3</sub>	4137 (+2480)
Wasatch	6090 (+ 529)
Cretaceous	11,240 (-4623)

After extensive testing, this well was plugged and abandoned due to inability in sustaining commercial rates in the Green River-Wasatch zones. OCT 6 1971  
FINAL REPORT.

CASING AND CEMENTING

Area: Slab Canyon

Well: Ute 1-16D9

KB-CHF: 18.5'

Shoe joint started in hole at 8:30 a.m. 1/18/71.

Ran 83 jts 36#, smls, K-55 ST&C 9 5/8" casing to 3500'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>LT&amp;C</u> <u>ST&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
83	36#	K-55	ST&C	New	3508.44	Sfc	3500'

83 Jts Total

Flexi-flow Collar at 3414'  
Guide Shoe at 3500'

No. Make & Type:

(4) Bkr Type "M" centralizers spaced at 3494', 3371', 3285', & 3199'.

Cementing:

Cemented through shoe at 3500' with 1,000 sx 60-40 poz, 2% gel, and 3% salt blended w/1/4#/sx Nylon fibers and 500 sx Class "G" Neat w/3% salt, 1/4#/sx Nylon fibers. Wt - 13.6#/gal.

Total displacement - 266 bbls, amount displaced - 190 bbls.

76 bbls slurry left in csg (985'), 249 bbls slurry outside (100% fillup - 4300'), (325 bbls total). 26 bbls Class "G" Neat cmt out of csg (465' fill)

Mixing time - 50 min

Displacement time - 28 min

CIP 12:45 p.m. 1/18/71

CASING AND CEMENTING

Area: Slab Canyon

Well: Ute 1-16D9

Shoe joint started in hole 3/16/71.

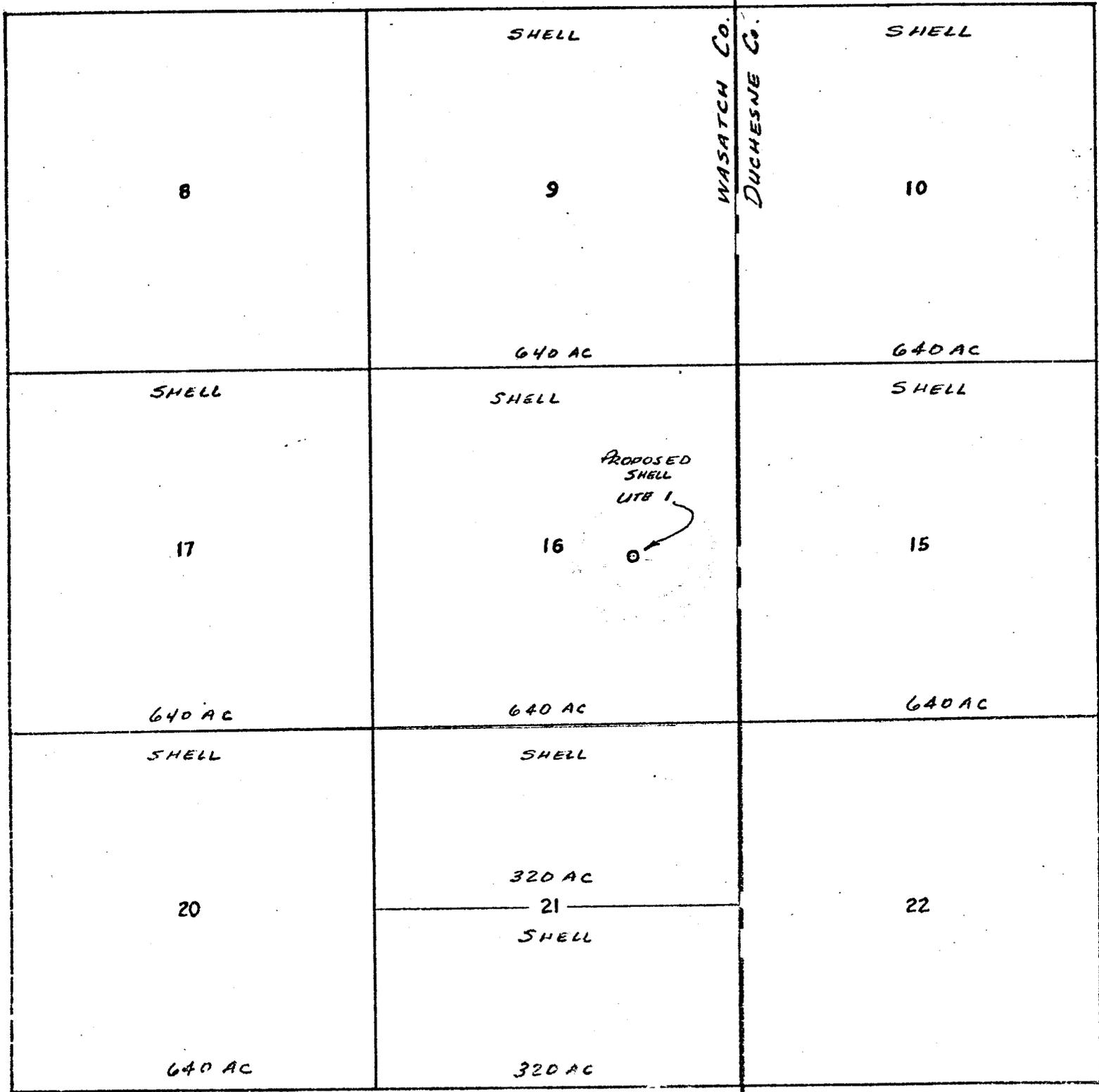
Ran 116 jts. 7" csg to 4,900'.

<u>Jts.</u>	<u>Wt.</u>	<u>Grade</u>	<u>ST&amp;C</u> <u>LT&amp;C</u>	<u>New</u>	<u>Feet</u>	<u>From</u>	<u>To</u>
116	26#		ST&C		4,985'	Sfc	4,985'

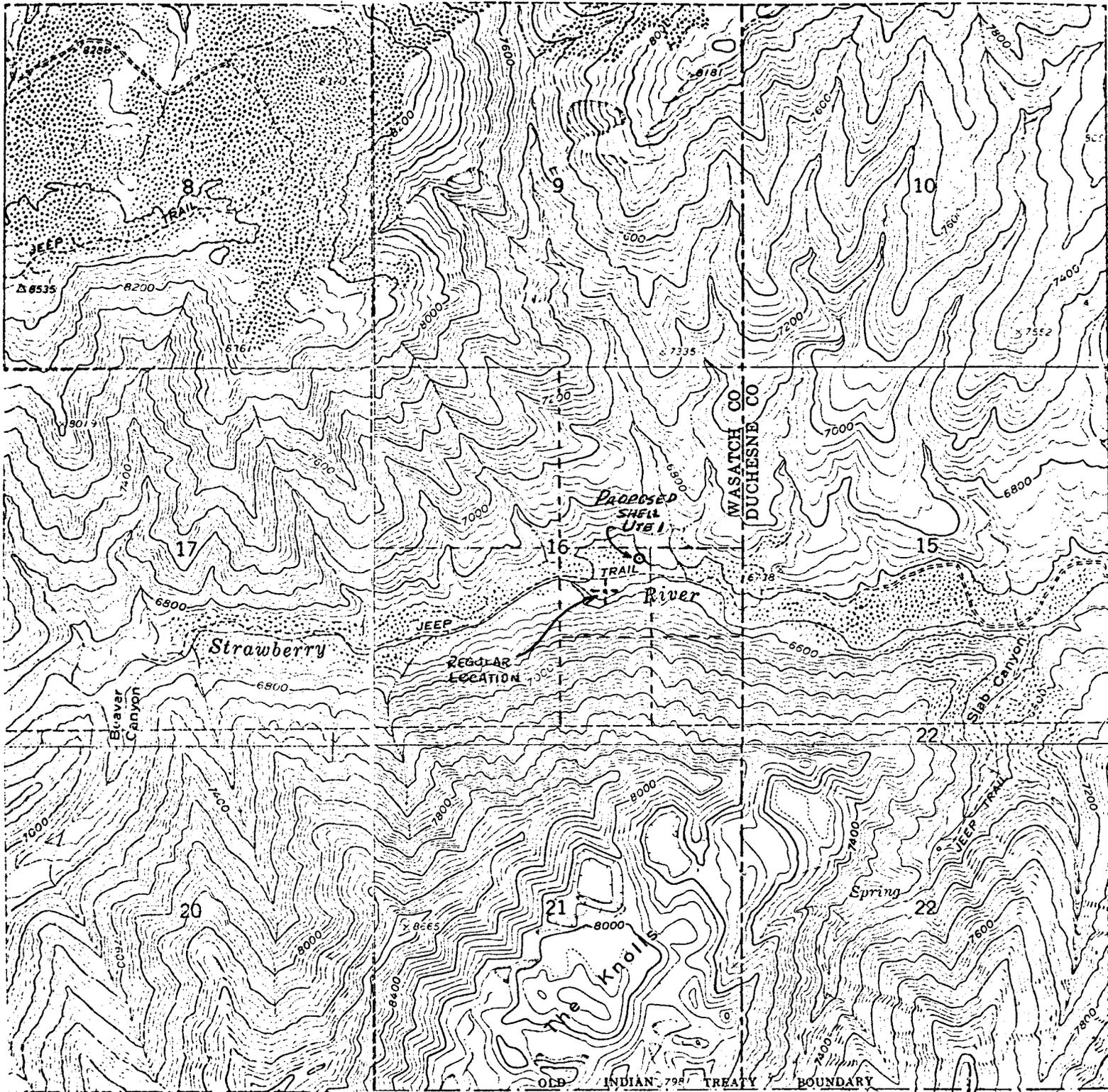
116 Jts. Total

Float at 4,900'  
Shoe at 4,985'

