

FILE NOTATIONS

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

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

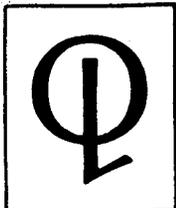
COMPLETION DATA:

Date Well Completed *2-20-79* .....  
DW..... WW..... TA.....  
GW..... OS..... PA.....

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

LOGS FILED

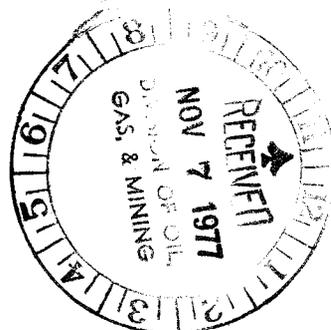
Driller's Log.....  
Electric Logs (No.) .....  
E..... I..... Dual I Lat..... GR-N..... Micro.....  
Sonic GR..... Lat..... MI-L..... Sonic.....



# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

November 4, 1977



*C SW NW*

State of Utah  
Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, UT 84116

Attn: Cleon B. Feight

Gentlemen:

Subject: Application for Permit to Drill UPRR #19-2, SW NW, Section  
19-2N-7E, Summit County, Utah

Enclosed please find three copies of our Application for Permit to  
Drill the captioned well.

Due to immediate availability of a drilling rig, we would like to  
commence operations as soon as possible. In order to expedite mat-  
ters, we are sending this application with approximate survey ele-  
vation and footages, and we are having the survey plat sent directly  
to you.

If there are any questions, please feel free to contact me or Mr.  
A. H. Hurley, Jr. at 303/861-8437.

We sincerely appreciate your cooperation.

Very truly yours,

*R F Reiner*

R. F. Reiner

RFR:ld

Enc.

*ok*  
*R*

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

5. Lease Designation and Serial No.  
Champlin UPRR fee pooled

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

6. If Indian, Allottee or Tribe Name  
N/A  
7. Unit Agreement Name  
N/A  
8. Farm or Lease Name  
UPRR

2. Name of Operator  
American Quasar Petroleum Co. of New Mexico

9. Well No.  
19-2

3. Address of Operator  
707 United Bank Tower, 1700 Broadway, Denver, Colorado 80290

10. Field and Pool, or Wildcat  
Elkhorn

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)  
At surface  
660' FWL, 1980' FNL ✓ ok  
At proposed prod. zone  
Same

11. Sec., T., R., M., or Blk. and Survey or Area  
19-2N-7E ✓

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

12. County or Parrish  
Summit  
13. State  
Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)  
N/A (pooled) Champlin UPRR fee tract pooled

17. No. of acres assigned to this well  
80

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
approx 2640'

19. Proposed depth  
11,100'  
20. Rotary or cable tools  
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
Approx 6880' GL

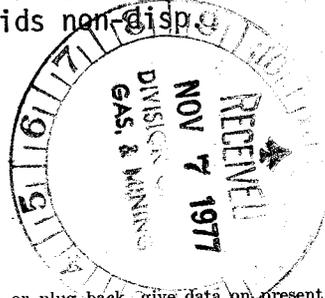
22. Approx. date work will start\*  
November 22, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2"	13 3/8"	54#	60'	Circulated to surface
12 1/4"	9 5/8"	36#	2000'	Circulated to surface ok
8 3/4"	7"	23 & 26#	TD	To be calculated from caliper log

Proposed operations:

Drill 12 1/4" hole to 2000'+ w/native mud.  
Run and cement 9 5/8" surface casing.  
Nipple up 10" 5000 psi wp double gate hydraulic BOP & Hydril. Pressure test stack.  
Drill 8 3/4" hole to total depth with low solids non-disp.  
Run BHC sonic-GR-Cal, DIL, CNL - FDC logs.  
Run production casing if required.



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.

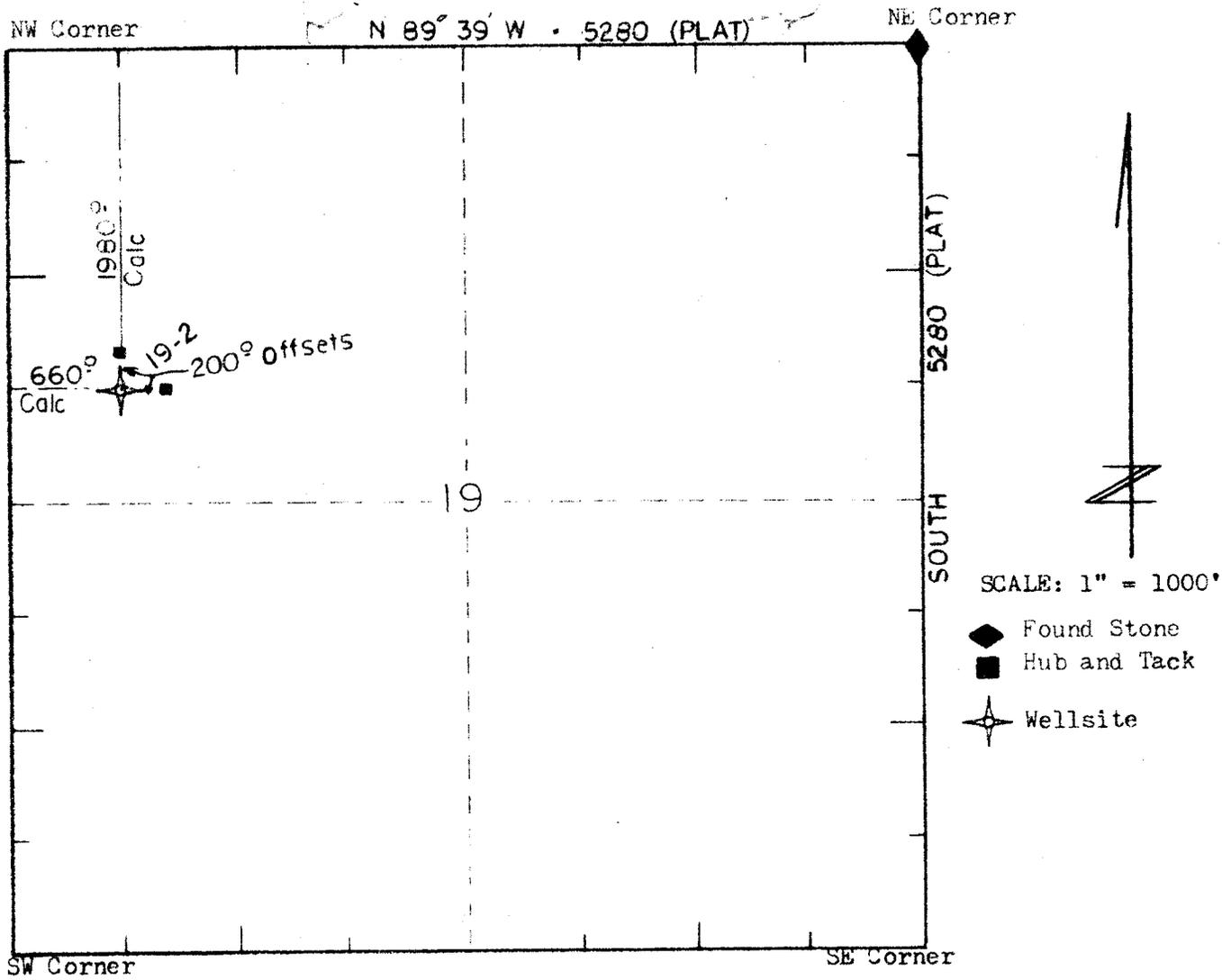
24. Signed R. F. Revue Title Division Engineer Date 11-4-77

(This space for Federal or State office use)

Permit No. .... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:



I, Wallace C. France of Salt Lake City, Utah, certify in accordance with a request from American Quasar that I made a survey on November 5, 1977 for the location of a wellsite No. 19-2 located in the SW $\frac{1}{4}$  NW $\frac{1}{4}$  of Section 19, Township 2 N, Range 7 E Salt Lake Base and Meridian.

11-6-77  
Date

Wallace C. France  
Wallace C. France L.S. No. 4096

**FRANCE LAND SURVEYING**  
7227 South 1540 East Salt Lake City, Utah  
801) 943-1442

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Nov. 8 -  
Operator: American Gasar Pet. Co.  
Well No: UPLA 19-2  
Location: Sec. 19 T. 2N R. 7E County: Summit

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

API NUMBER: 43-043-30068

CHECKED BY:  
Administrative Assistant [Signature]  
Remarks:  
Petroleum Engineer [Signature]  
Remarks:  
Director \_\_\_\_\_  
Remarks:

INCLUDE WITHIN APPROVAL LETTER:  
Bond Required:  Survey Plat Required:   
Order No. 11026  Surface Casing Change   
to \_\_\_\_\_

Rule C-3(e), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved

November 8, 1977

American Quasar Petroleum Co.  
707 United Bank Tower  
1700 Broadway Denver  
Denver, Colorado 80290

Re: Well No. UPRR 19-2  
Sec. 19, T. 2 N, R. 7 E,  
Summit County, Utah

Gentlemen:

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

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

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

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-043-30068.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

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

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

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
March, 19 78

Agent's Address 707 United Bank Center  
1700 Broadway  
Denver, CO 80290  
 Phone No. 303/861-8437

Company American Quasar Petro. Co.  
 Signed A. S. Hurley  
 Title Division Operations Manager

P

Sec. and % of ¼	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)
UPRR Sec. 19 SW NW	2N	7E	19-2							Drlg @ 8381'
										Gas Sold _____ Flared/Vented _____ Used on/off Lease _____

NOTE: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
 \_\_\_\_\_ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

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

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

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

P

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
April, 19 78

Agent's Address 707 United Bank Center  
1700 Broadway  
Denver, CO 80290  
 Phone No. 303/861-8437

Company American Quasar Petro. Co.  
 Signed A. H. Hurley, Jr.  
 Title Division Operations Manager

Sec. and ¼ of ¼	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrals of Water (if none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
UPRR Sec. 19 SW NW	2N	7E	19-2							Dr1g @ 10,420'
										Gas Sold _____ Flared/Vented _____ Used on/off Lease _____

NOTE: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
 \_\_\_\_\_ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

1588 WEST NORTH TEMPLE  
SALT LAKE CITY, UTAH 84116  
328-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
June, 1978

Agent's Address 707 United Bank Tower  
1700 Broadway  
Denver, CO 80290  
Phone No. (303) 861-8437

Company American Quasar Petroleum Co. of New Mexico  
Signed R. J. Reinhardt  
Title Div. Prod. Superintendent

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 and result of test for gasoline content of gas)
UPRR Sec. 19 SW NW	1N	7E	19-2							TD 11,419' PBD 11,370' Ran logs Ran & cmtd 7" csg CS 11,419' Rltd drlg rig 6-10-78 MI comp rig 6-22-78 Pfd 10,744-74' (Twin Creek) Accdzd pfs 10,744-74' Swabbing
										Gas Sold _____ Flared/Vented _____ Used on/off Lease _____

NOTE: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
\_\_\_\_\_ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

UPRR #19-2 6/8/78 124 days - TD 11,419'. PBSD 11,370'.  
(11,000' TC-Nugget - TIH w/bit & csg. scraper. Ran 7" csg. as follows from develop)

Summit Co., Utah	60 jts 32# S-95 LT&C	2,634.00'
Elkhorn Prospect	68 jts 23# S-95 LT&C	2,737.00'
	122 jts 23# N-80 LT&C	5,000.00'
	26 jts 23# S-95 LT&C	1,076.00'
Total -	276 jts -	11,447.00'

Ran & set csg. @ 11,419'; float collar @ 11,370'.  
Displaced mud w/450 bbls. 3% KCl wtr, 3#/bbl. gel & 4½ gal/100 bbl. Adomall. Cemented w/750 sx 50-50 Pozmix w/4% gel, salt-saturated, 5#/sk gilsonite, ¼#/sk flocele & 3/4% CFR<sub>2</sub>. Tailed in w/250 sx 50-50 Pozmix w/10% salt, 2% gel, 1#/sk gilsonite, ¼#/sk flocele, 1% CFR<sub>2</sub> & .2% HR<sub>5</sub>. Displaced w/439 bbl. wtr. @ 6 bpm. Bumped plug w/2700#. Float held. PD @ 5:15 PM on 6/7/78. Had fair returns while pumping cmt. to shoe & good returns on rest of job. Now TIH w/bit & csg. scraper.

UPRR #19-2 6/9/78 125 days - TD 11,419'; PBSD 11,370'.  
(11,000' TC-Nugget develop) WOC, prep to run bond log. PU 2-7/8" DP, bit & csg. scraper & TIH. Displaced w/formation wtr. Summit Co., Utah RU Welex to run bond log. Cmt. apparently had not set. Now WOC, prep to rerun bond log this afternoon. Elkhorn Prospect  
Total cost to date:

UPRR #19-2 6/10/78 126 days - TD 11,419'; PBSD 11,370'.  
(11,000' TC-Nugget develop) Running bond log w/Welex. Ran bond log 11,352-7600'--- no bond. WOC. Ran bond log w/Petro-Log 11,350-8400'--- had good bond to 8400'. Now running bond log. Summit Co., Utah 6/11 127 days - TD 11,419'; PBSD 11,370'. RDRT. Elkhorn Prosp. Finished running bond log. Cement top: 7100'. Ran 2-7/8" DP in hole. LD DP. ND BOP's. Released rtg 8:00 PM 6/10/78. (Drop from Drilling Report.)

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prospect

5/31/78 116 days - Drlg. in Nugget ss @ 11,257'.  
Drl'd. 20' in 5 hrs. MW 10.4; vis 101; WL 6.0; pH 10.5.  
Finished TIH w/DST #3 (Lynes) - 11,160-11,237' (Nugget)  
w/no WC. TO 10 min--w/slight blow; SI 60 min;  
TO 60 min--w/slight blow; SI 120 min. DST #3 was  
a misrun--tool apparently plugged above recorders.  
Rec. 598' heavy drlg. mud--no pressures recorded on charts. Reran bit #32  
(8-3/4" Hughes J55 - SN KZ607) @ 11,237'. Bit has drld. total of 66' in 17 hrs.  
Carrying 2 units BGG. Drlg. wt 35,000#; RPM 52.

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prospect

6/1/78 117 days - Drlg. in Nugget ss @ 11,305'.  
Drl'd. 48' in 10½ hrs. MW 10.5; vis 108; WL 5.3;  
pH 10.5. Pulled bit #RR32 @ 11,302'. Bit drld.  
111' in 27 hrs. Dull grade 7-2-1/8". Ran bit #33  
(8-3/4" Hughes J77 - SNJZ707). Bit has drld. 3'  
in ½ hr. Carrying 2 units BGG. Drlg. wt 35,000#;  
RPM 52.

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prospect

6/2/78 118 days - Drlg. in Nugget ss @ 11,390'.  
Drl'd. 85' in 23¼ hrs. MW 10.5; vis 130; WL 6.2;  
pH 9.5. Bit #33 has drld. 88' in 24¼ hrs.  
Lost 150 bbls. mud in last 24 hrs. Drlg. wt  
30,000#; RPM 50.  
Total cost to date:

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prosp.

6/3/78 119 days - TD 11,419' (corrected by SLM from  
11,405'). Drl'd. 15' in 4¼ hrs. POH to run logs.  
MW 10.3; vis 125; WL 6.0; pH 11.5. Drl'd. to 11,419'.  
Made round trip. Circ. & cond. hole for logs. Now POH.

6/4 120 days - TD 11,419'. TIH to cond. for logs.  
MW 10.3; vis 125; WL 6.0; pH 11.5. Finished POH.  
Ran DLL w/GR 11,398'-surf; BHC Sonic 11,412-1900'; & CNFD 11,412-9490'.  
Ran BH Geometric Caliper--log stopped @ 9010'. Now TIH to cond. for logs.

6/5 121 days - TD 11,419'. Running logs.  
MW 10.1; vis 103; WL 6.4; pH 11.0. Finished TIH & cond. hole. POH.  
Ran BH Geometric Caliper 9800-8700'. Now running Dipmeter.

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prosp.