Cementing: Cemented through shoe at 4,985' with 600 sx Class "G" cement, 15% salt. Plug down 11:45 p.m. 3/16/71.



SLAB CANYON AREA  
 LEASE OWNERSHIP PLAT  
 SCALE  
 1" = 2000'



2

SLAB CANYON AREA

TOPOGRAPHIC MAP

SCALE

1" = 2000'

PLUGGING PROGRAMS  
\*\*\*\*\*

NAME OF COMPANY: Shue Oil Co.

WELL NAME: Shue-Ute-1-1629

Sec. 16 Township 4S Range 9W County Wasatch

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

TD. 13,264' Gr. Liner - Wasatch

Cement plug in open hole from 9949-11,692  
5" liner set at 8405' - 4725' 7" from 4725'  
& surface.

Set model "k" retainer at 4750', displace 300  
sacks class "6" cement below retainer &  
across pipe from 5070-7840: cement contain  
1% CFR-2. Run drill pipe to 4300' & break  
head @ 75 sacks class "6" cement across  
pipe from 4430-4468. Pump 300 sack class  
"6" cement containing 2% calcium chloride  
into 13 3/8", 9 5/8" casing annulus @ Pump 50 sacks  
class "6" into 9 5/8", 7" casing annulus. Place  
75 sacks into top of 7" casing, cut off 13 3/8", 9 5/8"  
7" casing at cellar floor level & weld a plate  
across casing surface. Install marker & restore

Date Approved: 9-14-71 Signed: Scherer

site to original condition.

(Program taken from Nick Matthews)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLIC.

(See other instructions on reverse side)

Utah Oil & Gas Commission  
Form approved.  
Budget Bureau No. 42-R355.5

5. LEASE DESIGNATION AND SERIAL NO.

TR 14-20-462-591

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Ute Indian Tribe

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ute

9. WELL NO.

1-1609

10. FIELD AND POOL, OR WILDCAT

Slab Canyon Area (Wildcat)

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

NE 1/4 SE 1/4 Section 16-  
T 4S-R 9W

12. COUNTY OR PARISH  
Wasatch

13. STATE  
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

2. NAME OF OPERATOR  
Shell Oil Company (Rocky 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 2463' F.L. and 1518' F.L. Sec 16

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 12-30-70  
16. DATE T.D. REACHED 7-9-71  
17. DATE COMPLE. (Report to prod.) R&A'd 9-27-71  
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6598 GL, 6617 KB  
19. ELEV. CASINGHEAD 19'

20. TOTAL DEPTH, MD & TVD 12,264  
21. PLUG, BACK T.D., MD & TVD  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS  
Total

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/SP, Int BHCL/GR/Cal, FDC/GR/Cal, SNP/GR/Cal, and PL/ML  
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"		124'	17 1/2"	150 SX	0
9 5/8"	36%	3500'	12 1/2"	1500 SX	0
7"	26%	4985'	8 3/4"	600 SX	0

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5"	4785	8405	500				

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
As per attachments			

33.\* PRODUCTION  
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL PLUGGED AND ABANDONED  
WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

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

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED Original Signed By J. C. HOWELL TITLE Division Operations Engr. DATE Dec. 6, 1971

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

2 cc's: Oil and Gas Commission - Salt Lake City

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

14-20-H62-3385

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ute

9. WELL NO.

1-16D9

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

16-T4S-R9W

12. COUNTY OR PARISH

Wasatch

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL  GAS WELL

OTHER  Re-entry of abandoned oil well

2. NAME OF OPERATOR

Koch Exploration Co., a division of Koch Industries, Inc.

3. ADDRESS OF OPERATOR

1 Park Central, Suite 530, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)

At surface

2463' FSL and 1518' FEL  
Section 16-T4S-R9W

14. PERMIT NO.

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

KB 6617, GL 6598

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

Re-entry to test

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(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 sheets.

(The Tribal Oil and Gas Lease under which Shell Oil Company drilled the well originally was number TL-14-20-462-591)



APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 5-5-76

BY: C.S. Lightfoot

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

SIGNED Charles D. McComb

TITLE Exploration Manager

DATE April 2, 1976

(This space for Federal or State office use)

APPROVED BY 43-057-30003

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Verbal by CB7 - 5-3-76

SHELL-UTE NO. 1-16D9

Pressure Monitoring and Control Data  
(7-Point Plan)  
4-13-76

1. Surface Casing: 13-3/8" was set at 125'. The weight and grade is not available in our files. It should have been filed by Shell in 1971 when they drilled the well.
2. The casingheads and flanges were cut off when the well was abandoned in 1971. The 9-5/8" - 13-3/8" is full of cement and no flange or head is needed.
3. Intermediate Casing: 9-5/8" casing was set at 3500'. Weight and grade not available in our files. It should have been filed by Shell in 1971 when they drilled the well. Plan to weld a plate between the 7" and 9-5/8" casing (annulus is full of cement). Plan to weld a nipple on the cut off 7" casing, install a Series 900 flange and test to 3000# before drilling out cement plugs.
4. Blowout Preventors: Will use Shebestor of Hennessey, Inc. Pulling Unit on well. They will furnish a Cameron Type "F" Series 1500 6" BOP with two sets of rams (blind rams and for 2-7/8" tubing). A 2-7/8" full opening valve will be readily available for installation when making trips. Testing and killing the well will be done thru the tubing. No fill, kill or choke lines will be used except a direct connection from the pump to the tubing.
5. Auxiliary Equipment: Plan to use a Shaffer Type 51 Rotating Head 6" 900 Series. Will have 2-7/8" valve for stabbing, if necessary.
6. Anticipated Bottom Hole Pressure: Maximum pressure anticipated at 8400' known to be less than 4500#.
7. Type Drilling Fluid: Plan to use 10.5# water to drill out with and then whatever weight water is necessary to kill the various zones being tested.

May 4, 1976



ONE PARK CENTRAL  
SUITE 530  
1515 ARAPAHOE STREET  
DENVER, COLORADO 80202

Division of Oil, Gas and Mining  
1588 West, North Temple  
Salt Lake City, UT 84114

Re: Re-Entry of Ute 1-16D9Well  
Section 16-T4S-R9W  
Wasatch County, Utah

Gentlemen:

Please keep confidential all information on the  
captioned well for the time prescribed by law.

Yours very truly,

Charles D. McCormick  
Exploration Manager

mwc

SLAB CANYON AREA

Shell-Ute 1-16D9  
(WC)  
13,000' Green River  
Test  
5" liner at 8405'

TD 12,264. WELL PLUGGED AND ABANDONED.  
(RRD 9-16-71) Pumped 400 sx cem into perfs 4428-7840. Chkd top of cem at 4400' w/tbg. Pmpd in cem at 1500 psi. Pmpd 75 sx cem down 13 3/8-9 5/8" csg annulus at 70 psi. Pmpd 50 sx cem down 9 5/8-7" csg annulus at 300 psi. Pulled 2 7/8" tbg and placed 45 sx cem in top of 7" csg. Cut off 9 5/8" & 7" csg 3' below GL: Welded on 1/4" steel plate. Installed abandonment marker. Released rig 1 p.m. 9-27-71. P&A Complete.  
Elev: 6617 KB

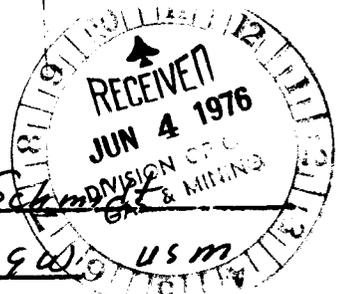
LOG TOPS:

TGR <sub>2</sub>	2795 (+3822)
TGR <sub>3</sub>	4137 (+2480)
Wasatch	6090 (+ 529)
Cretaceous	11,240 (-4623)

After extensive testing, this well was plugged and abandoned due to inability in sustaining commercial rates in the Green River-Wasatch zones.

FINAL REPORT.

ORAL APPROVAL TO PLUG AND ABANDON WELL



Operator Koch Exploration Co Representative Orville Schmidt

Well No. 1-16 D9 Located NW 1/4 SE 1/4 Sec. 16 Twp 45 Range 90

Lease No. TL 3385 Field W/c Re-entry, Wasatch Co State Utah

Unit Name and Required Depth \_\_\_\_\_ Base of fresh water sands \_\_\_\_\_

PBTD Size hole and 5" 4785-8405 Mud Weight MgCl wtr  
 T.D. 8350 Fill Per Sack 7 "4785" and Top 10 3 #/gal. wtr  
 to Sur

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
13 3/8	125'	Sur				
9 5/8	3500					
7"	4985-	3670'		Sur	100'	100' cement plug
Formation	Top	Base	Shows	w/reg	marker	
5" Liner 4785-8405.						
				4050	3900'	150' cement plug
				4800	4650	150' ✓ ✓
				5200'	5050	150' ✓ ✓
				7100'	6950'	150' ✓ ✓

Re-entry  
 See Key of old file  
 TL 591

Remarks Plug. ops 6/4/76 AM

DST's, lost circulation zones, water zones, etc. Re-entry Cleaned out to plug @ 8350' Perf 4034 - 8290 Tstd no shows no comm. prod - Perfs: 4034 - 4210 sel 5172 - 5524 sel 7088 - 8290'

Approved by E. J. [Signature] Date 6/3/76 Time 10:00 A.M. P.M.

cc: Oper w/ Cond of Approval Put Surfaces  
 BIA, Ft. Duchesne (op)  
 USGS, Vernal X. Oil, Gas & Mining, State of Utah

Koch Exp. of  
 Reentry Well  
 UTE 1-16D9  
 NW/SE Sec. 16  
 T48-R9W  
 Wasatch Co., Utah  
 Koch - E. MATTESON  
 BIA - A. VALVERDE  
 USGS - B. FIANT

- NO effect
- ENHANCE
- MINOR impact
- MAJOR impact

	Construction				Pollution				Drilling Production				Transport Operations			Accidents		Others
	Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks

Land Use	Forestry	✓																		
	Grazing	✓	/	/	/	/	/	/									/	/		
	Wilderness	✓																		
	Agriculture	✓																		
	Residential-Commercial	✓																		
	Mineral Extraction	✓																		
	Recreation	✓				/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Scenic Views	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Parks, Reserves, Monuments	✓																		
	Historical Sites	✓	NO EVIDENCE																	
	Unique Physical Features	✓																		
Flora & Fauna	Birds	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Land Animals	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Fish	✓				/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Endangered Species	✓	NONE KNOWN																	
Phy. Charact.	Trees, Grass, Etc.	✓	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Surface Water	✓				/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Underground Water	✓																		
	Air Quality	✓				/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Phy. Charact.	Erosion	✓																		
	Other	✓																		
	Effect On Local Economy	✓																		
	Safety & Health								/	/	/	/	/	/	/	/	/	/	/	
	Others	ORIG-FILE BIA - w/ MATRIX REG Mgr UTAH STATE OG & M																		

Lease UTE TRACTAL 14-20-H62-385

Well No. & Location 1-16D9 NW/SE Sec 16 T49

R9W WASATCH Co. UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

Koch Exp. Co. PROPOSES TO RE-ENTER AN EXISTING ABANDON WELL originally drilled by Shell Oil Co in 1971. TO DRILL OUT CEMENT AND TEST ZONES TO 8400'. TO CLEAR & LEVEL A DRILLING LOCATION 75' X 150' AND TO CONSTRUCT A RESERVE PIT 20' X 20' X 6' TO ACCOMMODATE OPERATIONS. TO GRADE APPROX 300' NEW ACCESS ROAD

2. Location and Natural Setting (existing environmental situation)

THE PROPOSED WELL SITE IS APPROX 35 MILES SOUTH WEST OF DODDSDENE, UTAH. THE LOCATION WILL BE CONSTRUCTED ALONG AN EXISTING ROAD APPROX 300' NORTH OF THE STRAWBERRY RIVER. THE AREA IS GENERALLY EXTREMELY ROUGH WITH STEEP RIDGES RISING MORE THAN A 1000' FROM THE RIVER BOTTOM. THE SITE IS IN A FLAT AREA & WILL REQUIRE ONLY MINIMUM SURFACE DISTURBANCE. THE SURFACE IS PRIVATE AND IS USED FOR PERMANENT PASTURE. IF THIS AREA IS DEVELOPED EXTREME CARE WILL BE REQUIRED IN PLANNING FUTURE WELL SITES & FACILITIES. THERE IS A NARROW ONE LANE ROAD TO THE PROPOSED SITE WHICH PASSES THROUGH SEVERAL RANCHES AND RECREATIONAL AREAS. THERE ARE ALSO SEVERAL SUMMER CABINS ALONG THE STRAWBERRY RIVER & RED CREEK. VEGETATION CONSISTS OF SEVERAL SPECIES OF EVERGREEN TREES (FIR, SPRUCE, PINE JUNIPER WITH AN UNDERSTORY OF SAGE BRUSH SERVICE BERRY, OAK BRUSH & NATIVE GRASSES. WILDLIFE FOUND IN THE AREA ARE ELK, MULE DEER, RABBITS, COYOTES AND OTHER SMALL RODENTS & BIRDS.

### 3. Effects on Environment by Proposed Action (potential impact)

- Distraction from the aesthetics
- Disturbance of livestock & wildlife during drilling
- Minor Air pollution during drilling created by rig engines & support traffic
- minor induced erosion
- loss of vegetation - (to be assessed)
- Increase in dust created by traffic along access road

### 4. Alternatives to the Proposed Action

- NOT Approving the A.P.D
- Moving the location would require drilling an entire new well resulting in additional surface disturbance and disturbance of livestock & wildlife created by the additional time required

5. Adverse Environmental Effects Which Cannot Be Avoided

- Distraction from the aesthetic
- disturbance of live stock & wildlife
- minor air pollution
- minor increase erosion
- loss of natural vegetation
- increase in dust along access road

6. Determination

(This requested action (~~is~~) (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 4-30-76  
Inspector B. J. [Signature]

[Signature]  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

*Conf.*

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-H62-3385

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ute

9. WELL NO.

1-16D9

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

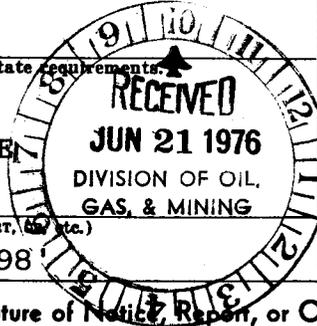
Sec. 16-4S-9W

12. COUNTY OR PARISH

Wasatch

13. STATE

Utah



1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Koch Exploration Co, Division of Koch Industries Inc.

3. ADDRESS OF OPERATOR

P.O. Box 2256, Wichita, Kansas 67201

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

2463' FSL & 1518' FEL NW SE

14. PERMIT NO.

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

KB 6617' GR 6598'

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)

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

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

The subject well was plugged as instructed by the U.S.G.S.

Plugging commenced 6/4/76 and was completed 6/5/76.

The following procedure was followed:

- The #1 plug - 15 sx fm 7100-6950' - 150'
- The #2 plug - 15 sx fm 5200-5050' - 150'
- The #3 plug - 30 sx fm 4800-4650' - 150'
- The #4 plug - 30 sx fm 4050-3900' - 150'
- The #5 plug - 20 sx fm 100' to surface.