6/6/78 122 days - TD 11,419'. LD DP.  
MW 10.3; vis 118; WL 6.0; pH 11.0. Finished logging.  
Ran Dipmeter 11,410-1910' & Welex Frac Finder 11,404-  
9500'. TIH w/bit #RR33 (8-3/4" Hughes J77 - SN JZ707).  
Circ. & cond. hole. Now LD DP prep to run 7" csg.

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prosp.

6/7/78 123 days - TD 11,419'. Circ. w/7" csg. @ 8936'.  
MW 10.2; vis 114; WL 6.2; pH 10.8. Finished LD DP.  
RU to run 7" csg. Ran csg. to 9386'; hit bridge. Could  
not circ. Pulled up to 8936'. Now circulating.

UPRR #19-2  
(11,000' TC-Nugget -  
devel.)  
Summit Co., Utah  
Elkhorn Prospect

5/24/78 109 days - Drlg. in Twin Crk ls @ 10,763'.  
Drl'd. 128' in 23½ hrs. MW 10.4; vis 120; WL 5.0; pH 11.0.  
Bit #RR31 has drld. 323' in 62½ hrs. Drlg. wt 30,000#;  
RPM 58.

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prospect

5/25/78 110 days - TD 10,809'. Drl'd. 46' of  
Twin Crk ls in 6¼ hrs. TIH w/DST #2.  
MW 10.4; vis 100; WL 5.4; pH 11.0. Survey: 2¼°  
@ 10,801'. Pulled bit #RR31 @ 10,809'. Bit drld.  
369' in 68-3/4 hrs. Dull grade 4-2-1/16". Lost 100  
bbls. mud while drlg. @ 10,809'. Now TIH w/DST #2.

UPRR #19-2  
(11,000' TC-Nugget -  
develop.)  
Summit Co., Utah  
Elkhorn Prospect

5/26/78 111 days - Drlg. in Twin Crk ls @ 10,835'.  
Drl'd. 44' in 7¼ hrs. MW 10.4; vis 85; WL 5.8;  
pH 10.8; LCM 10%. Finished TIH w/DST #2 -  
10,592-10,791' (corr. depth) w/no WC. TO 5 min--  
w/wk blow, increasing to fair in 5 min; rotated thru  
ISI into 2nd open; TO 60 min--w/good blow; SI 90 min.  
Pulled to rec. 1080' total fluid, consisting of 1000' O&G-cut drlg. mud + 80'  
WC mud. Bomb depth 10,782'. IHP 6069; IFP 533/533; FFP 693/693; FSIP  
4416; FHP 5882; BHT 208° F. Smplr. cap: 2100 cc's; rec. @ 1200 psi, 2½ cuft  
gas + 600 cc's oil (40 grav. @ 70°). Mud filtrate: 108 ppm nit's; 60,000 ppm chl's.  
WC drlg. mud smpl: 102 ppm nit's; 70,000 ppm chl's. Reran bit #31 (8-3/4"  
Smith F3 - SN 862PE) @ 10,791'. Bit has drld. total of 395' in 80 hrs.  
Ran SLM on trip out for DST #2--made 18' correction uphole-10,809' to 10,791'.  
Carrying 20 units BGG. Drlg. wt 30,000#; RPM 50.

Total cost to date:

UPRR #19-2  
(11,000' TC-Nugget -  
develop)  
Summit Co., Utah  
Elkhorn Prosp.

5/27/78 112 days - Drlg. in Twin Crk ls @ 10,975'.  
Drl'd. 140' in 22-3/4 hrs. MW 10.5; vis 104; WL 5.9;  
pH 11.0. Bit #RR31 has drld. 535' in 98¼ hrs.  
Rich sample top: 10,770'. Carrying 6-7 units BGG.  
Drlg. wt 30,000#; RPM 72.

5/28 113 days - Drlg. in Twin Crk ls @ 11,155'.  
Drl'd. 180' in 23¼ hrs. MW 10.2; vis 128; WL 5.9; pH 11.0.  
Bit #RR31 has drld. 715' in 121½ hrs. Lost 240 bbls. drlg. mud @ 11,100'.  
Drlg. wt 30,000#; RPM 72.

5/29 114 days - Drlg. in sd & ls @ 11,202'. Drl'd. 47'  
in 10½ hrs. MW 10.1; vis 107; WL 8.5; pH 11.0. Survey: 4½° @ 11,191'. Pulled  
bit #RR31 @ 11,191'. Bit drld. 751' in 128½ hrs. Dull grade 6-4-1/8". Ran bit  
#32 (8-3/4" Hughes J55 - SN KZ607). Bit has drld. 11' in 3½ hrs. Carrying 6 units  
BGG. Drlg. wt 30,000#; RPM 72.

5/30 115 days - TIH w/DST #3 @ 11,237'. Drl'd. 35'  
of Nugget ss in 8½ hrs. MW 10.4; vis 127; WL 5.2; pH 11.0. Pulled bit #32 for DST  
@ 11,237'. Bit drld. 46' in 12 hrs. Dull grade 2-2-1. Lost 60 bbls. drlg. mud  
while drlg. @ 11,232'. Nugget sample top: 11,156'. Now TIH w/DST #3 to test  
11,160-11,237'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/16/78 101 days - TD 10,420'. Working fish.  
MW 10.5; vis 152; WL 3.8; pH 11.5. Washed over  
9485-9562'. POH. PU 6 DC's, bumper sub & jars.  
TIH. Engaged fish. Knocked fish loose. Have now  
worked 3 jts out of hole.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/17/78 102 days - TD 10,420'. Washing & reaming @ 10,075'.  
MW 10.5; vis 125; WL 4.0; pH 11.8. Survey:  $3\frac{1}{2}^{\circ}$  @ 10,420'.  
Worked fish loose. POH. Dull grade bit #29: 4-4-1/8".  
LD fishing string. Magnafluxed BHA. Changed out jars  
& shock sub. PU keyseat wiper & bit #30 (8-3/4" Hughes OWWJ - SN EH479).  
TIH to 9800'. Encountered tight hole. Now washing & reaming @ 10,075'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/18/78 103 days - TD 10,420'. Repairing rotary clutch.  
MW 10.4; vis 120; WL 4.0; pH 11.8. Washed & reamed  
10,075-10,420'. Rotary clutch broke. Pulled 3 stands;  
circulated. Now repairing rotary clutch.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/19/78 104 days - Drlg in Twin Creek ls @ 10,428'. Drld 8' in 2 hrs.  
MW 10.5, vis 105, WL 4.1, pH 11.6. Fin repairing rotary clutch.  
Washed back to btm. Made connection. Broke brake band. Set string  
on btm. Repaired brakes. Worked drill string loose. Now drlg @  
10,428'. Drlg wt-25,000#; RPM-50.  
Total Cost to Date

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prosp.

5/20/78 105 days - Drlg. in Twin Crk ls @ 10,478'.  
Drld. 50' in 13 hrs. MW 10.5; vis 100; WL 4.0; pH 11.5.  
Survey:  $4\frac{1}{4}^{\circ}$  @ 10,440'. Pulled bit #30 @ 10,440'. Bit  
drld. 20' in  $6\frac{1}{2}$  hrs. Dull grade 3-2-I. Ran bit #31  
(8-3/4" Smith F3 - SN 816PE). Bit has drld. 38' in 13 hrs. Carrying 2 units BGG.  
Drlg. wt 30,000#; RPM 60.

5/21 106 days - Circ. & cond. hole @ 10,595' for  
DST #1. Drld. 117' of Twin Crk ls in  $18\frac{1}{2}$  hrs. MW 10.4; vis 138; WL 5.0; pH 11.5.  
Bit #31 has drld. 155' in  $31\frac{1}{4}$  hrs. Hit fractures--lost circ. @ 10,589' (approx.  
300 bbls.). Mixed LCM. Regained circ. Now circ. & cond. hole for DST #1.

5/22 107 days - TD 10,595'. Tripping out w/DST #1.  
MW 10.4; vis 126; WL 4.9; pH 11.5. Survey:  $3\frac{1}{2}^{\circ}$  @ 10,595'. Pulled bit #31  
@ 10,595' for DST #1. Bit drld. 155' in  $31-3/4$  hrs. Dull grade 2-2-I. TIH  
w/DST #1 - 10,380-10,595'. TO 60 min--w/wk blow, increasing to good blow in  
5 min. & remaining constant thruout open period; SI 90 min. Now pulling DST #1.

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Summit Co., Utah  
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5/23/78 108 days - Drlg. in Twin Crk ls @ 10,635'.  
Drld. 40' in  $7\frac{1}{2}$  hrs. MW 10.5; vis 125; WL 5.0; pH 11.5.  
Finished running DST #1 (Lynes) - 10,380-10,595' -  
w/no WC. Pulled to rec. 1980' fluid--7% oil, 60% gas  
& 33% drlg. mud. Bomb depth 10,365'. (No BHT.) IHP 6226; IFP 1875/2101;  
FSIP 4743; FHP 5928. Smplr. cap: 2100 cc's; sample chamber empty.  
Ran bit #RR31 (8-3/4" Smith F3 - SN 816PE) @ 10,595'. Bit has drld. total  
of 195' in  $39\frac{1}{4}$  hrs. Drlg. wt 30,000#; RPM 55.

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Summit Co., Utah  
Elkhorn Prospect

5/6/78 91 days - TD 10,420'. POH w/overshot.  
MW 10.2; vis 128; WL 5.6; pH 9.5. Attempted to back  
off @ 9265'--w/no success. POH. TIH w/washover shoe #8.  
Washed 9160-9280'. POH. PU 8-1/8" overshot dressed  
w/6-1/8" grapple. TIH. Could not engage fish. Now POH.

5/7 92 days - TD 10,420'. TIH w/washpipe.  
MW 10.2; vis 123; WL 5.6; pH 9.0. Finished POH w/overshot. Redressed. TIH.  
Engaged fish. Ran freepoint. Found fish stuck @ 9170'. Disengaged overshot.  
POH. Now TIH w/washpipe.

5/8 93 days - TD 10,420'. Washing over @ 9180'.  
MW 10.4; vis 152; WL 5.7; pH 10.5. Finished TIH w/washover shoe #9. Washed  
160' to top of fish @ 9160'. Could not get over fish. POH. PU & TIH w/washover  
shoe #10 (scallop design). Could not get over fish. POH. PU & TIH w/washover  
shoe #11 (cutlip design). Worked over top of fish. Now washing over @ 9180'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/9/78 94 days - TD 10,420'. Backing off DP @ 9223'.  
MW 10.4; vis 149; WL 5.2; pH 9.7. Washed over fish  
9160-9250'. POH. PU bumper sub, jars & screw-in sub.  
TIH. Backed off 2 jts DP @ 9223'. Now prep to POH.

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Summit Co., Utah  
Elkhorn Prospect

5/10/78 95 days - TD 10,420'. Washing over DP @ 9282'.  
MW 10.4; vis 150; WL 5.2; pH 9.7. Rec. 2 jts 4 1/2" DP.  
TIH w/washover shoe #11 & 5 jts washpipe. Washed over  
9250-9262'. POH. Shoe flared. TIH w/washover shoe #12  
(Waverly bottom) & 5 jts washpipe. Washed over 9262-9282'. Now washing over  
@ 9282'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/11/78 96 days - TD 10,420'. Tripping out w/3 jts DP.  
MW 10.4; vis 137; WL 5.2; pH 11.0. Washed over  
9282-9342'. POH. TIH w/bumper sub, jars & screw-in  
sub. Engaged fish @ 9223'. Backed off 3 jts DP @ 9318'.  
Now POH.

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Summit Co., Utah  
Elkhorn Prospect

5/12/78 97 days - TD 10,420'. Washing over @ 9394'.  
POH w/3 jts DP. TIH w/washover shoe #13 & 4 jts  
washpipe. Washed over 9342-9394'. Now washing  
over @ 9394'.

Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/13/78 98 days - TD 10,420'. Washing over @ 9420'.  
MW 10.5; vis 128; WL 4.8; pH 10.5. Washed over to 9394'.  
POH. TIH. Screwed into fish @ 9318'. Backed off 2 jts DP  
@ 9381'. POH. Rec. 2 jts. TIH w/washover pipe @ 9394'.  
Now washing over @ 9420'.

5/14 99 days - TD 10,420'. POH w/2 jts DP.  
MW 10.5; vis 145; WL 4.0; pH 11.5. Washed over 9420-9465'. Washpipe began  
torqueing badly. POH. TIH. Engaged fish @ 9381'. Backed off @ 9444'. Now  
POH w/2 jts DP.

5/15 100 days - TD 10,420'. Washing over @ 9485'.  
MW 10.5; vis 120; WL 4.6; pH 12.0. Finished POH. Rec. 2 jts DP. TIH w/bit.  
Tagged top of fish @ 9444'. Circ. & cond. hole & mud. POH. PU washover shoe  
#15 & 4 jts washpipe. TIH. Washed over 9444-9485'. Now washing over @ 9485'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/29/78 84 days - TD 10,420'. Circ. & cond. hole @ 8969'.  
MW 9.9; vis 102; WL 9.1; pH 10.8. Finished circ. &  
cond. mud. POH. PU screw-in sub, bumper sub, jars &  
6 - 6-3/4" DC's. TIH. Screwed into fish. Perf. DP.

Unable to circ. Ran freepoint. Backed off @ 8969'. Now circ. & cond. mud @ 8969'.  
4/30 85 days - TD 10,420'. Washing over fish @ 8971'.

MW 9.9; vis 74; WL 9.8; pH 10.5. Finished circ. & cond. hole. POH. Did not  
rec. fish. PU 8-1/8" overshot dressed w/6-1/8" grapples. TIH. Engaged fish.  
POH. Rec. 3 jts DP. Top of fish: 8969'. PU & TIH w/4 jts 8-3/8" washpipe.  
Now washing over fish @ 8971'.

5/1 86 days - TD 10,420'. Washing over fish @ 9040'.  
MW 10.1; vis 71; WL 9.7; pH 10.8. POH w/washpipe & shoe #1. Left shoe in hole.  
TIH w/shoe #2. POH. TIH w/shoe #3. Now washing over @ 9040'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/2/78 87 days - TD 10,420'. TIH w/overshot.  
MW 10.0; vis 104; WL 6.0; pH 10.5. Washed over w/shoe  
#3 9040-9042'. POH. Washover shoe worn out. Ran  
washover shoe #4 @ 9042'. Pulled shoe #4 @ 9092'.

Shoe made 50' in 8 hrs. Have now washed over 121'. Now TIH w/overshot to  
engage fish--will attempt to back off top 3 jts of DP.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/3/78 88 days - TD 10,420'. POH w/washpipe.  
MW 10.0; vis 98; WL 5.8; pH 10.5. Finished TIH w/overshot.  
to 8969'. Engaged fish. RU Petro-Log. Found pipe free  
to 9088'. Backed off 3 jts DP to 9065'. POH. TIH w/washpipe.

Washed over 9088-9100'. Made connection--could not get back over fish w/washpipe.  
Now POH, prep to PU overshot & back off top jt of DP.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/4/78 89 days - TD 10,420'. TIH w/8-1/8" overshot.  
MW 10.0; vis 122; WL 5.2; pH 11.0. PU 8-1/8" overshot  
dressed w/6-1/8" grapple. TIH. Went over fish @ 9065'.