*Accepted for Records only*

~~APPROVED~~ BY THE DIVISION OF OIL, GAS, AND MINING

DATE: June 22, 1976

BY: P. L. Russell

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

SIGNED

*Thomas J. Gault*

TITLE Asst. Operations Manager

DATE June 17, 1976

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER 14-20-H62-3385  
UNIT Ute



**LESSOR'S MONTHLY REPORT OF OPERATIONS**

State Utah County Wasatch Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of May, 1976,

Agent's address P.O. Box 2256 Company Koch Exploration Company  
Wichita, Kansas 67201 Signed Henry J. Gault

Phone (316) 832-5483 Agent's title Asst. Operations Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SE 16	4S	9W	1-16D9							5/5/76 Moving in equipment. TD 12,264', 7" csg @ 4985', 5" liner from 4785-8405'. Original PBD 8359', 400 sx 4424-7840' & 45 sx in top of 7". Drilled out hard cmt. Casing clean to 6904'. PBD 8366'. Ran Coor & CL logs from 8350 to 7046' (Corr. to old Shell log). Perf 5" liner 8093- 8100', 8208-14', 8233-37', 8255-73', 8278-90' w/lHPF. Total 122 holes. Acidized w/16,000# 15% NE, using 60# BAF/1000 gals plus 200 ball sealers. PBD 8350'. Corrected perfs: 7100-08' (orig. perfs), 7182-88', 7432-36', 7500-05', 7511-15', 7581-85', 7642-48' (orig. perfs), 7680-83', 7704-08', 7731-40', 7784-88', 7840-60' (orig. perfs), 7950-53', 8020-24', 8054-59', 8064-66', 8093-8100', 8208-14', 8233- 37', 8255-73', 8278-90'. Total 21 intervals, 142' w/163 holes. Set RBP @ 7238' & pkr @ 3952'. Ran GR & CH logs. Moved RBP to 5631' & pkr. @ 5600', held 2500# press. Reset pkr @ 5023'. Perf Green River 5172-80', 5312-20', 5348-55', 5420-26', 5450-68', 5516-24', 5555-76', 7 intervals, 76' w/83 holes. Acidized w/9000 gal 15% NE w/100#/1000 gal. Trip in, dressed for 7" csg., set BP @ 4278', pkr @ 3985'. Perf 7" csg. 4034-44', 4062-65', 4200-10' w/1 HPPF, 3 intervals, 23' w/26 holes. Acdzd. w/2000 gal 15% reg w/1000 BAF/1000 gals. No trace of oil & very little gas.

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER 14-20-H62-3385  
UNIT Ute

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Wasatch Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 1976,

Agent's address P.O. Box 2256 Company Koch Exploration Company  
Wichita, Kansas 67201 Signed Vernon J. Jones

Phone (316) 832-5483 Agent's title Asst. Operations Manager

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NW SE 16	4S	9W	1-16D9							PBD 8350'. Set RBP @ 8311' & pkr @ 7985', acdzd perfs 7950-8290' w/10,000 gal 15% NE w/100#/1000 gal. Moved RBP to 7900' & pkr to 7390', acdzd perfs 7432-7860' w/10,000 gal 15% NE w/100# BAF/1000 gal. Reset RBP @ 8311- & pkr @ 7390'. Pulled RBP, pkr & tbg. Prep to P & A. 6/4/76

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Koch Exploration Co. #1-16D9	2463'FSL, 1518'FEL, sec. 16, T. 4 S., R. 9 W., USM, Wasatch Co. Utah. Gr. El. 6598'	14-20-H62-3385

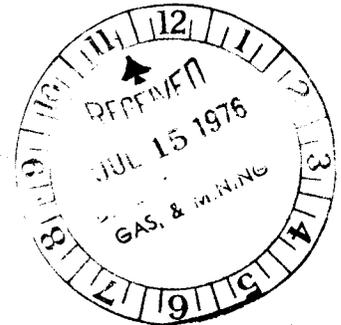
1. Stratigraphy and Potential Oil and Gas Horizons. *Shell-Slab Canyon #1-16D9 (same section) reported the following tops: Uinta-surface, Green River-2795', Wasatch-6090', Cretaceous-11,240'.*

2. Fresh Water Sands. *WRD reports as follows: see page 2.*

3. Other Mineral Bearing Formations. *This location falls within the oil shale with- (Coal, Oil Shale, Potash, Etc.) drawal area, E.O. 5327. However, Cashion's maps so not extend far enough to estimate depths and quality of oil shale. Picard (p. 139, IAPG Guidebook, 1959) reports that in California Co.-Slab Canyon #1, sec 26, T. 5 S., R. 10 W., USM, the black shale facies of the Green River (lowermost Green River) contains (continued on next page)*

4. Possible Lost Circulation Zones. *None known.*

5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. *None known.*



6. Possible Abnormal Pressure Zones and Temperature Gradients. *None known.*

7. Competency of Beds at Proposed Casing Setting Points. *Probably competent.*

**CIRCULATE TO:**

- DIRECTOR \_\_\_\_\_
- PETROLEUM ENGINEER \_\_\_\_\_
- MINE \_\_\_\_\_
- ADMINISTRATIVE ASSISTANT \_\_\_\_\_
- ALL \_\_\_\_\_

8. Additional Logs or Samples Needed. *None.*

RETURN TO: Lu  
FOR FILING

9. References and Remarks *None.*

Date: July 13, 1976

*State Oil & Gas*  
Signed: *Ellen Marie Rea*

Shell-Slab Canyon #1-16D9 - continued

2. Fresh Water Sands - continued

"Formation tops, approximate:

Uinta Fm	surface
Green River Fm	100 ft (?)
Wasatch Fm	5,600 ft
Cretaceous	12,000 ft

There are no water wells of record in the near vicinity of the proposed test. Sandstone units of the Uinta and Green River Fms should be regarded as potential aquifers bearing fresh or usable water to depths of about 3,000 ft."

WRD - 12/11/70

3. Other Mineral Bearing Formations - continued

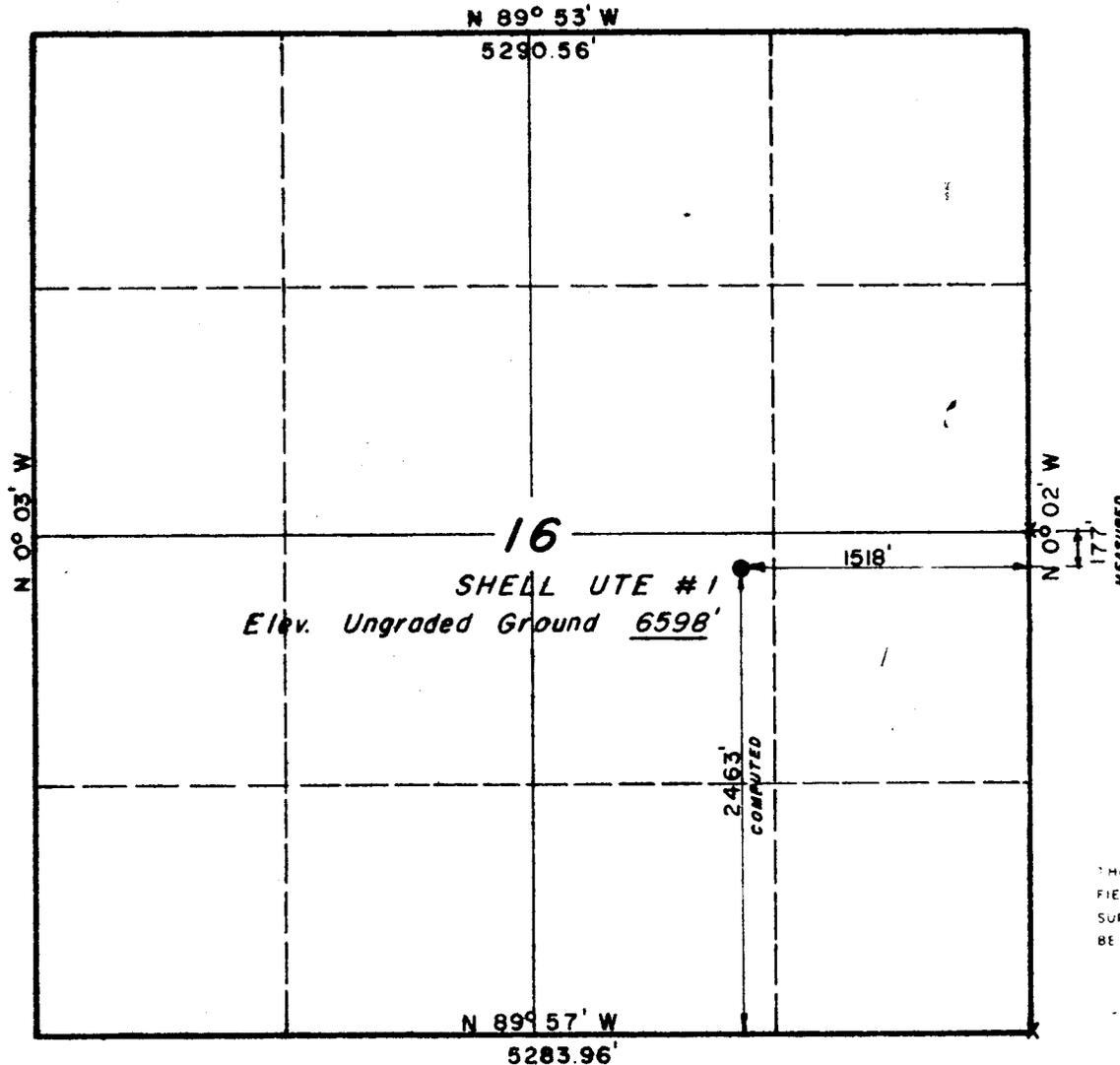
low to medium grade oil shale. Also he states that in the Jack Burnett #1, sec. 34, T. 4 S., R. 11 W., USM, the Parachute Creek and Evacuation Creek Members of the Green River have only one bed, near the base, of shale that would yield 10 gallons per ton. This well is about  $\frac{1}{2}$  mile due north of lands valuable prospectively for solid and semi-solid hydrocarbons.

T4S, R9W, U.S.B.&M.

PROJECT

SHELL OIL COMPANY

Well location, located as shown  
in the SE 1/4 Section 16, T4S,  
R9W, U.S.B.&M. Wasatch 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

*Jane Stewart*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

X = Corners Located

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

SCALE 1" = 1000'	DATE 18 Nov. 1970
PARTY G.S. L.D.T. W.R.	REFERENCES GLO Plat <i>15</i>
WEATHER Fair	FILE SHELL OIL CO.



Scott M. Matheson  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

GUY N. CARDON  
Chairman

DEPARTMENT OF NATURAL RESOURCES

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116

CLEON B. FEIGHT  
Director

February 7, 1977

Koch Exploration Co.  
P. O. Box 2256  
Wichita, Kansas 67201

Re: Well No. Ute 1-16D9  
Sec. 16, T. 4S, R. 9W  
Wasatch County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3 in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER  
RECORDS CLERK

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIANGLE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-H62-3385  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ute

9. WELL NO.

1-16D9

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 16-4S-9W

12. COUNTY OR PARISH 13. STATE

Wasatch

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Koch Exploration Co, Division of Koch Industries Inc.

3. ADDRESS OF OPERATOR

P.O. Box 2256, Wichita, Kansas 67201

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

2463' FSL & 1518' FEL NW SE

14. PERMIT NO.

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

KB 6617' GR 6598'

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)

(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.)\*

*Confidential*

The subject well was plugged as instructed by the U.S.G.S.

Plugging commenced 6/4/76 and was completed 6/5/76.

The following procedure was followed:

- The #1 plug - 15 sx fm 7100-6950' - 150'
- The #2 plug - 15 sx fm 5200-5050' - 150'
- The #3 plug - 30 sx fm 4800-4650' - 150'
- The #4 plug - 30 sx fm 4050-3900' - 150'
- The #5 plug - 20 sx fm 100' to surface.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: Feb 17, 1977

BY: P. H. Durand



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

SIGNED

*James D. Gault*

TITLE Asst. Operations Manager DATE June 17, 1976

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

SHELL UTE NO. 1-16D9

3-30-76

Recommended Re-Entry Procedure:

1. Dig out old well head. Hot tap to make sure it is not pressured up. Weld flange on 7" csg to install BOP. Weld 7" to 9-5/8" csg seal. Test to 3000# before drlg out.
2. Run 6-3/4" bit & drill out cement plugs as indicated in well file. (45 sk plug set in top of 7" csg & 400 sk plug 4400-7840'.) The top of cement of the btm 400 sk plug was checked & found to be at 4400'. The btm of the plug could be anywhere from the first set of perms at 4428-40' to the btm set at 7840-60'.
3. Need to have 10.5#/gal CaCl<sub>2</sub> wtr to drill out with to keep well under control.
4. After drlg out cmt to 4475', press test perms 4428-40 & 4462-68' w/1500# to make sure they are sqzd off. Resqueeze if necessary before drlg any deeper.
5. Finish drlg out & circ hole clean to approx 8400'.
6. Run 2-7/8 tbg w/Baker 5" Lok-set pkr. Set pkr @ 7350'.
7. Displace tbg w/fresh wtr before setting pkr. Put 10 bbls diesel in tbg.
8. Perf 5" liner w/1 HPF as per attached sheet, 7432-8392' (22 intervals, 143' w/165 holes). While drlg out cmt, check interval 7840-60' which has already been perf, to determine if it needs to be reperf.
9. Acidize all perms together w/15,000 gal 15% NE, 200 ball sealers & 60# BAF/1000 gal.
10. Flow & swab test well thru a line heater into a gas-oil separator. Flare the gas in a pit & dump all fluid into a tank. Check wtr w/color cut.
11. Haul all wtr & oil to a present Cedar Rim battery. Keep track of oil for royalty payment.
12. Do not flow well unless someone is on location. Make sure master valve is closed before leaving location.
13. If it is decided to test additional zones, kill well w/10.5 CaCl<sub>2</sub> wtr.
14. Pull tbg & pkr.
15. Run tbg, 5" RBP & 5" pkr. Set RBP @ 7000' & pkr @ 6700'. Displace tbg w/fresh wtr before setting pkr.
16. Perf 5" liner 6724-32 & 6954-58' w/1 HPF (2 intervals, 12' w/14 holes). Note that interval 6722-30' has already been perf & if not covered with

cmt when drlg out, does not need to be reperf.

17. Acidize perfs w/1000 gal 15% NE & 20 ball sealers.
18. Swab test.
19. Squeeze off w/cmt if wtr prod or proceed if oil prod.
20. Move RBP up to 5550' & set pkr @ 5150'.
21. Perf 5" liner 5172-5524' w/1 HPF (5 intervals, 37' w/42 holes). (Note that 3 intervals have been perf.)
22. Acidize perfs w/4000 gal 15% NE, 50 ball sealers & 60# BAF/1000 gal.
23. Swab test.
24. Squeeze off if wtr prod or leave open & proceed if oil prod.
25. Pull 5" pkr & RBP.
26. Run 7" RBP & set @ 4250', set 7" pkr @ 4000'.
27. Perf 7" csg 4034-44, 4062-65 & 4200-10' w/1 HPF (3 intervals, 23' w/26 holes).
28. Acidize w/2000 gal 15% NE, 35 ball sealers & 60# BAF/1000 gal.
29. Swab test.
30. Determine from production tests how to put on production or set cmt plugs per USGS if uneconomical.
31. Install Gray or Rector 3000# & 5000# WP Wellhead equipment if put on production.

SHELL UTE NO. 1-16D9

3-30-76

Well Data

TD 12,264'      KB 6617"      GL 6598'

PBD 8359'

13-3/8" csg @ 125'

9-5/8" csg @ 3500'

7" csg @ 4985' (wt unknown) Top cement 3670'

Good bonding to 4020', poor from 4020-3670'.

5" liner from 4785' to 8405' (wt unknown)

Do not believe well was drld out, PBD 8359' must be the float collar.

Squeeze 4 holes @ 4490' w/300 sx.

Cement plugs: 400 sx into perfs 4424-7840'  
75 sx down 13-3/8" - 9-5/8" annulus  
50 sx down 9-5/8" - 7" annulus  
45 sx in top of 7" csg

Cut off 9-5/8" & 7" csg 3' below ground level

Welded 1/4" steel plate on top of csg

Well P & A 9-27-71.