Could not engage. POH. PU washover shoe #6 & 4 jts  
8-3/8" washpipe. TIH. Washed over 9100-9185'. POH. PU 8-1/8" Bowen  
overshot dressed w/5-7/8" grapple. Now TIH prep to back off top 3 jts DP.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

5/5/78 90 days - TD 10,420'. Running freepoint.  
MW 10.0; vis 152; WL 5.4; pH 11.0. Finished TIH  
w/8-1/8" overshot. Engaged fish. Backed off 3 jts DP  
to 9160'. POH. LD fish. TIH w/washover shoe #7 &

4 jts washpipe. Washed over 9185-9280'. POH. PU & TIH w/Bowen 8-1/8"  
overshot dressed w/6-1/8" grapple. Engaged fish @ 9160'. Ran freepoint.  
Now prep to back off @ 9265'. Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/20/78 75 days - TD 9967'. Drld. 62' of Twin Crk ls in 14 hrs. POH, working tight hole. MW 10.3; vis 52; WL 8.6; pH 10.9. Finished pulling bit #RR27 @ 9905'. Dull grade 4-4-1/8". Ran bit #28 (8-3/4" Smith F3 - SN 667PD). Now pulling bit #28 @ 9967' due to extreme torque conditions; working tight hole @ 9583'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/21/78 76 days - Drlg in Twin Creek formation @ 10,031'. Drld 64' in 14 hrs. MW 10.3, vis 52, WL 8.9, pH 11.0. Survey: 1 1/2° @ 9967'. Pulled bit #28 @ 9967'. Bit drld 62' in 14 hrs. Dull grade 1-8-1. Ran bit #29 (8 3/4" Smith F-3 - SN 5091V) @ 9967'. Bit has drld 64' in 14 hrs. Worked drill string thru tight spot. POil. Found hole in DP. Carrying 1 unit BGG. Drlg wt-36,000#; RPM-50.

Total Cost to Date

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/22/78 77 days - Drlg. in Twin Crk ls @ 10,125'. Drld. 94' in 22-3/4 hrs. MW 10.3; vis 55; WL 8.8; pH 11.0. Survey: 1-3/4° @ 10,072'. Bit #29 has drld. 158' in 36-3/4 hrs. Drlg. wt 34,000#; RPM 50.

4/23 78 days - Drlg. in Twin Crk ls @ 10,233'. Drld. 108' in 22 1/2 hrs. MW 10.2; vis 60; WL 9.0; pH 10.5. Bit #29 has drld. 266' in 59 1/4 hrs. Had drlg. break 10,141-10,145'--no gas increase. Drlg. wt 35,000#; RPM 50.

4/24 79 days - Drlg. in Twin Crk ls @ 10,327'. Drld. 94' in 23 1/4 hrs. MW 10.3; vis 58; WL 8.8; pH 11.2. Bit #29 has drld. 360' in 82 1/2 hrs. Carrying 1 unit BGG. Drlg. wt 36,000#; RPM 50.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/25/78 80 days - TD 10,420'. Drld. 93' of Twin Crk ls in 18 hrs. Working stuck pipe. MW 10.2; vis 59; WL 9.1; pH 11.0. Pulled bit #29 @ 10,420'. Bit drld. 453' in 100 1/2 hrs. While pulling bit, encountered tight hole conditions @ 10,026'; stuck drill string while working thru tight spot. Now working stuck pipe.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/26/78 81 days - TD 10,420'. Working stuck pipe. MW 10.2; vis 95; WL 9.3; pH 10.8. Circ. & cond. mud. Raised visc. Spotted 100 bbls. diesel w/110 gals. pipe lax. Now working pipe & soaking w/oil.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/27/78 82 days - TD 10,420'. Working stuck drill string w/spotted oil in place. MW 10.1; vis 95; WL 9.0; pH 10.9. Worked stuck pipe. Ran freepoint. Found pipe stuck @ 9366'. Moved oil up hole. Now soaking & working stuck pipe.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/28/78 83 days - TD 10,420'. Circ. open-ended @ 8874'. MW 10.1; vis 95; WL 9.0; pH 10.8. Attempted to break circ. Pressured up to 2200# w/rig pump. RU Halliburton. Pumped 50 bbls. @ 2500 psi--no returns. Ran freepoint--free to 8930'. Backed off @ 8874'. Now circ. on top of fish open-ended @ 8874'.

Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/11/78 66 days - Drlg. in Preuss formation @ 8950'.  
Drld. 99' in 2¼ hrs. MW 9.1; vis 40; WL 7.8; pH 11.0.  
Survey: 2½° @ 8946'. Bit #26 has drld. 325' in 7¼ hrs.  
Drlg. wt 28,000#; RPM 52.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/12/78 67 days - Tripping out @ 9142'. Drld. 192'  
of sh & salt in 2¼ hrs. MW 9.0; vis 42; WL 10.8; pH 10.0.  
Survey: 2-¾° @ 9073'. Now pulling bit #26 @ 9142'.  
Bit drld. 517' in 9½ hrs. Salt sample top: 8973'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/13/78 68 days - Drlg. in salt @ 9362'. Drld. 220'  
in 13-¾ hrs. MW 9.2; vis 49; WL 8.6; pH 11.0.  
Survey: 3½° @ 9292'. Pulled bit #26 @ 9142'. Bit drld.  
517' in 9½ hrs. Dull grade 5-4-1/8". Ran bit #27  
(8-¾" Smith F3 - SN 534NK). Bit has drld. 220' in 13-¾ hrs. Carrying  
1½ units BGG. Drlg. wt 25,000#; RPM 52.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/14/78 69 days - Drlg. in brn sltstn @ 9564'. Drld. 202'  
in 22 hrs. MW 9.6; vis 40; WL 9.1; pH 10.5.  
Survey: 3° @ 9480'. Bit #27 has drld. 422' in 35-¾ hrs.  
Base of salt: 9542'. Drlg. wt 15,000#; RPM 52.  
Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/15/78 70 days - Drlg. in Twin Crk ls @ 9670'. Drld. 106'  
in 23 hrs. MW 9.7; vis 39; WL 11.7; pH 10.4. Survey:  
2½° @ 9606'. Bit #27 has drld. 528' in 58-¾ hrs.  
Twin Crk sample top: 9600'. Drlg. wt 20,000#; RPM 52.

4/16 71 days - Drlg. in Twin Crk ls @ 9785'. Drld. 115'  
in 22 hrs. MW 9.8; vis 42; WL 9.6; pH 10.8. Survey: 2° @ 9701'. Bit #27 has  
drld. 643' in 80-¾ hrs. Drlg. wt 22,000#; RPM 78.

4/17 72 days - TD 9816'. Drld. 31' of Twin Crk ls in  
7-¾ hrs. Mixing mud & circ. & cond. hole @ 2800'. MW 9.8; vis 42; WL 9.9;  
pH 11.0. Survey: 1-¾° @ 9796'. Encountered extreme torque conditions while  
drlg. @ 9816'. POH. Ck'd bit & BHA. While TIH w/bit #27, hit tight spot @ 2800'--  
stuck drill string. Worked drill string loose. Now circ. & cond. hole @ 2800'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/18/78 73 days - Drlg. in Twin Crk @ 9834'. Drld. 18'  
in 4½ hrs. MW 10.0; vis 48; WL 8.9; pH 11.0.  
Circ. & cond. hole @ 2800'. Washed & reamed 2800-9816'--  
extremely tight hole cond's. Now drlg. @ 9834' w/bit  
#RR27. Bit has drld. total of 692' in 93 hrs. Drlg. wt 26-30,000#; RPM 52-78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/19/78 74 days - Tripping out w/bit #RR27 @ 9905'.  
Drld. 71' of Twin Crk ls in 20-¾ hrs. MW 9.3; vis 51;  
WL 9.2; pH 10.6. Now pulling bit #RR27 @ 9905'. Bit drld.  
total of 863' in 113-¾ hrs.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/1/78 56 days - TD 8381'. POH w/mill. MW 9.0, vis 42, WL 10.0, pH 10.0. Fin pulling bit #22. Dull grade 5-2-1. Lost skirt key seat wiper on TOH w/bit. Ran mill #3 (8 1/2" Tri State FB mill) @ 8381'. Pulled mill #3 @ 8381'. Mill was completely worn out.

Ran mill #4 (8 1/2" Tri State FB mill). Pulled mill @ 8381'. Mill was cored in center. Ran 8 1/2" Globe basket; rec portion of key seat wiper skirt 30" long @ 6" wide & sev small pieces of same. Reran mill #4. Now POH w/mill #4.

4/2/78 57 days - TD 8381'. TIH w/bit #RR22. Fin POH w/mill #RR4. Ran mill #5 (8 1/2" Tri State FB mill) @ 8381'. Pulled @ 8381 1/2' rec sev small pieces of junk in junk basket. Now TIH w/bit #RR22 (8 3/4" Smith F2 - SN 756NT).

4/3/78 58 days - Drlg in Preuss formation @ 8445'. Drld 65' in 18 hrs. MW 9.1, vis 37, WL 8.0, pH 9.5. Survey: 3 1/2° @ 8405'. Fin TIH w/bit #RR22 to 8381'. Bit has drld 65' in 18 hrs. Drlg wt-24,000#; RPM-78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/4/78 59 days - Drlg. in Preuss formation @ 8494'. Drld. 48' in 16 hrs. MW 8.2; vis 38; WL 7.6; pH 10.0. Survey: 4° @ 8473'. Pulled bit #RR22 @ 8473'. Bit drld. 92' in 25 1/2 hrs. Dull grade 7-6-1/8". Ran bit #23 (8-3/4" Hughes J33 - SN KD705). Bit has drld. 21' in 8 1/2 hrs. Drlg. wt 22,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/5/78 60 days - Tripping out for bit @ 8545'. Drld. 51' of Preuss formation in 17 hrs. MW 9.1; vis 38; WL 7.2; pH 10.0. Survey: 4° @ 8495'. Pulled bit #23 @ 8495'. Bit drld. 22' in 9 1/4 hrs. Dull grade 2-1-I. Ran bit #24

(8-3/4" Smith V2HJ - SN TA290). Bit has drld. 50' in 16 1/4 hrs. Carrying 2 units BGG. Drlg. wt 22,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/6/78 61 days - TD 8592'. Drld. 47' of Preuss formation in 10 1/4 hrs. WO fishing tools. MW 9.1; vis 38; WL 6.8; pH 10.0. Survey: 3 1/4° @ 8570'. Pulled bit #24 @ 8545'. Bit drld. 50' in 16 1/4 hrs. Dull grade 8-4-1/4".

Ran bit #RR19 (8-3/4" Smith F2 - SN 447NK). Pulled bit #RR19 @ 8592'. Bit drld. 47' in 10 1/4 hrs. Dull grade 8-8. Lost #1 cone & shank. Now WO globe basket.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/7/78 62 days - Washing to bottom @ 8592'. MW 9.2; vis 46; WL 6.6; pH 10.5. TIH w/globe basket. POH. Rec. basketful of rocks. TIH w/magnet. Rec. cone & shank. POH. FU bit #25 (8-3/4" Hughes OWV - SN EH 479). TIH. Now washing to bottom @ 8592'.  
Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

4/8/78 63 days - Drlg. in Preuss formation @ 8662'. Drld. 70' in 14 hrs. MW 9.2; vis 35; WL 8.0; pH 9.5. Survey: 3° @ 8625'. Pulled bit #25 @ 8625'. Bit drld. 33' in 6 1/4 hrs. Dull grade 6-6-I. Ran bit #26 (8-3/4"

Smith F3 - SN 185NK). Bit has drld. 37' in 7-3/4 hrs. Carrying 1 unit BGG. Drlg. wt 26,000#; RPM 52.

4/9 64 days - Drlg. in Preuss formation @ 8754'. Drld. 92' in 22-3/4 hrs. MW 9.2; vis 36; WL 8.0; pH 10.0. Survey: 3° @ 8692'. Bit #26 has drld. 129' in 30 1/2 hrs. Carrying 1 unit BGG. Drlg. wt 24,000#; RPM 52.

4/10 65 days - Drlg. in Preuss formation @ 8851'. Drld. 97' in 22 1/2 hrs. MW 9.2; vis 35; WL 8.8; pH 10.0. Surveys: 2-3/4° @ 8756'; 2 1/4° @ 8851'. Bit #26 has drld. 226' in 53 hrs. Carrying 1 unit BGG. Drlg. wt 28,000#; RPM 52.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/23/78 47 days - Drlg. in Preuss formation @ 7872'.  
Drld. 25' in 3½ hrs. MW 9.1; vis 41; WL 9.2; pH 10.0.  
TIH w/8-1/8" overshot dressed w/6-3/4" grapple.  
Engaged fish. POH w/bit #19 @ 7847'. Bit drld. 53'  
in 13½ hrs. Dull grade 4-2-I. Ran bit #20 (8-3/4" Smith F3 - SN 136MP).  
Bit has drld. 25' in 3½ hrs. Drlg. wt 20,000#; RPM 67.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/24/78 48 days - Drlg in Preuss formation @ 7998'. Drld 126' in  
22½ hrs. MW 9.1, vis 44, WL 9.5, pH 10.5. Survey: 3° @ 7939'.  
Bit #20 has drld 151' in 25 3/4 hrs. Drlg wt 22,000#; RPM 67.  
Total Cost to Date

3/25/78 49 days - TIH w/bit @ 8096'. Drld 98' of Preuss formation in  
21 hrs. MW 9.0, vis 39, WL 9.8, pH 10.0. Survey: 3 3/4° @ 8024'. Now pulled bit #20  
@ 8096'. Bit has drld 249' in 46 3/4 hrs.

UPRR #19-2 (Contd.)  
Summit Co., Utah  
Elkhorn Prospect

3/26/78 50 days - Working stuck DP @ 8164'. Drld 68' in 14 3/4 hrs.  
MW 9.0, vis 42, WL 14.4, pH 10.0. Survey: 4° @ 8138'. Fin pulling  
bit #20. Dull grade 3-2-1. Ran bit #2 (8 3/4" Smith F3 - SN 459MH)  
@ 8096'. Bit drld 68' in 14 3/4 hrs. Had tite hole conditions @  
8154'. Worked loose. Resumed drlg. Bit torqued up & stuck @ 8164'. Now working stuck DP

3/27/78 51 days - Milling on junk @ 8164'. MW 8.9, vis 43, WL 10.4,  
pH 10.5. Worked bit #21 loose & POH. Bit drld 68' in 14 3/4 hrs. Dull grade 2-2-½. Bit  
was pinched. Upon pulling bit #21, found portion of key seat wiper skirt left in hole.  
Ran mill #1 (8 3/4" bladed mill) @ 8164'. Now milling on junk.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/28/78 52 days - TIH w/bit @ 8164'. MW 9.1, vis 50, WL 9.2, pH  
10.5. Pulled mill #1 @ 8164'. TIH w/magnet. Could not get to  
bottom. Magnet stopped @ 8160'. POH. Ran mill #2 (8 3/4" FB  
Tri State mill) @ 8164'. Pulled mill #2 @ 8164'. Now TIH w/rerun  
bit #20 (8 3/4" Smith F-3 - SN 136MP).

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/29/78 53 days - Drlg in Preuss formation @ 8201'. Drld 37' in 10½ hr  
MW 8.9, vis 45, WL 8.8, pH 10.3. Survey: 4° @ 8160'. Pulled bit  
#RR20 @ 8164'. Bit drld 0' in 3½ hrs. Rec many pieces of junk in  
junk basket. Ran bit #22 (8 3/4" Smith F-3 - SN 756HT) @ 8164'.  
Bit has drld 37' in 10½ hrs. Drlg wt-18,000#; RPM-78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/30/78 54 days - Drlg in Preuss formation @ 8282'. Drld 81' in  
23½ hrs. MW 8.9, vis 45, WL 8.4, pH 10.5. Survey: 3½° @ 8230'  
Bit #22 has drld 118' in 33 3/4 hrs. Drlg wt-22,000#; RPM-80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/31/78 55 days - TD 8381'. Pulling bit #22. Drld 99' of Preuss  
formation in 21½ hrs. MW 9.0, vis 42, WL 8.0, pH 11.0. Survey:  
3½° @ 8356'. Now pulling bit #22 @ 8381'. Bit drld 217' in 55½ hrs  
Total Cost to Date

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/14/78 38 days - Drlg. in Kelvin sh @ 6822'. Drld. 216' in 22¼ hrs. MW 9.1; vis 40; WL 9.6; pH 10.0. Survey: 1½° @ 6830'. Bit #15 has drld. 366' in 39-¾ hrs. Drlg. wt 28,000#; RPM 72.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/15/78 39 days - TD 6972'. Drld. 110' of Kelvin sh in 15½ hrs. Washing to bottom. MW 9.1; vis 45; WL 8.2; pH 11.0. Survey: 1¼° @ 6960'. Pulled bit #15 @ 6972'. Bit drld. 476' in 55¼ hrs. Dull grade 6-4-1/8".