INTER-COMPANY MEMO



DATE March 22, 1976

TO O. Schmidt

FROM C. D. McCormick

SUBJECT Recommended Perfs Shell 16D9 Re-Entry  
Section 16-4S-9W, Wasatch County, Utah

<u>Recommended Wasatch Perfs</u>	<u># Feet</u>	<u># Shots</u>
7432-36	4	5
7500-05	5	6
7511-15	4	5
7581-85	4	5
7640-50	10	11
7680-83	3	4
7704-08	4	5
7731-40	9	10
7784-88	4	5
7840-60	20	21
7950-53	3	4
8020-24	4	5
8054-59	5	6
8064-66	2	3
8093-8100	7	8
8208-14	6	7
8233-37	4	5
8255-73	18	19
<u>8278-90</u>	<u>12</u>	<u>13</u>
19 Intervals	128	147
<u>Below Bridge Plug @ 8359</u>		
8358-66	8	9
8377-80	3	4
8388-92	4	5
<u>8400-04</u>	<u>4</u>	<u>5</u>
4 Intervals	19	23

In the event that uncommercial production is obtained from the preceding perforations, the following intervals are added for perforation prior to abandonment:

<u>Green River Perfs</u>	<u># Feet</u>	<u># Shoes</u>
4034-44	10	11
4062-65	3	4
4200-10	10	11
5172-80	8	9
5312-20	8	9
5348-55	7	8
5420-26	6	7
<u>5516-24</u>	<u>8</u>	<u>9</u>
8 Intervals	60'	68

<u>Wasatch Redbed Perfs</u>	<u># Feet</u>	<u># Shots</u>
6724-32	8	9
<u>6954-58</u>	<u>4</u>	<u>5</u>
2 Intervals	12	14

The DIL and mud log were the principle means of determination of favorable intervals. Generally a 20 ohm cutoff was used with a couple of exceptions. Good oil shows were important in selecting the Green River and Wasatch Redbed perfs.

mwc

cc: R. G. Walton

Shell UTE 1-16D9

Present Perforations

7840-60 Treated w/5000 gal  
7470-90 Treated w/5000 gal  
5555-76 Treated w/5000 gal

7642-48  
7100-08  
6722-30  
6520-26  
6168-74  
6132-36  
6018-26  
5792-98  
5684-96  
5670-78  
5450-68  
5420-24  
5390-95  
5350-76  
5323-26  
5200-03  
5170-80  
5139-43  
5100-04  
5070-75

*5670 LGR. mh*

Perf 4 way sqz gun @ 4490' - cmt w/300 sx. Tested w/1000#.

4428-40 Perf - recovered mud  
4462-68 cmtd w/300 sx

Good cmt bonding up to 4020' w/1000 psi on csg

Perf 4428-40' and 4462-68' - Treated w/1000 gal, tested 9 BO & 183 BW in 24 hours.

Drld out CIBP @ 4955' - Pumped 400 sx cmt into perf 4428-7840 - Top cmt @ 4400'. Placed 45 sx plug in top of 7" csg.

Cut off 9-5/8 & 7" csg 3' below GL. Welded 1/2" steel plate on top.

INTER-COMPANY MEMO



DATE March 19, 1976

TO R. T. Bick

FROM J. A. Ziser

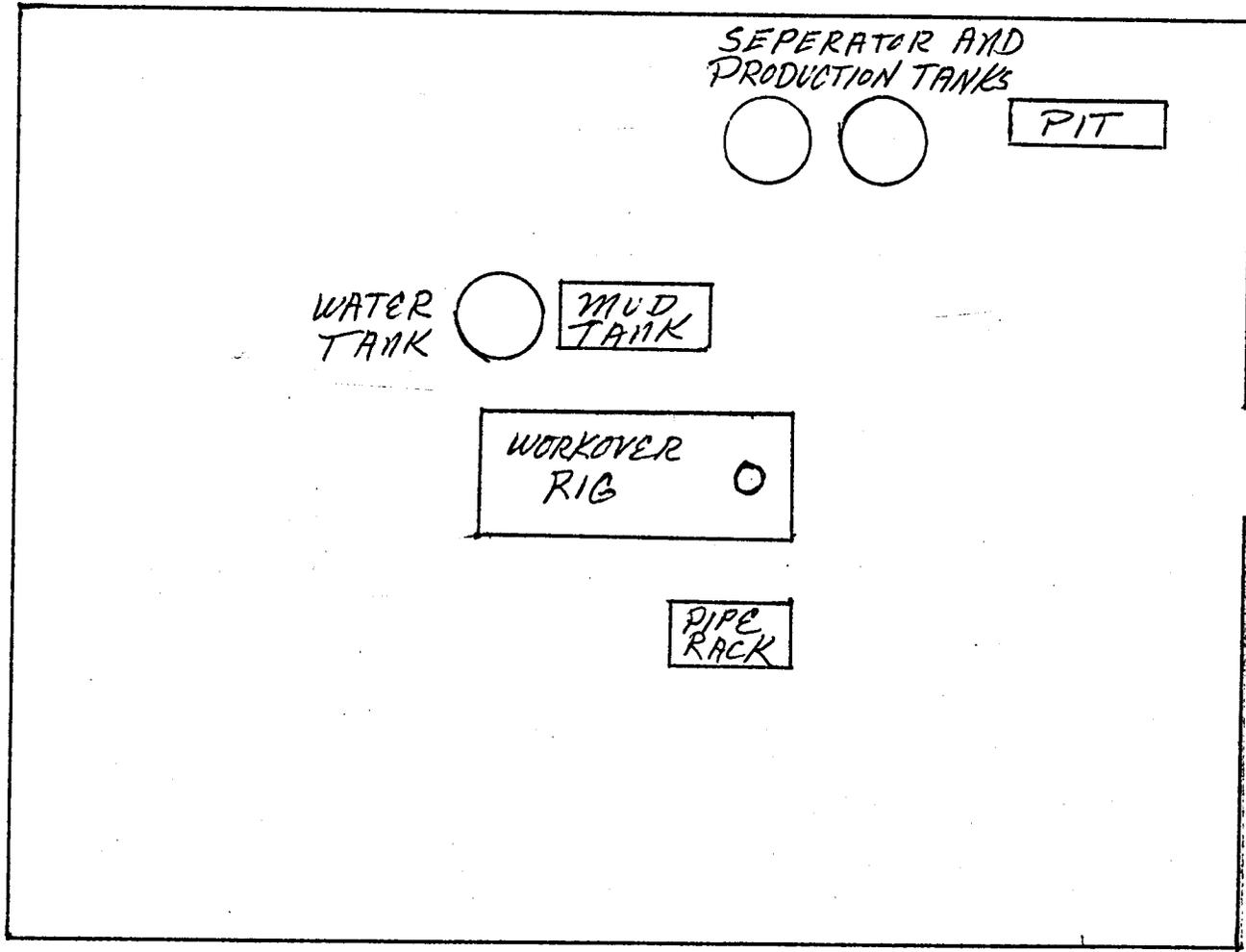
SUBJECT Shell Ute 1-16 D9 - Sec. 16-T4S-R9W - Wasatch County, Utah

Shell drilled this wildcat to 12,264' in 1971, set a 5" liner to 8405' and tested a total of eight zones in the Wasatch section and 16 zones in the Green River section. However, only four zones were tested and acidized separately and the remaining intervals were tested together without being treated. After reviewing the completion record, a brief summary is listed below of the zones tested.

Wasatch 7840-60'	After 5000 gal acid - swab test 6 hours, 30½ BO & 3½ BW. Fluid level 7350'.
Wasatch 7470-90'	After 5000 gal acid - swab test 4 hours, 19 BO & 9 BW. Recovered a total of 103 BF after acid. Acid load 120 bbls.
Green River 5555'	Zone made mud and emulsified oil natural. After 5000 gal acid and after 3 days testing - 3 BFPH for 24 hours, 90% oil. Fluid level steady @ 4800'.
Wasatch and Green River	23 separate zones from 7840 to 5070', including the three zones above. All zones tested. After swabbing nine days, well made 40 BO and 31 BW. No treatment was done except those listed above.
4428-40' and 4462-68'	After 1000 gal acid, swab 8 BFPH, 5% oil 95% wtr.

After reviewing the small scale log, there were about 20 zones in the middle lacustrine series from 7400' to 8540' which have resistivity greater than 20 ohms and could be productive, but which were not tested. A mud weight of 10.3#/gal (gradient of .535) was used to drill this part of the hole. The only recorded kick was from 7840-60'; mud weight required to kill this kick was 10.7#/gal, but after controlling this zone, mud weight was decreased to 10.3#/gal.

N



W

ROAD

E

S

DRILLING WELL PROGNOSIS

WELL NAME UTE NO. 1  
 TYPE WELL EXPLORATION WILDCAT  
 FIELD AREA SLAB CANYON

REVISED 10/28/70

APPROX. LOCATION (SUBJECT TO SURVEY) 2463' FNL and 1518' FEL Sec 16-T 4S-R 9W USM

EST. G. L. ELEVATION 6620' PROJECTED TD 13,000' OBJECTIVE WASATCH

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
17 1/2"	13 3/8"		1 1/2°	Sfc csg to 100'	SAMPLES: 30' from surface to 2,000' 10' from 2,000' to TD  CORES: 500' to be taken as warranted
12 1/4"	9 5/8"			Green River Zone 1 Surface	DST'S: 2 in zone 2 3 in zone 3 5 in Wasatch
	3500			Green River Zone 2 1,300'	DEVIATION CONTROL Dog leg severity less than 1 1/2° per 100' interval State limits
8 3/4"			1°/1000'	Green River Zone 3 2,600'	CEMENT Circulate sfc csg cement
				Wasatch 5,600'	MUD
				Cretaceous 12,000'	<u>Water</u> - As deep as adequate hole cleaning allows.
				TD 13,000'	<u>Gel/chemical</u> - from max water to transition zone  <u>Weighted-Gel/chemical</u> As needed to control pressures (9.4#/gal max. expected)

FDC/DIL/PML/SNP  
 GR/BHC/AC/Cal  
 FDT/TVT  
 2-Man Mud Logging Unit

ORIGINATOR *[Signature]*

DATE 10/28/70

ENGINEERING APPROVAL: *[Signature]*

EXPLOITATION *[Signature]* 11/5/70

MECH. *[Signature]* 10/29/70

OPERATIONS APPROVAL:

*[Signature]*  
 DIV. DRILLING SUPT.