Ran bit #16 (8-¾" Smith F2 - SN 519NE). Now washing to bottom @ 6972'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/16/78 40 days - Tripping in @ 7115'. Drld. 143' in 19¼ hrs. MW 9.1; vis 38; WL 9.4; pH 10.5. Survey: 1-¾° @ 7100'. Bit #16 has drld. 143' in 19½ hrs. Lost pump pressure while drlg. @ 7115'. POH. Found cracked pin in #9 DC. Now TIH, washing to bottom

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/17/78 41 days - Washing to bottom w/bit #17 @ 7212'. Drld. 97' of sd & sh in 11½ hrs. MW 9.2; vis 40; WL 9.4; pH 10.0. Survey: 2¼° @ 7149'. Pulled bit #16 @ 7212'. Bit drld. 240' in 31 hrs. Dull grade 6-2-I. Magnafluxed

DC's while out of hole. LD 2 cracked pins. Ran bit #17 (8-¾" Smith F2 - SN 448PK). Now washing to bottom.

Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/18/78 42 days - Drlg. in Kelvin formation @ 7385'. Drld. 173' in 21¼ hrs. MW 9.0; vis 42; WL 8.8; pH 10.5. Survey: 2½° @ 7370'. Finished running bit #17 @ 7212'. Bit has drld. 173' in 21¼ hrs. Drlg. wt 28,000#; RPM 82.

3/19 43 days - Tripping out w/bit #17 @ 7564'. Drld. 179' in 21¼ hrs. MW 9.1; vis 40; WL 8.8; pH 10.5. Survey: 2½° @ 7561'. Now pulling bit #17 @ 7564'. Bit drld. 352' in 42½ hrs. Stump sample top: 7150'.

3/20 44 days - Drlg. in Stump formation @ 7684'. Drld. 120' in 17 hrs. MW 9.1; vis 40; WL 8.9; pH 10.5. Survey: 2½° @ 7624'. Finished pulling bit #17 @ 7564'. Dull grade 8-8-1/2". Ran bit #18 (8-¾" Hughes J22 - SN HB575). Bit has drld. 120' in 17 hrs. Drlg. wt 22,000#; RPM 78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/21/78 45 days - Tripping out for bit @ 7794'. Drld. 110' of Preuss in 20 hrs. MW 9.1; vis 43; WL 9.0; pH 10.5. Surveys: 2-¾° @ 7688'; 3° @ 7750'. Now pulling bit #18 @ 7794'. Bit drld. 230' in 37 hrs. Preuss sample top: 7500'.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/22/78 46 days - TD 7847'. Drld. 53' of Preuss formation in 13½ hrs. PU overshot. MW 9.1; vis 38; WL 9.5; pH 10.0. Survey: 4° @ 7845'. Finished pulling bit #18 @ 7794'. Dull grade 6-2-I. Ran bit #19 (8-¾" Smith F2 - SN 447NK). Bit has drld. 53' in 13½ hrs. Twisted off Dailey jars while drlg. POH. Left 4½' of Dailey jars, 12 DC's, shock sub, IBS & bit sub in hole. Now PU overshot.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/7/78 28 days - Drlg. in sd, sh & sltstn @ 5124'. Drl'd.  
229' in 22-3/4 hrs. MW 8.9; vis 38; WL 7.8; pH 10.5.  
Survey: 2° @ 5065'. Bit #12 has drld. 309' in 30½ hrs.  
Drlg. wt 25,000#; RPM 80.

3/5 29 days - Drlg. in sd, sh & sltstn @ 5312'.  
Drl'd. 188' in 22-3/4 hrs. MW 8.9; vis 40; WL 8.2; pH 10.5. Survey: 1-3/4° @ 5191'.  
Bit #12 has drld. 497' in 53¼ hrs. Drlg. wt 25,000#; RPM 80.

3/6 30 days - Drlg. in sd, sh & sltstn @ 5495'. Drl'd.  
183' in 22½ hrs. MW 9.0; vis 45; WL 7.4; pH 10.0. Survey: 1½° @ 5444'. Bit #12  
has drld. 680' in 75-3/4 hrs. Lost 60 bbls. mud @ 5390'. Drlg. wt 26,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/7/78 31 days - Drlg. in sd & sh @ 5710'. Drl'd. 215'  
in 22¼ hrs. MW 9.0; vis 38; WL 8.0; pH 10.0.  
Survey: 1½° @ 5693'. Bit #12 has drld. 895' in 98 hrs.  
Drlg. wt 28,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/8/78 32 days - Drlg. in sd & sh @ 5820'. Drl'd. 110'  
in 15-3/4 hrs. MW 9.1; vis 38; WL 8.0; pH 9.5.  
Survey: 2° @ 5759'. Pulled bit #12 @ 5759'. Bit drld.  
944' in 104½ hrs. Dull grade 6-6-¼". Ran bit #13  
(8-3/4" Reed FP52 - SN 406720). Bit has drld. 61' in 8-3/4 hrs.  
Drlg. wt 28,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/9/78 33 days - Drlg. in sd & sh @ 6022'. Drl'd. 202'  
in 22-3/4 hrs. MW 9.1; vis 35; WL 8.8; pH 9.5.  
Survey: 1-3/4° @ 5977'. Bit #13 has drld. 263' in 31½ hrs.  
Drlg. wt 28,000#; RPM 80.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/10/78 34 days - TIH w/bit #14 @ 6164'. Drl'd. 142'  
of red, black & gry sh in 17-3/4 hrs. MW 9.0; vis 35;  
WL 8.8; pH 10.0. Survey: 1½° @ 6164'. Pulled bit #13  
@ 6164'. Bit drld. 405' in 49¼ hrs. Dull grade 8-2-I.  
Now running bit #14 (8-3/4" Reed FP51 - SN 832831) @ 6164'.

Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prosp.

3/11/78 35 days - Drlg. in sd & sh @ 6354'. Drl'd. 190'  
in 21½ hrs. MW 9.0; vis 40; WL 9.0; pH 10.5.  
Surveys: 1° @ 6164'; 1¼° @ 6292'. Finished running  
bit #14 @ 6164'. Bit has drld. 190' in 21½ hrs.  
Drlg. wt 28,000#; RPM 80.

3/12 36 days - Tripping out w/bit #14 @ 6496'.  
Drl'd. 142' of sd & sh in 20-3/4 hrs. MW 9.0; vis 40; WL 9.2; pH 11.0.  
Survey: 1½° @ 6418'. Now pulling bit #14 @ 6496'. Bit drld. 332' in 32¼ hrs.

3/13 37 days - Drlg. in sd & sh @ 6646'. Drl'd. 150'  
in 17½ hrs. MW 9.1; vis 40; WL 9.6; pH 10.5. Survey: 1½° @ 6583'.  
Finished pulling bit #14 @ 6496'. Dull grade 8-8-¼". Ran bit #15 (8-3/4"  
Smith F2 - SN 065NG). Bit has drld. 150' in 17½ hrs. Drlg. wt 24,000#; RPM 72.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/23/78 19 days - Tripping out w/bit #9 @ 3573'.  
Drl'd. 57' in 19¼ hrs. MW 8.9; vis 45; WL 7.4; pH 11.0.  
Survey: 2-3/4° @ 3540'. Pulled bit #8 @ 3532'. Bit drld.  
437' in 61½ hrs. Dull grade 2-8-I. Ran bit #9 (8-3/4"

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/24/78 20 days - Drlg. in gry sh & sltstn @ 3653'.  
Drl'd. 83' in 16½ hrs. MW 8.9; vis 39; WL 7.4; pH 11.0.  
Surveys: 2¼° @ 3573'; 2-3/4° @ 3603' & 3647'. Finished  
pulling bit #9 @ 3573'. Dull grade 2-5-I. Ran bit #10  
(8-3/4" Hughes OSC1GJ - SN CS180). Pulled bit #10 @ 3603'. Bit drld. 30' in  
9 hrs. Dull grade 2-4-I. Ran bit #RR7 (8-3/4" Reed FP51 - SN 411838). Bit  
has drld. 53' in 7½ hrs. Drlg. wt 28,000#; RPM 82.

Total cost to date:

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/25/78 21 days - Drlg. in Aspen sh & sltstn @ 3889'.  
Drl'd. 233' in 20-3/4 hrs. MW 8.9; vis 39; WL 7.4; pH 11.0.  
Survey: 3° @ 3867'. Bit #RR7 has drld. 286' in 28¼ hrs.  
Drlg. wt 35,000#; RPM 65.

2/26 22 days - Drlg. in Aspen sd & sh @ 4055'.  
Drl'd. 166' in 18½ hrs. MW 9.0; vis 46; WL 7.0; pH 11.0. Survey: 3° @ 4055'.  
Pulled bit #RR7 @ 4004'. Bit drld. 401' in 41-3/4 hrs. Dull grade 4-2-1/8".  
Ran bit #11 (8-3/4" Smith F2 - SN 446ME). Bit has drld. 51' in 5 hrs.  
Drlg. wt 18,000#; RPM 74.

2/27 23 days - Drlg. in Aspen sh @ 4245'. Drl'd. 190'  
in 22¼ hrs. MW 9.0; vis 42; WL 7.0; pH 11.0. Survey: 2-3/4° @ 4228'.  
Bit #11 has drld. 241' in 27¼ hrs. Aspen sample top: 3685'. Drlg. wt 18,000#;  
RPM 74.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/28/78 24 days - Drlg. in gry-brn sh & sltstn @ 4405'.  
Drl'd. 160' in 22½ hrs. MW 9.0; vis 38; WL 6.5; pH 10.5.  
Survey: 2¼° @ 4372'. Bit #11 has drld. 409' in 49-3/4 hrs.  
Drlg. wt 18,000#; RPM 74.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/1/78 25 days - Drlg. in shale & sltstn @ 4596'.  
Drl'd. 191' in 22¼ hrs. MW 8.9; vis 39; WL 7.6; pH 10.0.  
Survey: 2-1/8° @ 4561'. Bit #11 has drld. 592' in 72 hrs.  
Drlg. wt 20,000#; RPM 78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/2/78 26 days - Drlg. in red & blue shale & sltstn @ 4781'.  
Drl'd. 185' in 22½ hrs. MW 8.9; vis 39; WL 7.2; pH 10.5.  
Survey: 2° @ 4749'. Bit #11 has drld. 777' in 94½ hrs.  
Kelvin sample top: 4190'. Drlg. wt 22,000#; RPM 78.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

3/3/78 27 days - Drlg. in sd, sh & sltstn @ 4895'.  
Drl'd. 114' in 11-3/4 hrs. MW 8.9; vis 40; WL 6.8;  
pH 10.5. Survey: 2¼° @ 4815'. Pulled bit #11 @ 4815'.  
Bit drld. 811' in 98½ hrs. Dull grade 5-4-1/8".  
Ran bit #11 (8-3/4" Sec. S84F - SN 770502). Bit has drld. 80' in 7-3/4 hrs.  
Drlg. wt 22,000#; RPM 78.

Total cost to date:

UPRR #19-2 2/14/78 10 days - Drlg. in sd & sh @ 2030'. Drld. 115'  
Summit Co., Utah in 9 hrs. MW 8.9; vis 44; WL 20.0; pH 9.0.  
Elkhorn Prospect Surveys: ¼° @ 1958'; ½° @ 2021'. Finished NU BOPE.  
Pressure-tested BOPE & flow equip. to 3000 psi; hydril  
& csg. to 1500 psi. Ran bit #6 (8-3/4" Smith F2 - SN 257NE) @ 1915'. Bit has  
drld. 115' in 9 hrs. Drlg. wt 20,000#; RPM 52.

UPRR #19-2 2/15/78 11 days - Drlg. in sd & gry sh @ 2307'. Drld.  
Summit Co., Utah 277' in 22¼ hrs. MW 8.9; vis 38; WL 9.0; pH 10.5.  
Elkhorn Prospect Survey: ½° @ 2242'. Bit #6 has drld. 392' in 31¼ hrs.  
Drlg. wt 20,000#; RPM 80.

UPRR #19-2 2/16/78 12 days - Drlg. in sh, sltstn & bentonite @ 2602'.  
Summit Co., Utah Drld. 295' in 22½ hrs. MW 8.9; vis 35; WL 7.8; pH 9.5.  
Elkhorn Prospect Surveys: ½° @ 2337'; 1½° @ 2589'. Bit #6 has drld. 687'  
in 53-¾ hrs. Drlg. wt 18,000#; RPM 80.

UPRR #19-2 2/17/78 13 days - Drlg. in gry sh & sltstn @ 2760'.  
Summit Co., Utah Drld. 158' in 19-¾ hrs. MW 8.9; vis 43; WL 7.2; pH 9.5.  
Elkhorn Prospect Surveys: 1¼° @ 2621'; 1-¾° @ 2715'. Pulled bit #6  
@ 2719'. Bit drld. 804' in 67-¾ hrs. Dull grade  
5-4-1/8". Ran bit #7 (8-3/4" Reed FP51 - SN 411838). Bit has drld. 41' in 5½ hrs.  
Drlg. wt 16,000#; RPM 80.

Total cost to date:

UPRR #19-2 2/18/78 14 days - Drlg. in sltstn @ 2938'. Drld. 178'  
Summit Co., Utah in 22¼ hrs. MW 8.9; vis 45; WL 7.6; pH 10.5.  
Elkhorn Prospect Surveys: 1-¾° @ 2777'; 2° @ 2933'. Bit #7 has drld.  
214' in 27-¾ hrs. Drlg. wt 15,000#; RPM 80.

2/19 15 days - Drlg. in gry sh & sltstn @ 3075'.  
Drld. 137' in 23 hrs. MW 8.9; vis 39; WL 8.0; pH 11.0. Survey: 2° @ 2997'.  
Bit #7 has drld. 356' in 50-¾ hrs. Drlg. wt 10,000#; RPM 80.

2/20 16 days - Drlg. in gry sh & sltstn @ 3161'.  
Drld. 86' in 16-¾ hrs. MW 8.9; vis 40; WL 7.8; pH 11.0. Surveys: 2¼° @ 3091';  
1-¾° @ 3143'. Pulled bit #7 @ 3095'. Bit drld. 376' in 55¼ hrs. Dull grade  
2-2-1. (Will rerun.) Ran bit #8 (8-3/4" Hughes J22 - SN ?). Bit has drld. 86'  
in 11-¾ hrs. Pulled bit #7; LD stiff assy. PU 63' pendulum & TIH w/bit #8.  
Drlg. wt 10,000#; RPM 80.

UPRR #19-2 2/21/78 17 days - Drlg. in coal, sh & sltstn @ 3338'.  
Summit Co., Utah Drld. 177' in 22 hrs. MW 8.9; vis 42; WL 7.6; pH 11.0.  
Elkhorn Prospect Survey: 1-¾° @ 3331'. Bit #8 (SN JF598) has drld.  
243' in 33-¾ hrs. Drlg. wt 10,000#; RPM 82.

UPRR #19-2 2/22/78 18 days - Drlg. in gry sh, sltstn & coal @ 3516'.  
Summit Co., Utah Drld. 178' in 22¼ hrs. MW 8.9; vis 42; WL 7.6; pH 11.0.  
Elkhorn Prospect Surveys: 2° @ 3394'; 2-1/8° @ 3458'. Bit #8 has drld.  
421' in 56 hrs. Drlg. wt 6-8000#; RPM 82.

UPRR #19-2 2/4/78 RURT.  
Summit Co., Utah 2/5 Day #1 - Drlg. in conglomerate @ 200'. Drld. 115'  
Elkhorn Prospect in 10 hrs. MW 9.1; vis 47; WL 20.0; pH 8.5. Survey: 1°  
@ 152'. Set 85' of 24" conductor csg. w/Bill Jr's Rat Hole  
Drlg. Ran bit #1 (12¼" Smith 2JS - SN 685LR) @ 85'. Bit has drld. 115' in 10 hrs.  
**Spudded @ 7:30 PM 2/4/78.** KB elev. - True Drlg. Rig #14: 16.80'. Drlg. wt  
10,000#; RPM 88.