Surface Use Plan for Re-Entry of Ute 1-16D9 Well:

1. Existing Roads (Exhibit "A"):

Equipment and personnel will use US Highway 40 West from Duchesne, Utah approximately 21 miles, thence south, southeast on a country road following Red Creek to the confluence of Strawberry River approximately six miles; thence west along Strawberry River on a county road approximately ten miles into the well location.

2. Planned access Roads:

None.

3. Location of Existing Wells:

Well is approximately 3½ miles southeast of Texaco shut-in gas well M. A. Smith #1 located in the SW¼NE¼ Section 32-T3S-R9W, Wasatch County, Utah.

4. Lateral Roads:

None.

5. Tank Battery and Flow Lines:

Since we are re-entering the well for testing only no tank battery or flow lines will be installed.

6. Water Supply and Location:

Strawberry River approximately 300 feet south of well.

7. Waste Disposal:

The contractor will furnish a chemical toilet. Cuttings, metal, etc., that will not burn will be buried or hauled off of the location.

8. Location of Camps:

No camps will be built.

9. Location of Airstrips:

No airstrips will be built.

10. Location layout.

Only a work-over rig will be utilized.

11. Plans for Restoration of the Surface.

A minimum amount of surface will be disturbed. Only one small pit will be made for refuge. Pit will be filled and all disturbed areas will be ripped and re-seeded.

12. Topography, Vegetation, etc.:

The location is on flat, open land adjacent to the Strawberry River. The land is in grass and utilized as pasture for cattle. The Strawberry is approximately 300 feet south of the location. Both south of the river and north of the location the land rises rather steeply and is relatively dense with cedars.



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 30, 1984

Koch Exploration Co  
1225 17th St. #2540  
Denver Co 80202

RE: Well No. Shell-Ute 1-16D9  
API #43-051-30003  
2463' FSL 1518' FEL  
Sec. 16, T. 4S, R. 9W.  
Wasatch County, Utah

Gentlemen:

While preparing our files for data entry we have found that this office received an application to re-enter the above referenced oil well and was approved for re-entry on May 5, 1976 (see copy enclosed). Since that date, we have received nothing concerning that well. Could you please send me all the information concerning the re-entry of that well ie Sundry Notices and Well Completion Report or let me know what your current intentions are for this well.

Thank you for your prompt attention to the above matter.

Respectfully,

A handwritten signature in cursive script that reads "Claudia Jones".

Claudia Jones  
Well Records Specialist

CJ/cj  
enclosures



February 6, 1984

State of Utah  
Natural Resources  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Attention: Claudia Jones

RE: Well # Shell-Ute 1-16D9  
API #43-051-30003  
2463' FSL, 1518' FEL  
Sec.16-4S-9W - Wasatch County, UT

**RECEIVED**  
FEB 10 1984

**DIVISION OF  
OIL, GAS & MINING**

Please refer to your letter of January 30, 1984, pertaining to the above captioned.

We enclose for your files and information, a copy of the Sundry Notice, submitted June 17, 1976, to the Bureau of Land Management and apparently inadvertantly not submitted to your offices. We have also enclosed a copy of the Drilling Summary. If further information is required, please advise.

Thank you,

  
Orvall L. Schmidt  
Vice President  
Production/Operations

Encl:

/bf

WF

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 43-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-H62-3385

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Ute (Shell)

9. WELL NO.

1-16D9

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 16-4S-9W

12. COUNTY OR PARISH

Wasatch

13. STATE

Utah

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

2. NAME OF OPERATOR

Koch Exploration Co, Division of Koch Industries Inc.

3. ADDRESS OF OPERATOR

P.O. Box 2256, Wichita, Kansas 67201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface

2463' FSL & 1518' FEL NW SE

14. PERMIT NO.

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

KB 6617' GR 6598'

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\* [XX]

SHOOTING OR ACIDIZING [ ]

ABANDONMENT\* [XX]

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.)

The subject well was plugged as instructed by the U.S.G.S.

Plugging commenced 6/4/76 and was completed 6/5/76.

The following procedure was followed:

- The #1 plug - 15 sx fm 7100-6950' - 150'
The #2 plug - 15 sx fm 5200-5050' - 150'
The #3 plug - 30 sx fm 4800-4650' - 150'
The #4 plug - 30 sx fm 4050-3900' - 150'
The #5 plug - 20 sx fm 100' to surface.

RECEIVED FEB 10 1984

DIVISION OF OIL, GAS & MINING

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

SIGNED

[Signature]

TITLE Asst. Operations Manager

DATE June 17, 1976

(This space for Federal or State office use)

APPROVED BY

[Signature]

TITLE

DISTRICT ENGINEER

DATE

Confirm Oral 6/3/76

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

CONDITIONS OF APPROVAL ATTACHED

Oper (2)

SHELL UTE #1-16D9

5-4-76 - Approval has been obtained to re-enter & test well. Will start moving in equipment today.

5-6-76 - Dug out cellar & csg. Hot tapped top of csg, no press. Cut off plate, plan to weld on Series 600 9-5/8 well head today. Cannot see cmt in top of 13-3/8 or 9-5/8 csg, 7" csg full of cmt to very top. Moving in sub structure & mud tanks, will remove derrick from pulling unit today. Load of 2-7/8 tbg on location..

5-7-76 - Pulling unit on location. Will put derrick on today.

5-10-76 - RU serv rig.

5-11-76 - TD 12,264' 7" csg @ 4985' 5" liner fm 4785-8405' Present cmt in 7" csg, original PBD 8359', 400 sx 4424-7840 & 45 sx in top of 7". Rinished RUPU, started drlg out cmt @ 7:30 PM. Drld 50' in 4½ hrs, SDFN.

5-12-76 - Drld 190' of cmt fm 50' to 240' in 16 hrs. Now have 8 3-1/8 DC's in hole & cmt drlg out much faster. NOTE: 45 sx reg cmt should only have filled 230' of 7" csg.

5-13-76 - Drld hard cmt fm 240-400', cmt stringers fm 400-490', clean fm 490 to 4220', cmt stringers fm 4220-4252' & hard cmt fm 4252-4326'. SDFN. Drlg this AM @ 4326'.

5-14-76 - TD 12,264' Drld hard cmt fm 4326-4470'. Tstd perfs 4428-40 & 4462-68' w/1500#, could pump in less than ¼ BPM. Bled off from 1500# to 900# in 1½ min & then stayed at 900#. Drld hard cmt fm 4470-4680'. SDFN.

5-15-76 - Drld hard cmt fm 4680-4785' (top of 5" liner). Pulled 6-1/8" bit, ran 4-1/8" bit, drld hard cmt fm 4785-5070' in 5" liner. Worked crews 24 hrs. Moved in three 200 bbl tanks, hauled 2 loads of 12.9# MgCl wtr from Salt Lake City. Plan to mix w/fresh wtr & lower wt to 10.5#.

5-16-76 - TD 12,264' Drld hard cmt fm 5070-5416' in 8 hrs. SDFN.

5-17-76 - No work done.

5-18-76 - TD 12,264' Drld hard cmt fm 5416 to 6470'. Csg clean to 6904', circ clean, no gas or oil to surf. SDFN.

5-19-76 - TD 12,264' PBD 8366' Circ hole clean from 6904 to 8350', drld up wiper plug & circ out mud w/LCM to 8360'. Drld on metal & cmt from 8360-8366' in 7 hrs. Some of the 6' believed to be tbg make up. Started trip out. Plan to trip out and run pkr to perf today.

5-20-76 - PBD 8350' Trip out w/bit. Trip in w/Baker 5" 15# pkr, displaced fresh wtr w/10.6# MgCl wtr, spotted 30 BFW & 12 bbls diesel in tbg, set pkr 7046' w/15,000# wt. Ran Coor & CL logs from 8350 to 7046' (corr to old shell log). Perf 5" liner 8093-8100, 8208-14, 8233-37, 8255-73 & 8278-90' w/1HPF. No press on tbg. SDFN.