2/6 2 days - Drlg. in sd, gravel & gumbo @ 550'.  
Drld. 350' in 22¼ hrs. MW 8.8; vis 44; WL 22.0; pH 9.0. Survey: ½° @ 533'.  
Bit #1 has drld. 462' in 32¼ hrs. Drlg. wt 10,000#; RPM 84.

UPRR #19-2 2/7/78 3 days - Drlg. in conglomerate @ 850'.  
Summit Co., Utah Drld. 300' in 19-¾ hrs. MW 8.9; vis 46; WL 25.0; pH 9.0.  
Elkhorn Prospect Surveys: ½° @ 469'; ¾° @ 722'. Pulled bit #1 @ 735'.  
Bit drld. 647' in 45½ hrs. Dull grade 6-5-1/8".  
Ran bit #2 (12¼" Smith F2 - SN 553MK). Bit has drld. 115' in 6½ hrs.  
Drlg. wt 10,000#; RPM 60. KB elev: 6736'. (Corrected KB elev. on  
True Rig #14: 15.40'.)

UPRR #19-2 2/8/78 4 days - Drlg. in conglomerate @ 1160'.  
Summit Co., Utah Drld. 310' in 22-¾ hrs. MW 9.1; vis 43; WL 20.0;  
Elkhorn Prospect pH 9.0. Survey: 1° @ 1037'. Bit #2 has drld. 425' in  
29¼ hrs. Drlg. wt 12,000#; RPM 96.

UPRR #19-2 2/9/78 5 days - Drlg. in conglomerate @ 1340'.  
Summit Co., Utah Drld. 190' in 20-¾ hrs. MW 9.0; vis 44; WL 19.0;  
Elkhorn Prospect pH 8.5. Surveys: ¾° @ 1150'; 1° @ 1310'. Pulled bit #2  
@ 1263'. Bit drld. 528' in 41 hrs. Dull grade 4-4-I.  
Ran bit #3 (12¼" Smith DGJ - SN 842ME). Bit has drld. 77' in 9¼ hrs.  
Drlg. wt 12,000#; RPM 93.

UPRR #19-2 2/10/78 6 days - Drlg. in sh & conglomerate @ 1545'.  
Summit Co., Utah Drld. 205' in 20-¾ hrs. MW 8.9; vis 44; WL 19.0; pH 8.5.  
Elkhorn Prospect Surveys: ½° @ 1330' & 1481'. Pulled bit #3 @ 1352'.  
Bit drld. 89' in 10½ hrs. Dull grade 5-5-1/8". Ran bit #4  
(12¼" Smith F2 - SN VV336). Bit has drld. 193' in 19¼ hrs. Drlg. wt 14,000#; RPM 65.  
Total cost to date:

UPRR #19-2 2/11/78 7 days - Drlg. in conglomerate @ 1725'. Drld. 180'  
Summit Co., Utah in 19-¾ hrs. MW 8.9; vis 43; WL 19.0; pH 8.5.  
Elkhorn Prospect Survey: ¾° @ 1725'. Pulled bit #4 @ 1725'. Bit drld.  
373' in 39 hrs. Dull grade 3-3-I. Ran bit #5 (12¼" Hughes  
J22 - SN EZ252). Now on bottom. Drlg. wt 14,000#; RPM 65.

2/12 8 days - Drlg. in conglomerate @ 1912'. Drld. 187'  
in 22½ hrs. MW 8.9; vis 42; WL 20.0; pH 9.5. Survey: ¾° @ 1858'. Bit #5 has  
drld. 187' in 22½ hrs. Drlg. wt 18,000#; RPM 65.

2/13 9 days - TD 1915'. Drld. 3' in ½ hr. WOC &  
NU csg. head. MW 8.9; vis 45; WL 18.0; pH 9.5. Survey: ½° @ 1900'. Pulled  
bit #5 @ 1915'. Bit drld. 190' in 23 hrs. Dull grade 3-3-I. RU & ran 45 jts 9-5/8"  
csg. consisting of 29 jts 36# K-55 ST&C (1225.85') & 16 jts 40# K-55 LT&C (688.18'),  
total pipe 1914.67', total length of string w/shoe & collar 1919', set @ 1915' KB.  
Cemented w/900 sx Howco Lite, 10#/sk gilsonite, ¼#/sk flocele & 2% CaCl,  
followed by 325 sx Class G, ¼#/sk flocele & 2% CaCl. Had good returns thruout.  
Cmt. circulated. PD 8:00 PM 2/12/78. Now WOC & NU csg. head.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/11/78 FIRST REPORT. Staked loc. 660' FWL & 1980' FNL (SW $\frac{1}{4}$  NW $\frac{1}{4}$ ) of Sec. 19-2N-7E. Elev: 6880' GR (approx.). Drlg. contractor: True Drlg. - Rig #14. Now bldg. loc.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/12/78 Bldg. loc.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/13/78 Bldg. loc.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/14-16/78 Bldg. location.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/17/78 Bldg. location.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/18/78 Bldg. loc.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/19/78 Finished bldg. location. (Drop from report pending MIRT.)

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

1/31/78 RDRT (True Rig #14); WO crane; prep to move rig to UPRR #19-2.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/1/78 RDRT (True Rig #14) on Judd #34-1. MI & RURT on UPRR #19-2.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/2/78 RURT.

UPRR #19-2  
Summit Co., Utah  
Elkhorn Prospect

2/3/78 RURT.

CIRCULATE TO:

- DIRECTOR
- PETROLEUM ENGINEER
- MINE COORDINATOR
- ADMINISTRATIVE ASSISTANT
- ALL

RETURN TO Randy Avila FOR FILING

*WES GMP J*

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



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number UPRR 19-2

Operator American Quasar Petroleum Co.

Address Casper Wyo. 82601

Contractor True Drilling Co.

Address Casper, Wyo. 82601

Location SW 1/4, NW 1/4, Sec. 19; T. 2 N; R. 7 E; Summit County

Water Sands: None Encountered

From- 1. 2. 3. 4. 5.	Depth: To-	Volume: Flow Rate or Head -	Quality: Fresh or Salty -

(Continue on Reverse Side if Necessary)

Formation Tops:		
Frontier	1922	Preuss 7519
Aspen	3692	Salt 8964-9540
Dakota	3902	Twin Creek 9569
Kelvin	4160	Gypsum Springs 11078
Stump	7144	Nugget 1118

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

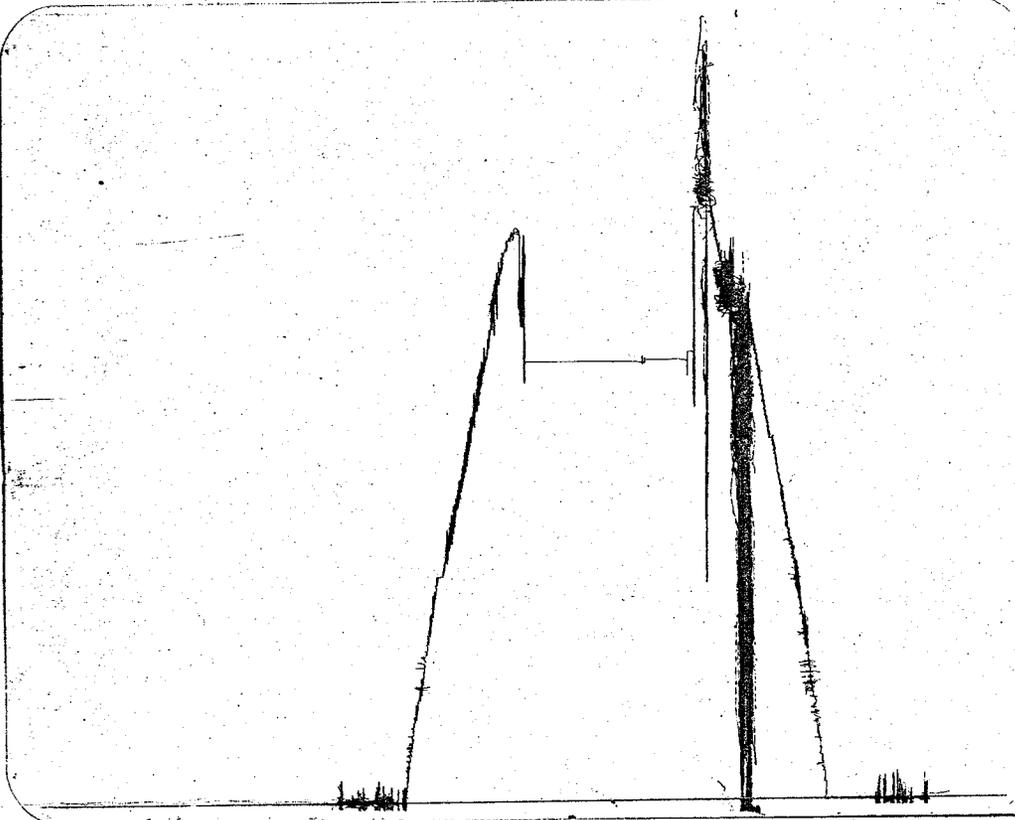
*TD11419'*

Contractor True Drlg. Co. Top Choke 1/4"  
 Rig No. 14 Bottom Choke 3/4"  
 Spot SW-NW Size Hole 8 3/4"  
 Sec. 19 Size Rat Hole --  
 Twp. 2 N Size & Wt. D. P. 4 1/2" 16.60  
 Rng. 7 E Size Wt. Pipe --  
 Field Unnamed I. D. of D. C. 2 3/8"  
 County Summit Length of D. C. 591'  
 State Utah Total Depth 11237'  
 Elevation 6880' "Ground" Interval Tested 11160-11237'  
 Formation Nugget Type of Test Bottom Hole  
Conventional

Flow No. 1 10 Min.  
 Shut-in No. 1 60 Min.  
 Flow No. 2 60 Min.  
 Shut-in No. 2 120 Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.

Bottom Hole Temp. --  
 Mud Weight 10.4  
 Gravity --  
 Viscosity 127

Tool opened @ 7:08 AM.



Inside Recorder  
 PRD Make Kuster AK-1  
 No. 1478 Cap. 8100 @ 11144'

	Press	Corrected
Initial Hydrostatic	A	6074
Final Hydrostatic	K	5981
Initial Flow	B	4108
Final Initial Flow	C	4442
Initial Shut-in	D	4599
Second Initial Flow	E	4573
Second Final Flow	F	4585
Second Shut-in	G	4585
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

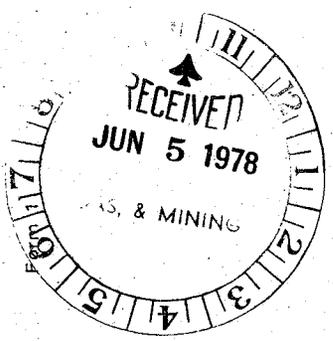
Lynes Dist.: Rock Springs, Wy.  
 Our Tester: Art Anderson  
 Witnessed By: Kent Grandbouche

Did Well Flow - Gas No Oil No Water No  
 RECOVERY IN PIPE: 588' Total Fluid  
 560' Heavy mud = 3.08 bbl.  
 28' Mud = .15 bbl.

-----  
 1st Flow - Tool opened with a very weak blow, increased to a 1" underwater blow and remained thru flow period.  
 2nd Flow - Tool opened with a very weak blow, increased slightly and remained thru flow period.

REMARKS:

-----  
 MISRUN - Had to spud tools to bottom, charts indicate tool was completely plugged.  
 -----



Operator American Quasar Petroleum Co. Well Name and No. UPRR #19-2  
 Address See Distribution Ticket No. 10428 Date 5-29-78 No. Final Copies 20  
 DST No. 3

# LYNES, INC.

## Fluid Sample Report

Company American Quasar Petroleum Co. Date 5-29-78  
Well Name & No. UPRR #19-2 Ticket No. 10428  
County Summitt State Utah  
Test Interval 11160-11237' DST No. 3

Total Volume of Sampler: 2000 cc.

Total Volume of Sample: 800 cc.

Pressure in Sampler: 3 psig

Oil: None cc.

Water: None cc.

Mud: 800 Heavy mud cc.

Gas: None cu. ft.

Other: None

R.W. .2 @ 80°F = 30,000 ppm. chl.

### Resistivity

Make Up Water 5.0 @ 62°F of Chloride Content 1200 ppm.

Mud Pit Sample .1 @ 75°F of Chloride Content 70,000 ppm.

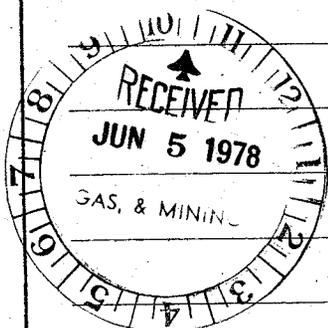
Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location.

Remarks: Recovery - Top Sample - R.W. .1 @ 84°F = 60,000 ppm. chl.

Middle Sample - R.W. .1 @ 80°F = 65,000 ppm. chl.

Bottom Sample - R.W. .2 @ 82°F = 30,000 ppm. chl.



# LYNES, INC.

## Distribution of Final Reports

Operator American Quasar Petroleum Co. Well Name and No. UPRR #19-2

Original: American Quasar Petroleum Co., 707 United Bank Tower, 1700 Broadway, Denver,  
Colorado 80290

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1 copy: American Quasar Petroleum Co., 1000 Midland National Bank Bldg., Midland, Texas  
79701

3 copies: American Quasar Petroleum Co., Fort Worth National Bank Bldg., Fort Worth, Texas  
76102

2 copies: Amoco Production Co., Security Life Bldg., Denver, Colorado 80202

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2 copies: Sun Oil Co., Box 2039, Tulsa, Oklahoma 74102

1 copy: Occidental Petroleum Co. 5000 Stockdale Highway, Bakersfield, California 93306  
Attn: D.W. Chenot

1 copy: Energetics, Inc., 333 West Hampden Ave., Englewood, Colorado 80110

Attn: Patrick Maher

1 copy: North Central Oil Co., Box 27491, Houston, Texas 77027

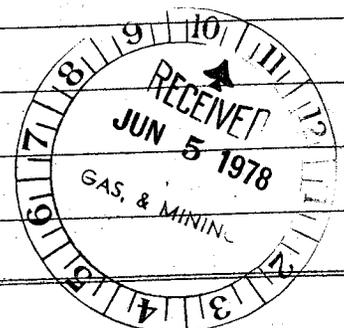
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2 copies: Champlin Petroleum Co., 1724 Security Life Bldg., Denver, Colorado 80202

Attn: John Smith

2 copies: Utah Oil & Gas Comm., 1588 W.N. Temple, Salt Lake City, Utah 84116

1 copy: V.B. Gras, 777 9th Ave., Salt Lake City, Utah 84103



Contractor True Drlg. Co.  
 Rig No. 14  
 Spot SW-NW  
 Sec. 19  
 Twp. 2 N  
 Rng. 7 E  
 Field Unnamed  
 County Summit  
 State Utah  
 Elevation 6880' "Ground"  
 Formation T Creek

Top Choke 5/8"  
 Bottom Choke 1/4"  
 Size Hole 8 3/4"  
 Size Rat Hole --  
 Size & Wt. D. P. 4 1/2" 16.60  
 Size Wt. Pipe --  
 I. D. of D. C. 2 1/4"  
 Length of D. C. 475'  
 Total Depth 10809'  
 Interval Tested 10610-10809'  
 Type of Test Bottom Hole  
Conventional

Flow No. 1 65 Min.  
 Shut-in No. 1 90 Min.  
 Flow No. 2 -- Min.  
 Shut-in No. 2 -- Min.  
 Flow No. 3 -- Min.  
 Shut-in No. 3 -- Min.  
 Bottom Hole Temp. --  
 Mud Weight 10.6  
 Gravity --  
 Viscosity 100

Tool opened @ 7:55 AM.

Outside Recorder

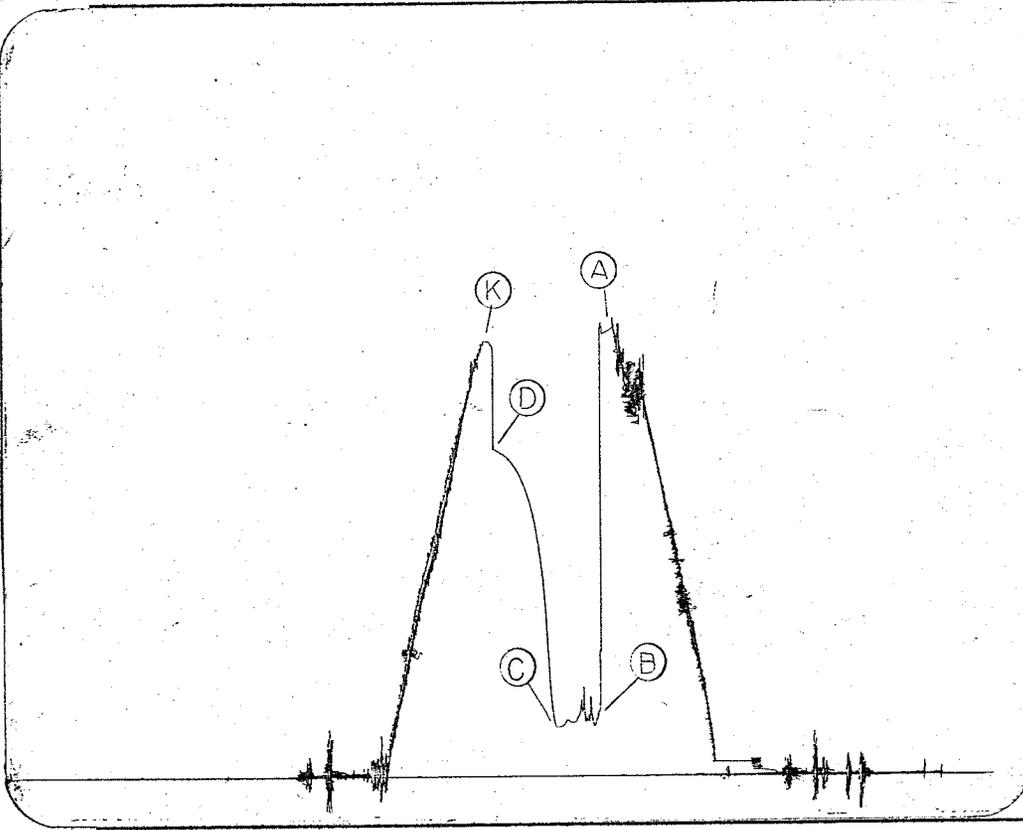
PRD Make Kuster AK-1  
 No. 1389 Cap. 10500 @ 10800'

	Press	Corrected
Initial Hydrostatic	A	6008
Final Hydrostatic	K	5915
Initial Flow	B	877
Final Initial Flow	C	664
Initial Shut-in	D	4427
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.

Our Tester: Charles Tuzicka

Witnessed By: Kent Grandbouche



Did Well Flow - Gas No Oil No Water No  
 RECOVERY IN PIPE: 1080' Total Fluid  
 1000' Oil & gas cut mud = 10.53 bbl.  
 80' Water cut mud = .39 bbl.

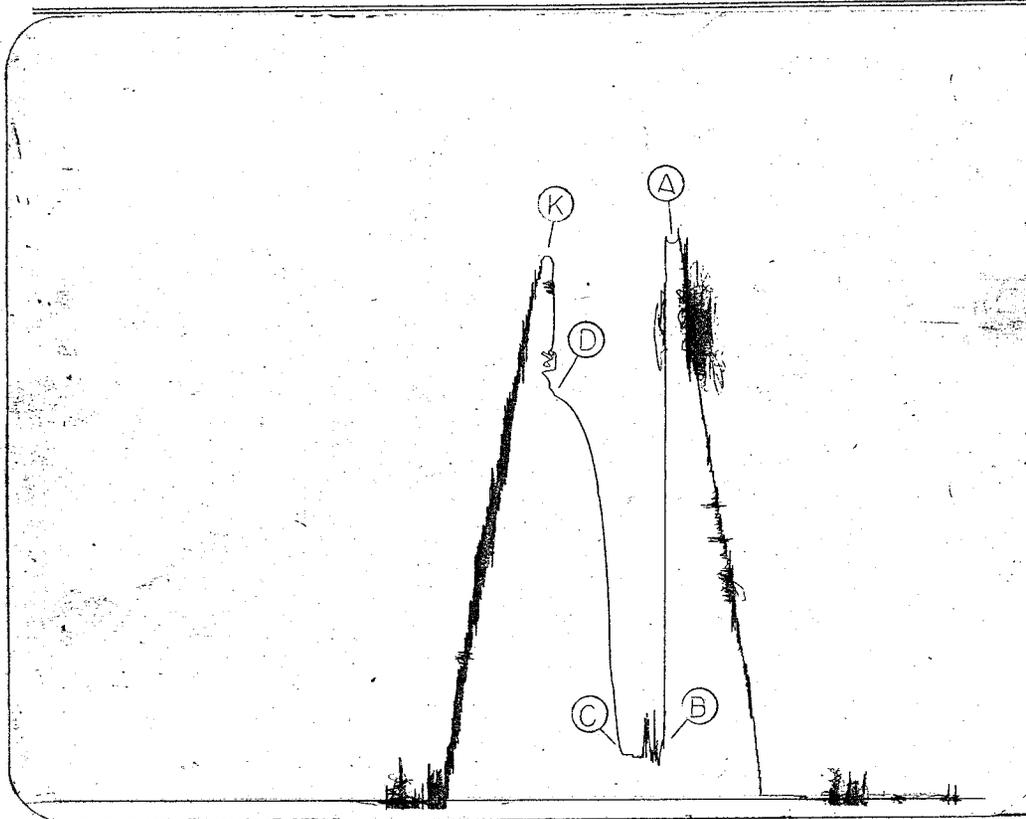
REMARKS:  
 -----  
 1st Flow - Tool opened with a weak blow, increased to a 4 oz. blow and remained thru flow period.  
 2nd Flow - Tool opened with a strong blow, increased to bottom of bucket in 45 minutes and remained thru flow period.  
 -----

Operator American Quasar Petroleum Co.  
 Address See Distribution  
 Well Name and No. UPRR #19-2  
 Ticket No. 10368  
 Date 5-24-78  
 No. Final Copies 20  
 DST No. 2

# LYNES, INC.

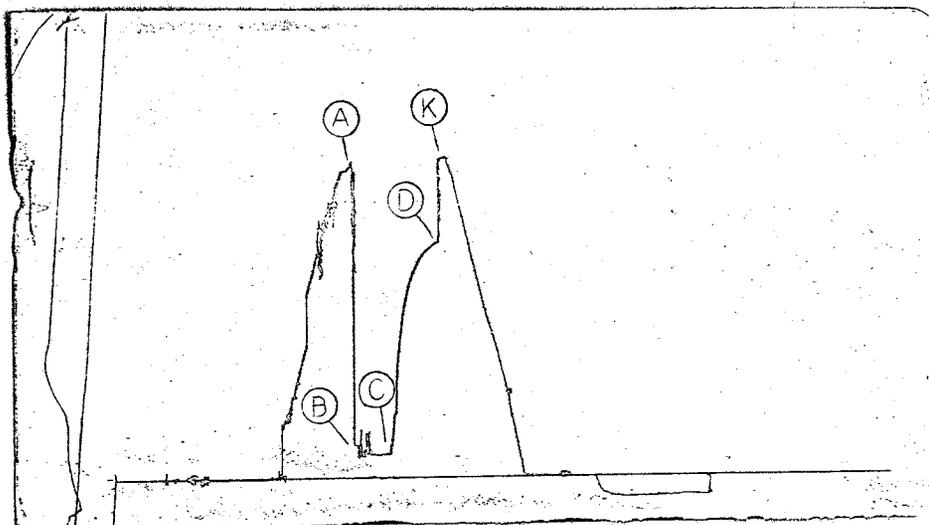
Operator American Quasar Petroleum Co. Lease & No. UPRR #19-2

DST No. 2



Inside Recorder  
PRD Make Kuster AK-1  
No. 1478 Cap. 8100 @ 10615'

	Press	Corrected
Initial Hydrostatic	A	5894
Final Hydrostatic	K	5765
Initial Flow	B	615
Final Initial Flow	C	488
Initial Shut-in	D	4318
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---
Pressure Below Bottom Packer Bled To		



Inside Recorder  
PRD Make Kuster K-3  
No. 4868 Cap. 8200 @ 10590'

	Press	Corrected
Initial Hydrostatic	A	5865
Final Hydrostatic	K	5759
Initial Flow	B	586
Final Initial Flow	C	447
Initial Shut-in	D	4320
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---
Pressure Below Bottom Packer Bled To		

# LYNES INC.

REPORT # 516

WELL NAME - UPRR 19-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 2

RECORDER NUMBER - 1389

## FIRST SHUT IN PRESSURE

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
.0	.0000	664
5.0	14.0000	869
10.0	7.5000	1450
15.0	5.3333	2257
20.0	4.2500	2777
25.0	3.6000	3138
30.0	3.1667	3414
35.0	2.8571	3613
40.0	2.6250	3785
45.0	2.4444	3920
50.0	2.3000	4035
55.0	2.1818	4128
60.0	2.0833	4203
65.0	2.0000	4261
70.0	1.9286	4312
75.0	1.8667	4349
80.0	1.8125	4378
85.0	1.7647	4405
90.0	1.7222	4427

FITTED LINE:  $\text{LOG}((T_0+\text{PHI})/\text{PHI}) = -.00045 \text{ PSIG} + 2.24904$

EXTRAPOLATION OF FIRST SHUT IN = 4946.22 M = 2199.26

# LYNES, INC.

## Fluid Sample Report

Date 5-25-78 Ticket No. 10368  
Company American Quasar Petroleum Co. DST No. 2  
Well Name & No. UPRR #19-2 State Utah  
County Summit Test Interval 10610-10809'

Pressure in Sampler 1200 PSIG BHT 208 °F

Total Volume of Sampler: 2100 cc.  
Total Volume of Sample: 600 cc.  
Oil: 600 cc.  
Water: None cc.  
Mud: None cc.  
Gas: 2.5 cu. ft.  
Other: None

### Resistivity

Make Up Water 5.0 @ 60°F of Chloride Content 1200 ppm.  
Mud Pit Sample .1 @ 80°F of Chloride Content 70,000 ppm.  
Gas/Oil Ratio 675/1 Gravity 39.0 °API @ 60 °F

Where was sample drained On location.

Remarks: Recovery - Top Sample - R.W. .1 @ 75°F = 70,000 ppm. chl.  
Middle Sample - R.W. .1 @ 70°F = 75,000 ppm. chl.  
Bottom Sample - R.W. .1 @ 70°F = 75,000 ppm. chl.

# LYNES, INC.

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Attn: John Smith

2 copies: Utah Oil & Gas Comm., 1588 W.N. Temple, Salt Lake City, Utah 84116

1 copy: V.B. Gras, 777 9th Ave., Salt Lake City, Utah 84103

Contractor True Drlg. Co.  
Rig No. 14  
Spot SW-NW  
Sec. 19  
Twp. 2 N  
Rng. 7 E  
Field Unnamed  
County Summit  
State Utah  
Elevation 6880' "Ground"  
Formation Twin Creek

Top Choke 1/4"  
Bottom Choke 3/4"  
Size Hole 8 3/4"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2" 16.60  
Size Wt. Pipe --  
I. D. of D. C. 2 1/4"  
Length of D. C. 180'  
Total Depth 10595'  
Interval Tested 10380-10595'  
Type of Test Bottom Hole  
Conventional

Flow No. 1 60 Min.  
Shut-in No. 1 90 Min.  
Flow No. 2 --- Min.  
Shut-in No. 2 --- Min.  
Flow No. 3 --- Min.  
Shut-in No. 3 --- Min.

Bottom  
Hole Temp. --  
Mud Weight 10.8  
Gravity --  
Viscosity 125

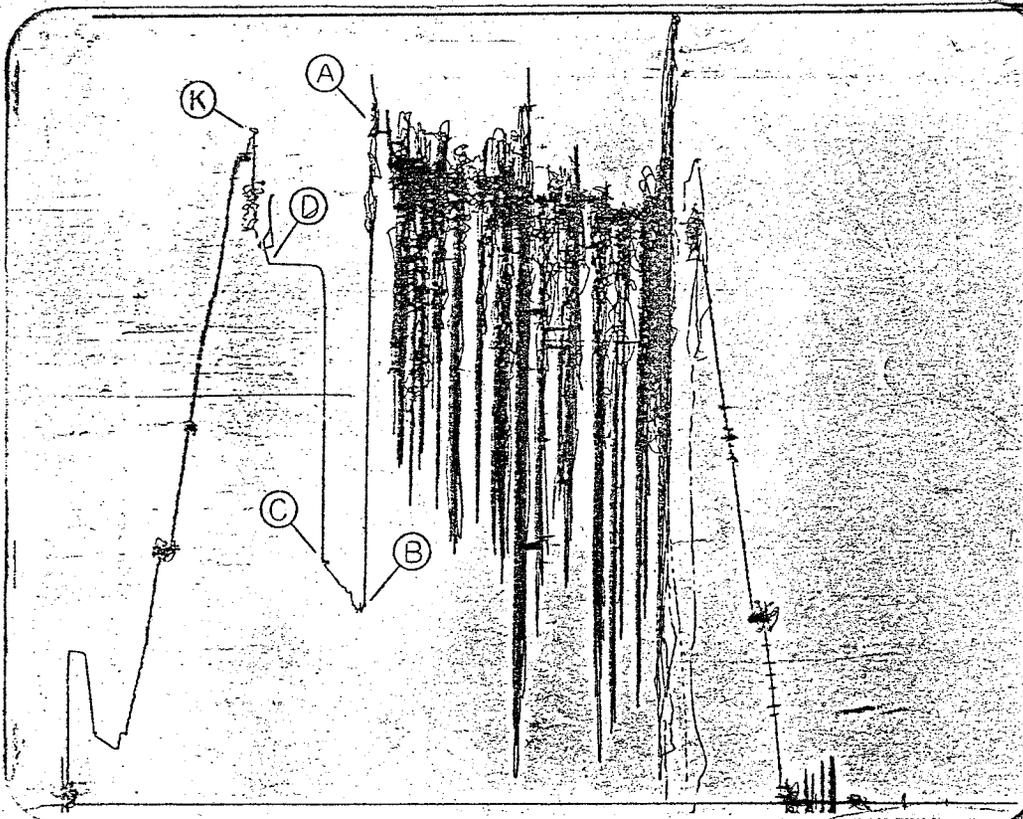
Tool opened @ 4:30 AM.

**Inside Recorder**

PRD Make Kuster AK-1  
No. 7424 Cap. 6750 @ 10360'

	Press	Corrected
Initial Hydrostatic	A	5840
Final Hydrostatic	K	5822
Initial Flow	B	1656
Final Initial Flow	C	2092
Initial Shut-in	D	4707
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Rock Springs, Wy.  
Our Tester: Bill Alford  
Witnessed By: Tom Taylor



Did Well Flow - Gas NO Oil NO Water NO

RECOVERY IN PIPE: Total recovery is unknown as drill pipe was unloading. Pulled approximately 1980' of oil & gas cut mud then test was reverse circulated. Estimated 7% oil, 60% gas and 33% mud.

1st Flow - Tool opened with a weak blow, increased to bottom of bucket in 6 minutes and continued to increase thru remainder of flow period.