SHELL UTE #1-16D9

5-21-76 - Finish perf zones as/prog. 8208-14, 8233-37, 8255-73, 8278-90'.  
Total 122 holes. No press increase. Clean mud tanks and SDFN.

5-22-76 - Well had 500# tbg press. RUBJ & acidized w/16,000# 15% NE acid. Using 60# BAF/1,000 gals plus 200 ball sealers. Max rate 15.5BPM, min rate 5BPM, avg rate 14 BPM, max treat press 4400#, min treat press 3100#, avg treat press 4100#. ISI 2600#, 5 min 2300#, 10 min 2200# and 15 min 2200#. Had good ball action. Finish treatment @ 12 noon. Total load to recover 454 bbls. Open well up @ 2:30 PM w/1600#. 2:30 PM to 6:00 PM flow 210 BF (acid wtr, load wtr, & 8 BO) after 1st hr. of flowing, oil started showing up. Well dead @ 6:00 PM. Tried to get swab down, 100' down as deep as swab would go. Due to set up oil. SDFN. This AM 500# on tbg. Will bleed off & pump hot water.

5-23-76 - TP 500#, bled off - to zero, could not get swab in hole, pmpd 35 bbls hot wtr down tbg, swbd well 10 hrs, made 38 runs, max depth 7000', FL 0 to 6000'. Rec 140 bbls load wtr & 6 BO. Lack 240 BLW. Last 2 runs approx 40% emulsified oil.

5-24-76 - No work done.

5-25-76 - PBD 8350' Flowed & swbd well 21 hrs. SITP 750#, bled to zero in 15 min. Unable to run swab because of heavy oil. Pmpd in 20 BLW @ 3600#, flowed back 10 BW & died. Still unable to run swab. Pmpd in 35 BLW, made 2 runs w/swab & well started flowing. Flowed approx. 40 BSW & 5 BO in 45 min & died. Could not run swab, pmpd in 35 BLW, swbd well 10 hrs, 30 runs, FL 0-6000', RD 7000', rec. 110 BLW & 36 BO. FL stayed at 6000' last 6 hrs (pkr @ 7046') Still have 130 BLW to rec. Well flows about 5 min after each swab run, oil real dark green color & has very high pour point.

5-26-76 - PBD 8350' NOTE: Corrected Perfs: 7100-08 (were perf, did not reperf), 7182-88, 7432-36, 7500-05, 7511-15, 7581-85, 7642-48 (were perf, did not reperf), 7680-83, 7704-08, 7731-40, 7784-88, 7840-60 (were perf, did not reperf), 7950-53, 8020-24, 8054-59, 8064-66, 8093-8100, 8208-14, 8233-37, 8255-73 & 8278-90' (total of 21 intervals, 142' w/163 holes). Swbd perfs 7100-8290 for 10 hrs, rec 30 BO & 20 BLW. Made 10 runs, max. depth 7000', FL 6000 to 6500'. Lack 110 BLW to rec. Had to pump the swab down the hole each trip w/approx. 1000 to 1500' of hot wtr on top of swab. Well would make head of gas after each swab run & oil was gassy. Pmpd 45 BLW down tbg, rel pkr & trip out. Ran RBP & pkr. Set RBP @ 7238 & pkr swinging @ 3952'. Ran GR & CH logs. Plan to perf Green River today.

5-27-76 - PBD 8350' Moved RBP up to 5631', could not get tools to hold press. Trip out, trip in w/new RBP & pkr. Set RBP @ 5631' & pkr @ 5600', held 2500# OK. Reset pkr @ 5023'. Perf Green River 5172-80, 5312-20, 5348-55, 5420-26, 5450-68, 5516-24, & 5555-76' (7 intervals, 76' w/83 holes). No press incr. on tbg. Acidized w/9000 gal 15% NE w/100#/1000gal, max press 4800#, avg 4000#, max rate 16 BPM, avg 12-1/2 BPM. Had good diverter action. ISIP 1400#, still 1400# after 1-1/2 hrs. Opened well at 10:00 PM w/1400# TP. Flowed 7 hrs & died. Flowed total of 140 BLW w/tr of oil. Started swbg at 5:00 AM. Swbd 1 hr, 3 trips, MD 3500', FL 0-2500' broken, rec. 5 BLW w/tr oil, still blowing acid gas - will not burn. Lack 120 BLW to recover.

**RECEIVED**  
FEB 10 1984

**DIVISION OF  
OIL, GAS & MINING**

SHELL UTE #1-16D9

5-28-76 - PBD 8350' Swbd 10 hrs, made 30 runs, max depth 5000'. FL 2500-4800', rec. 16 BO, 120 BLW & 26 bls fm wtr. WFL 4800' last 2 hr. FL approx 10% oil. Loaded tbg release tools & trip out. Trip in w/tools - dressed for 23# 7" csg. Set BP @ 4278', pkr @ 3985', test csg & tools to 2500#. Held OK. Spot fresh wtr in tbg. Perf 7" csg 4034-44, 4062-65 & 4200-10' W/1HPF (3 intervals 23', 26 holes) w/no press increase. Acidize perf's w/2000 gal 15% reg w/100#BAF/1000 gals, max rate 15 BPM, min 8 BPM, avg 10 BPM, max treat press 2600#, min 1000#, avg 2000#. Did not see any diverter action. ISIP 1000#, 15 min, 200#. Open well @ 4:00 AM. Well on vac. Start swbg. Swab 2 hrs, made 12 runs, max depth 3900', FL 500 to 2000', rec. 72 BLW w/no trace of oil & very little gas. Lack 14 BLW to recover.

6-1-76 - PBD 8350' Swbd perfs 7884-7902' for 4-1/2 hrs, 22 trips, max depth 3900', FL 2800', rec 14 BLW & 110 BSW w/tr oil. Loaded tbg w/wtr, trip out w/pkr & RBP. Ran 50 stands tbg & SDF holidays. No work done 29, 30 & 31. Plan to reacidize Wasatch.

6-2-76 - PBD 8350' Trip in w/RBP & pkr. Set BP @ 8311' and pkr @ 7895'. Acidized perfs 7950-8290', w/10,000 gal 15% NE w/100# BAF/1000 gal. Max rate 14-1/2 BPM, avg 12 BPM, max press 5200#, min 3800#, avg 4800#. ISIP 2400#, 15 min 2300#. Had fair diverter action. Left shut in 1 hr. Moved RBP to 7900' & pkr to 7390'. Acidized perfs 7432-7860' w/10,000 gal 15% NE w/100# BAF/1000 gal. Max rate 19 BPM, avg 15 BPM, max press 5200#, min 3000#, avg 3900# (had pump trouble). ISIP 2000#, 15 min 1900#. No diverter action. Total load to recover 635 bbls. Shut in for 1 hr., reset RBP @ 8311' & pkr @ 7390'. Started swbg @ 9:00 P.M., swbd 9 hrs, 30 runs, MD 7400', FL 0-6000', rec 155 BLW w/tr oil & gas the last hour. Lack 480 BLW to rec. Note correction for 6-1-76 report. Perfs swabbed should have read from 4034-4210, not 7884-7902'.

6-3-76 - PBD 8350' Swbd 14 hrs, made 38 trips, max depth 7400', FL 6000 to 7200' broken, rec 14 BO & 90 BLW. Lack 390 BLW to rec. The FL was at 7200' last 2 hrs. Approx 95% oil last 4 hrs. Shut well in for buildup at 8:00 PM w/swab left at 5000'. TP 250# this AM & FL at 3800'. Swbg this AM.

6-4-76 - PBD 8350' Swbd 4 hrs, made 14 runs, MD 7400', FL 3800 to 7200', rec 25 BO & 10 BLW. Lack 380 BLW to rec. Very little fluid entry last 2 runs. Loaded tbg w/wtr, rel pkr, pulled & laid down RBP, pkr & 45 jts 2-7/8" tbg. Trip in w/open ended tbg to 7100' to start spotting plugs this AM.

6-5-76 - Spot plugs as follows for P & A.

15 sx - 7100 - 6950'

15 sx - 5200-5050'

30 sx - 4800-4650'

30 sx - 4050-3900'

20 sx - 100' - to surf.

Completing tearing down rig this AM. Finished plugging well @ 2:30 AM 6-5-76.

Plan to move pulling unit to C.R. #11. FINAL REPORT

**RECEIVED**  
FEB 10 1984

**DIVISION OF  
OIL, GAS & MINING**