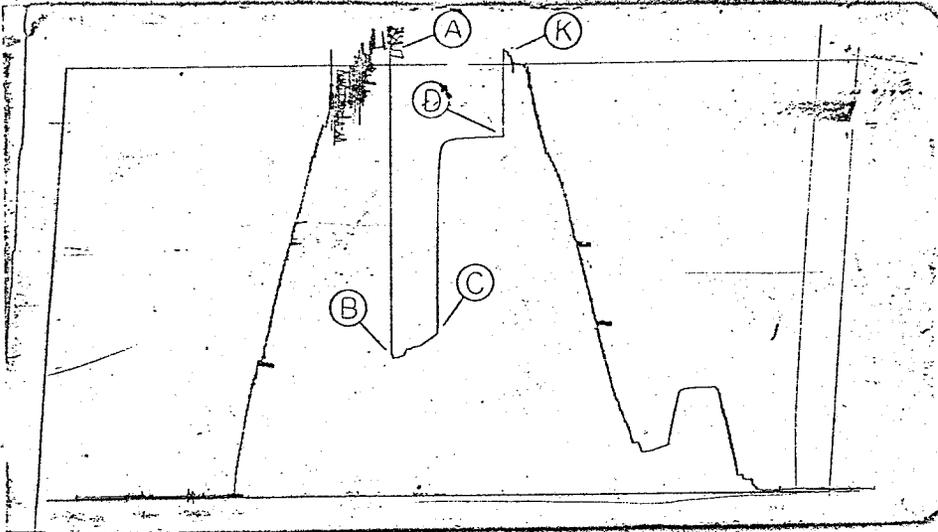
REMARKS:

Charts indicate tool was opened several times while spudding to bottom.

Operator  
American Quasar Petroleum Co.  
Well Name and No.  
UPRR #19-2  
Ticket No.  
10406  
Date  
5-22-78  
No. Final Copies  
20

# LYNES, INC.

Operator American Quasar Petroleum Lease & No. UPRR #19-2 DST No. 1



Outside Recorder

PRD Make Kuster K-3  
 No. 8682 Cap. 6200 @ 10595

	Press	Corrected
Initial Hydrostatic	A	5858
Final Hydrostatic	K	5840
Initial Flow	B	1680
Final Initial Flow	C	2119
Initial Shut-in	D	4720
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---

Pressure Below Bottom Packer Bled To

PRD Make \_\_\_\_\_  
 No. \_\_\_\_\_ Cap. \_\_\_\_\_ @ \_\_\_\_\_

	Press	Corrected
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pressure Below Bottom Packer Bled To

# LYNES INC.

REPORT # 511

WELL NAME - UPRR 19-2

WELL OPERATOR - AMERICAN QUASAR PETROLEUM CO.

DST NUMBER - 1

RECORDER NUMBER - 7424

## FIRST SHUT IN PRESSURE

-----

TIME(MIN) PHI	(T+PHI) /PHI	PSIG
-----	-----	-----
.0	.0000	2092
9.0	7.6667	4683
18.0	4.3333	4694
27.0	3.2222	4696
36.0	2.6667	4698
45.0	2.3333	4700
54.0	2.1111	4702
63.0	1.9524	4704
72.0	1.8333	4705
81.0	1.7407	4706
90.0	1.6667	4707

FITTED LINE:  $\text{LOG}((T+PHI)/PHI) = -.02155 \text{ PSIG} + 101.66681$

EXTRAPOLATION OF FIRST SHUT IN = 4717.29 M = 46.40

# LYNES, INC.

## Fluid Sample Report

Date 5-22-78 Ticket No. 10406  
Company American Quasar Petroleum Co DST No. 1  
Well Name & No. UPRR # 19-2 State Utah  
County Summit Test Interval 10380-10595'

Pressure in Sampler -- PSIG BHT -- °F

Total Volume of Sampler: 2100 cc.  
Total Volume of Sample: 2100 cc.  
Oil: None cc.  
Water: None cc.  
Mud: 2100 Gas cut cc.  
Gas: -- cu. ft.  
Other: None

### Resistivity

Make Up Water 2.8 @ 105°F of Chloride Content 1400 ppm.  
Mud Pit Sample 122 @ 85°F of Chloride Content 25,750 ppm.  
Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained \_\_\_\_\_

Remarks: Recovery - Top Sample - R.W. .06 @ 80° F = 120,000 ppm. chl.  
Middle Sample - R.W. .08 @ 80° F = 85,000 ppm. chl.  
Bottom Sample - R.W. .08 @ 80° F = 85,000 ppm. chl.

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P

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER (Completion)		5. LEASE DESIGNATION AND SERIAL NO. Champlin UPRR fee pooled	
2. NAME OF OPERATOR American Quasar Petroleum Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 204 Superior Bldg., Casper, Wyo. 82601		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL & 1980' FNL		8. FARM OR LEASE NAME UPRR	
14. PERMIT NO.		9. WELL NO. 19-2	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6880' GR		10. FIELD AND POOL, OR WILDCAT Elkhorn	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 19-2N-7E	
		12. COUNTY OR PARISH Summit	13. STATE Utah

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

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

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

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

This is a Monthly Report of Operations for period 1/11-6/11/78  
(see attached chronological report). This well is now in completion stage.



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

SIGNED John F. Sindelar TITLE Division Drlg. Supt. DATE 6/13/78  
John F. Sindelar  
 (This space for Federal or State office use) *bf.*

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

\*See Instructions on Reverse Side

UPRR #19-2  
Summit Co., Utah

7/1/78 SITP-50 psi; SICP-0; FL-1200'. Swabbed 11 hrs; rec 200 bbls acid wtr (CL: 50,000, pH: 6). No show of oil or gas. FL-3400'. Load to rec-136 bbls. CIWSDFN

7/2/78 SITP-25 psi; SICP-0; FL-2700'. Swabbed 8 hrs; rec 150 BW; no show of oil or gas; FL-4200'. CIWSDFN

7/3-4-5/78 SDF holiday.

UPRR #19-2  
Summit Co., Utah

7/6/78 SITP-25 psi; SICP-0; FL-1850'. Swabbed 1 hr; rec 12 BW w/ trace of oil on 1st run. Rlsd pkr; POH, LD 7 jts tbg. Ran & set CIBP on wireline @ 10,700'. Dmpd 1½ sx cmt on plug. PBD-10,694'.

UPRR #19-2  
Summit Co., Utah

7/7/78 Perfd Watton Canyon 10,570-660', 1 spf, 10,485-518', 2 spf w/4" csg gun. (Correlated to Schlumberger density log). RD Petrolog. PU 7" Baker retrievomatic pkr. TIH w/160 jts 2 7/8" CS Hydril, 78 jts 2 7/8" DSS, 99 jts 2 7/8" 8 rd. Set pkr @ 10,398'. Press tested to 1500 psi. Commenced swabbing. FL-750'. Swabbed 2 hrs; rec 35 BW w/sli trace of oil. FL-3800'. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/8/78 SITP-125 psi; FL-1200'. Swabbed 9 hrs; rec 10 BO, 100 BW w/slite gas blow. FL-5200'. CIWSDFN

7/9/78 SITP-125 psi; FL-3100'. Swabbed 10 hrs; rec 20 BO, 100 BW w/slite gas blow. FL-5000'. CIWSDFN

7/10/78 SDFS

UPRR #19-2  
Summit Co., Utah

7/11/78 (Twin Creek perms 10,570-660' & 10,485-518') RU Dowell. Acdzd as follows: (1) 59 bbls 15% HCl, (2) 15 bbls 2% KCl wtr w/750# BAF & 40 ball sealers, (3) repeated steps 1 & 2 twice, (4) 59 bbls 15% HCl, (5) flushed w/65 bbls lease crude. Total load-346 bbls. Max press-5500 psi; aver press-4400 psi; rate 11½ BPM; ISIP-2800 psi, 15 min SIP-1800 psi. RD Dowell. Flowed 1½ hrs; rec 15 BO; swabbed 6 hrs; rec 3 BO, 110 BW. FL-1900'. Load to rec-228 bbls. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/12/78 (Twin Creek perms 10,570-660', 10,485-518') SITP-175 psi; FL-1550'. Swabbed 11 hrs; rec 10 BO, 180 bbls G/C/W; FL-2500'. Load to rec-38 bbls. Water analysis: Chl's-58,000 ppm; pH-6.

UPRR #19-2  
Summit Co., Utah

7/13/78 SITP-175, SICP-200; FL-1750'. Swabbed 10½ hrs; rec 45 BO, 160 BW; FL-2500'. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/14/78 (Twin Creek perms 10,570-660, 10,485-518') SITP-150 psi; FL-2500'. Swabbed 10½ hrs; rec 20 BO, 133 BW; FL-2800'. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/15/78 (Twin Creek perms 10,485-518' & 10,570-660') SITP-125 psi. Bled off press; rlsd pkr. RIH; tagged BP. Set pkr; tested plug to 1500 psi. Rlsd & reset pkr @ 10,558'. Swabbed 5 hrs; rec 3 BO, 66 BW; FL-2500'. CIWSDFN

7/16/78 SITP-100 psi; FL-1400'. Swabbed 10½ hrs; rec 15 BO, 150 BW w/slite amt gas; FL-1600'. CIWSDFN

7/17/78 SDFS

UPRR #19-2  
Summit Co., Utah

7/18/78 (Twin Creek perms 10,485-518, 10,570-660') Rlsd pkr. POH. Ran 7" Loc-Set RBP & Retrievmatic pkr on 166 jts 2 7/8" tbg. BP set going in hole; PU, lost string wt. POH 20 jts tbg. Pin pulled out of box @ 610'. 2 7/8" 6.5# N80 DSS box looking up. RIH. Tagged fish; POH.

UPRR #19-2  
Summit Co., Utah

7/19/78 (Twin Creek perfs 10,485-518, 10,570-660') RIH w/5 3/4" overshot, latched onto fish, rlsd pkr. POH. Rec entire fish. Investigation revealed cause of pkr malfunction. Redressed pkr

& BP. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/20/78 (Twin Creek perfs 10,485-518, 10,570-660') Ran RBP & pkr on 344 jts 2 7/8" tbg. Set RBP @ 10,535'. Set pkr @ 10,462'. Swabbed 2 hrs; rec 1 BO, 11 BW; FL-7000'. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/21/78 (Twin Creek perfs 10,485-518, 10,570-660') SITP-0. FL-6500'. Swabbed 2 hrs; rec 6 BW. Knuckle jt split, dropped swab mandril, swab cups in tbg. Replaced mandril; swabbed 2 hrs; rec 10 BW; FL-9400'. Swab hung up @ 10,000'. Split ball jt on mandril, dropped mandril swab cups. Began loading hole to pull tbg. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/22/78 (Twin Creek perfs 10,485-518, 10,570-660') SITP-0. Loaded tbg. POH w/pkr. Rec all lost tools. CIWSDFN

7/23/78 RU Petrolog; ran gage ring, junk sub. Tagged RBP @ 10,528'. Perfd 10,440-70' (30') 2 spf w/4" csg gun. PU 7" retrievomatic pkr. Rabbited & ran 341 jts 2 7/8" tbg. Set pkr @ 10,525'. Attempted to press test RBP w/80 bbls treated wtr. Rlsd pkr & RIH to find RBP @ 10,694'. Unable to latch onto RBP. CIWSDFN

7/24/78 SDFS

UPRR #19-2  
Summit Co., Utah

7/25/78 (Twin Creek perfs 10,485-518, 10,570-660') Circ on RBP 30 min. Latched onto RBP & POH. Plug inoperative; pkg element activated, slips retracted. Started in hole w/new RBP & redressed

pkr. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/26/78 FIH w/RBP & pkr. Set BP @ 10,545'. Set pkr. Tested BP to 1500 psi for 15 min; OK. Reset pkr @ 10,265' w/20,000# wt. Tested annulus to 800 psi for 15 min; OK. Swabbed 5 hrs; rec 46

BLW. Final FL-8300'. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/27/78 SITP-0; FL-8250'. Swabbed 2 hrs; rec 5 BLW; FL-9000'. Loaded tbg w/wtr. Attempted to pmp into formation @ 1900 psi w/rig pmp. Very slow leak off. Swabbed 2 hrs; rec 45 BLW; FL-7000'. RU BJ to acdz perfs 10,485-518 & 10,440-70'. Press annulus to 1500 psi. Acdz as follows: 3500 gal 15% HCl, 15 bbls 2% KCl wtr w/350# BAF, 3000 gal 15% HCl, 15 bbls 15% KCl wtr w/400# BAF, 1500 gal 15% HCl. Flushed w/99 bbls lease crude. Max press-6250 psi; aver press-5750 psi; aver rate-8.5 BPM. ISIP-2200 psi; 15 min SIP-1250 psi. Good breaks w/divertor of 300 to 400 psi on both stages. 319 BLW & 99 BLO to rec. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/28/78 (Twin Creek perfs 10,440-70, 10,485-518') SITP-725 psi Flowed 3 hrs; rec 30 BO, 110 BW. FL-2100'. Load to rec-139 bbls. CIWSDFN

UPRR #19-2  
Summit Co., Utah

7/29/78 (Twin Creek perfs 10,440-70, 10,485-518') SITP-150 psi; FL 1400'. Swabbed 11 hrs; rec 8 BO, 180 BW. FL-2800'. CIWSDFN

7/30/78 SITP-180 psi; FL-1800'. Swabbed 10 hrs; rec 19 BO, 169 BW; FL-3900'. CIWSDFN

7/31/78 SDFS

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

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

1588 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 328-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

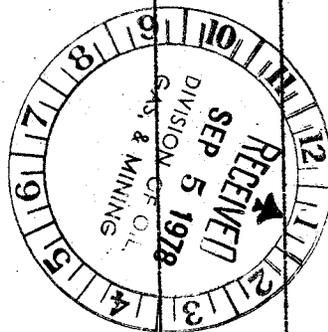
STATE Utah COUNTY Summit FIELD/LEASE Pineview

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
July, 19 78

Agent's Address 707 United Bank Tower  
1700 Broadway  
Denver, CO 80290  
 Phone No. (303) 861-8437

Company Mexico American Quasar Petroleum Co. of New  
 Signed R. F. Pezney  
 Title Oil Prod Superintendent

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; data and result of test for gasoline content of gas)
UPRR Sec. 19 SW NW	1N	7E	19-2							See attached



Gas Sold \_\_\_\_\_  
 Flared/Vented \_\_\_\_\_  
 Used on/off Lease \_\_\_\_\_

NOTE: There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M. cu. ft. of gas sold;  
 \_\_\_\_\_ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. THIS REPORT MUST BE FILED IN DUPLICATE.

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

5. LEASE DESIGNATION AND SERIAL NO.

Champlin UPRR Fee Pooled

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

UPRR

9. WELL NO.

19-2

10. FIELD AND POOL, OR WILDCAT

Ekthorn

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

19-2N-7E

12. COUNTY OR PARISH  
Summit

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  
American Quasar Petroleum Co. of New Mexico

3. ADDRESS OF OPERATOR  
707 United Bank Tower, 1700 Broadway, Denver, CO 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface  
660' FWL, 1980' FNL (SW NW)  
At top prod. interval reported below  
  
At total depth

14. PERMIT NO. 43-043-30068 DATE ISSUED 11-8-77

15. DATE SPUDDED 2-4-78 16. DATE T.D. REACHED 6-3-78 17. DATE COMPL. (Ready to prod.) 2-20-79 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6880' GR 19. ELEV. CASINGHEAD -----

20. TOTAL DEPTH, MD & TVD 11,419' 21. PLUG, BACK T.D., MD & TVD 10,540' 22. IF MULTIPLE COMPL., HOW MANY\* ----- 23. INTERVALS DRILLED BY ----- ROTARY TOOLS 0-TD CABLE TOOLS -----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
10,485-10,518', 10,440-10,470', 10,138-10,394' (Twin Creek) 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLL, Sonic GR, FDC-CNL, Caliper, Dipmeter 27. WAS WELL CORED No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
24"		85'		cond. csg.	None
9 5/8"	36, 40#	1,915'	12 1/4"	1225 sx	None
7"	32, 23#	11,419'	8 3/4"	1000 sx	None

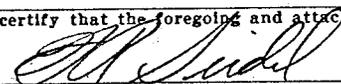
29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	10,530'	---

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

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
8-10-78		Pumping 2 1/2" x 1 1/2" x 18' x 25'				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
2-20-79	24		→	62	74	195	1200
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→	62	74	195	43.1	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Sale--Mountain Fuel TEST WITNESSED BY Delmar Chapman

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED  TITLE Division Operations Manager DATE 2-26-79

# INSTRUCTIONS

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

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

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

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

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP
DST #1	10-380'	10,595'	w/no WC; TO 60" w/wk blow, incr to good blow in 5"; remaining constant thruout; SI 90"; rec 1980' fluid--7% oil, 60% gas, 33% drlg mud; IHP-6228, IFP-1875/2101; FSIP-4743; FHP-5928	Echo Wanship Frontier Aspen Bear River Kelvin Stump Preuss Twin Creek Nugget	100 720 1,920 3,548 3,892 4,140 6,840 7,470 9,652 11,126	
DST #2	10,592'	10,791'	w/no WC; TO 5" w/wk blow, incr to fair in 5"; rotated thru ISI into 2nd open; TO 60" w/good blow; SI 90"; rec 1080' fluid consisting of 1000' O&G/C/M + 80' W/C/M. IHP-6069; IFP-533/533; FFP-693/693; FSIP-4416; FHP-5882			
DST #3	11,160'	11,237'	w/no WC; TO 10" w/sli blow; SI 60"; TO 60" w/sli blow; SI 120"; misrun; rec 598' hvy drlg mud; no press recorded			

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

38. GEOLOGIC MARKERS

ATTACHMENT

COMPLETION REPORT

UPRR 19-2

31. Perfd 10,744-10,774' 2 spf w/4" csg gun  
Perfd 10,570-10,660' 1 spf w/4" csg gun  
10,485-10,518' 2 spf w/4" csg gun  
10,440-10,470' 2 spf w/4" csg gun  
10,691-10,696' 1 spf w/4" csg gun  
10,138-10,394 (11 holes) w/4" csg gun
32. Acdzd 10,744-10,774'-- 2500 gals 15% HCl, flushed w/75 bbls 1se crude.  
Acdzd 10,744-10,774'-- 172 bbls 28% HCl, 74 bbls YF4G pad, 200 bbls YF4G pad w/  
2 ppg 100 mesh sd, 120 bbls 1se wtr w/750# BAF & 40 ball  
sealers; flushed w/80 bbls 1se crude  
Acdzd 10,570-10,660'-- 177 bbls 15% HCl, 30 bbls 2% KCl wtr w/75# BAF & 40 ball  
10,485-10,518' sealers; flushed w/65 bbls 1se crude  
Acdzd 10,485-10,518'-- 8000 gals 15% HCl, 15 bbls 2% KCl wtr w/350# BAF, 15 bbls  
10,440-10,470' 15% KCl wtr w/400# BAF; flushed w/99 bbls 1se crude  
Sqzd 10,570-10,660' w/125 sx Class G  
Acdzd 10,485-10,518'-- 8000 gals 15% HCl, 15 bbls 2% KCl wtr w/300# BAF, 15 bbls  
10,440-10,470' 2% KCl wtr w/400# BAF; flushed w/96 bbls 1se crude  
Acdzd 10,138-10,394'-- w/6000 gals 28% HCl w/20 ball sealers dropped every 200  
gals, balled out w/110 bbls acid in formation; flushed  
w/70 bbls formation wtr.



# AMERICAN QUASAR PETROLEUM CO. OF NEW MEXICO

707 UNITED BANK TOWER, 1700 BROADWAY, DENVER, COLORADO 80290, U.S.A.  
TELEPHONE (303) 861-8437

State of Utah  
Natural Resources and Energy  
4241 State Office Building  
Salt Lake City, Utah 84114

Subject: Well # UPRR # 19-2  
Summit County, Utah

Gentlemen:

We would appreciate your acknowledging receipt of the enclosed form  
# OGC-16, Lundry Notice covering the above mentioned  
well.

A self-addressed envelope is included for your convenience.

Very truly yours,

*James T. Brown*

James T. Brown  
Division Production Manager

MM:sb  
encl.

State of Utah

Received, date 4-6-83

By Lari Furse Title Well Records Spec.

**RECEIVED**  
APR 04 1983

DIVISION OF  
OIL, GAS & MINING

7

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

5. LEASE DESIGNATION AND SERIAL NO. Champlin UPRR Fee Pooled
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME UPRR
9. WELL NO. 19-2
10. FIELD AND POOL, OR WILDCAT Elkhorn
11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 19, T2N-R7E
12. COUNTY OR PARISH   13. STATE Summit   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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER TA
2. NAME OF OPERATOR American Quasar Petroleum Co.
3. ADDRESS OF OPERATOR 707 United Bank Tower, 1700 Broadway Denver, Colorado 80290
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL, 1980' FNL (SW NW)
14. PERMIT NO. 43-043-30068
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6880' GR

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

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

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

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

Pulled rods and pump, closed well in 8/20/79.  
Holding for possible saltwater disposal.

RECEIVED  
APR 04 1983

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED James T. Brown TITLE Division Production Manager DATE 3/23/83  
(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
UPRR

9. WELL NO.  
19-2

10. FIELD AND POOL, OR WILDCAT  
Elkhorn-Twin Creek

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
Sec 19, T2N-R7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
American Quasar Petroleum Co.

3. ADDRESS OF OPERATOR  
1700 Broadway, #707, Denver, CO 80290

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
660' FWL, 1980' FNL (SW NW)

14. PERMIT NO.  
43-043-30068

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6880' GR

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

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

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

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

August 20, 1979 well SI.  
Pulled rods & pmp.  
Plan to P&A.

**RECEIVED**  
AUG 27 1984  
DIVISION OF OIL  
GAS & MINING

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

SIGNED John D. Nolan TITLE Div. Prod. Mgr. DATE 8/21/84

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR American Quasar Petroleum Co.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1700 Broadway, Suite 707, Denver, CO 80290		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL, 1980' FNL (SW NW)		8. FARM OR LEASE NAME UPRR
14. PERMIT NO. 43-043-30068	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6880' GR	9. WELL NO. 19-2
		10. FIELD AND POOL, OR WILDCAT Elkhorn
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 19, T2N-R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

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

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

(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.)\*

- Plug and abandon well as follows:
1. Pump 100 sx plug and sqz Twin Creek perms.
  2. Spot 100' plug ~~1850-1950'~~ (20 sx). 7000' - 7100'.
  3. Cut wellhead. 10 sx surface plug. Install dryhole marker.
  4. Reclaim location.

*Conditions of approval's*

- ① Squeeze 10 sx surface plug between 7" and 9 5/8" casing strings.
- ② Perforate 7" casing at 1900' and squeeze perms with 25 sx cement to be placed behind 7" casing.

**RECEIVED**  
**SEP 17 1984**  
DIVISION OF OIL  
GAS & MINING

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

SIGNED John D. Nolan TITLE Division Production Manager DATE 9/11/84

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

DATE: 9/21/84  
BY: John P. Day

\*See Instructions on Reverse Side

JDA 6/11/84

WYRR 19-2

LOCATION: 660' FWL, 1980' FNL SEC 19, T2N, R7E

SUMMIT: CO. UTAH

ELEVATIONS: 6721', 6736 KB.

24" CONDUITOR AT 85' CMT TO SURF.

SPLID: 2/4/78 7:30PM TUBE #14 (KB 16.8')

9 5/8", 36 #4 40#, K-55, ST 1/2 C & 1 1/2 C CSA 1915 (KB) 1225 SX TO SURF

43 SHEETS 5 SQUARE  
42 SHEETS 5 SQUARE  
42 SHEETS 5 SQUARE  
42 SHEETS 5 SQUARE  
NATIONAL

7100'  
CMT TOP  
8750'  
SALT  
9550?

2 7/8" TUBING  
132 JTS 6.5# N-80 BRD  
158 JTS 6.5# N-80 CS HYDRIL

2.290 SN

BANKER HATCHER CATCHER @ 8922 (KB) w/ 10,000# TENSION

TWIN CREEK PERFS

15PF @ 10,138; 10,182; 10,191; 10,208; 10,260; 10,275;  
10,291; 10,327; 10,338; 10,383; 10,394

10,440-470' (25PF)

10,485-518' (25PF)

CICR 10,540'  
10,570-660 (15PF) } SQ w/ 125 SX  
CICR 10,670 } SQ w/ 100 SX  
10,691-96 SQ PERFS

CIBP @ 10,700' w/ 1 1/2 SX CMT.

10,744-74 (25PF) RICH

PBTD 11370

7" CSA 11,419' w/ 1000 SX

7" CASING ALL LT 1/2 C

JTS	WT	GRD	FROM	TO
60	32	S-95	SURF-2606'	
68	23	S-95	2606'-5343'	
122	23	U-80	5343'-10,343'	
26	23	S-95	10,343'-11,419'	

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

SUBMIT IN TRIPLICATE\*  
(ions on  
e)

4  
5

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. <input checked="" type="checkbox"/> OIL WELL    <input type="checkbox"/> GAS WELL    <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Champlin Petroleum Company</p> <p>3. ADDRESS OF OPERATOR PO box 700, Rock Springs, Wyoming 82902</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface</p>	<p>5. LEASE DESIGNATION AND SERIAL NO.</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME UPRR</p> <p>9. WELL NO. 19-2</p> <p>10. FIELD AND POOL, OR WILDCAT Elkhorn</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 19 2N 7E</p> <p>12. COUNTY OR PARISH Summit</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO.</p> <p>15. ELEVATIONS (Show whether DF, RT, OR, etc.)</p>	

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

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

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

Effective April 1, 1985, Champlin Petroleum Company will assume operation of the Elkhorn Field, Summit County, Utah, from American Quasar Petroleum Company. All further correspondence should be addressed to:

Champlin Petroleum Company  
PO Box 700  
Rock Springs, Wyoming 82902

The following wells are included in the Elkhorn Field, Summit County, Utah:

<u>API</u>	<u>WELL</u>	<u>LOCATION</u>
43043 30047	UPRR 19-1	SW NE Sec 19, T2N, R7E
43043 30068	UPRR 19-2	SW NW Sec 19, T2N, R7E

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

SIGNED: S.M. Schram    TITLE: Production Superintendent    DATE: March 27, 1985

(This space for Federal or State office use)

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

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

\*See Instructions on Reverse Side

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

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

4  
5

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Champlin Petroleum Company Attention: Dave Petrie		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 700, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  660 FWL, 1980' FNL, (SWNW)		8. FARM OR LEASE NAME UPRR
14. PERMIT NO.		9. WELL NO. 19-2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6880 GR		10. FIELD AND POOL, OR WILDCAT Elkhorn
DIVISION OF OIL GAS & MINING		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

RECEIVED  
AUG 12 1985

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

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

(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.)\*

Plug and Abandonment Procedure

1. Spot 300' plug from 10,100' - 9,800'
2. Spot 300' plug from 7,400' - 7,100'
3. Free-point and cut 7" casing. (Cement top 7,100')
4. Spot 200' half in half out of 7" casing stub.
5. Spot 200' plug across casing shoe @ 1915'
6. Set 50' surface plug, weld steel plate over casing stub, install dry hole marker and reclaim location.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 8/14/85  
BY: John K. Day

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

SIGNED D. S. Petrie by D. S. Petrie TITLE Engineering Assistant DATE 8/8/85

(This space for Federal or State office use)

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



A Subsidiary of Union Pacific Corporation

### INTER-OFFICE CORRESPONDENCE

TO: R. H. Taylor *RH/T*  
FROM: T. A. Belisle  
SUBJECT: UPRR 19-2  
ABANDONMENT PROCEDURE  
SUMMIT COUNTY, UTAH

OFFICE: Rock Springs  
DATE: Aug. 2, 1985

Note: Notify State Oil & Gas Commission 24 hours before moving in and cementing. Dorothy Swindle 538-5315 (State Inspector)

1. Test deadman anchors.
2. MIRU service unit w/mud pump and pit.
3. Blow well down. Install 6" x 5000 psi BOPE.
4. Circulate well bore with 8.6 + ppg drilling mud.  
Note: 285 jts 2 7/8" 6.5# N-80 tbg in well.
5. Release anchor, pull and lay down 2 7/8" tbg.
6. Pick up 2 7/8" work string. RIH to 10,100'. Condition Mud.
7. R/U cementer. Balance 300' cement plug from 10,100' to 9800' and 7400' to 7100' and TOH.
8. Blow down 7" x 9 5/8" annulus. ND BOPE.
9. Weld on pull sub unland casing.  
Note: Casing jacks may be needed to unland and pull casing initially.
10. R/U wireline. Locate freepoint. Cut casing.  
Note: Cement top at 7100'.
11. Pull and lay down free 7" casing.
12. NU BOPE. Run open ended tubing 100' inside 7" casing stub.  
Balance 200' cement plug across 7" stub.
13. TOH to 2015' balance 200' cement plug across surface casing shoe at 1915'.
14. TOH L/D tbg. ND BOPE. Cut off casing head.
15. Set 50' surface plug.
16. Weld steel plate over casing stub. Install dry hole marker.  
Reclaim location.

RECEIVED

AUG 12 1985

DEPARTMENT OF OIL  
& MINING

WELL 15-2  
 SECTION 20, T1N, R1E  
 Summit Co. Ohio

DEPTHS: 6701', 6722' KB.

34" CUMULATIVE FT 63' CUMULATIVE

DEPTH: 24475' (KIDNEY) TRUE 14' (KIDNEY)

9 5/8", 3 1/2" 440', K-55, STS, CS# 1915 (KB) 1225' TO SURF



2 7/8" TUBING

132 JTS 6.5" N-80 8FD  
 153 JTS 6.5" N-90 CS HAZEL  
 285

2.290 SN

WATER FROM CATCHER @ 8922' (KB) w/ 10,000' TUBING

TUBING PIPER PERFS

15PF @ 10,122; 10,152; 10,191; 10,208; 10,255; 10,275;  
 10,291; 10,327; 10,358; 10,373; 10,374

10,440-470' (25PF)

10,485-518' (25PF)

CS# 10,540'  
 10,570-600' (12PF) - 22 w/ 1250'X  
 CS# 10,670'  
 10,691-94 20 PF PERFS - 2000 w/ 1000'X  
 CS# @ 10,720' w/ 1 1/2" CS#

10,744-74' (25PF) PER

2270 11275

7" CS# 11,419' w/ 10000'X

7" COIL TUBING PERFS

JTS	WT	GPS	FROM	TO
60	32	S-95	5074'	2656'
63	23	S-95	5206'	5343'
162	23	U-80	5343'	10,343'
26	23	S-95	10,343'	11,419'



A Subsidiary of  
Union Pacific Corporation

**RECEIVED**

August 9, 1985

Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

**AUG 12 1985**

**DIVISION OF OIL  
GAS & MINING**

Attention: John Baza

RE: PLUG & ABANDONMENT OF SEVEN WELLS IN SUMMIT COUNTY, UTAH

Please find attached Sundry notices, revised procedures, well diagrams and copies of the previous notices for the following wells:

UPRR 19-1	Summit County, Utah
UPRR 19-2	Summit County, Utah
UPRR 9-1	Summit County, Utah
UPRR 9-2	Summit County, Utah
Bingham 2-5	Summit County, Utah
Pineview 4-7S	Summit County, Utah
Newton Sheep 4-9S	Summit County, Utah

Verbal approval was received on 8/6/85 to move in on the first well in the series (UPRR 19-1) on 8/8/85. With your approval, work will continue on the above wells in the order that they are listed. I'll call you on Monday, 8/12/85, to discuss the next well to be worked on, UPRR 19-2. If you have any questions, please don't hesitate to call me at (307) 362-5641.

Yours very truly,

T. A. Belisle  
Drilling Superintendent

TAB/dc

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPL  
(Other instructions re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		<b>RECEIVED</b>  OCT 18 1985  DIVISION OF OIL GAS & MINING		5. LEASE DESIGNATION AND SERIAL NO.	FEE
2. NAME OF OPERATOR CHAMPLIN PETROLEUM COMPANY				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR P.O. Box 700, Rock Springs, WY 82902				7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL, 1980' FNL (SW NW)				8. FARM OR LEASE NAME UPRR	
14. PERMIT NO. 43-043-30068		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6721' GR 6736' KB		9. WELL NO. 19-2	
				10. FIELD AND POOL, OR WILDCAT Elkhorn	
				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T2N, R7E	
				12. COUNTY OR PARISH Summit	13. STATE Utah

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

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

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

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

Cancel NIA for above well dated 08-08-85

SI well through May 1986 to evaluate for workover potential.

Sundry Notice will be submitted when plans are finalized.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 10/13/85  
BY: John R. Bay

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

SIGNED J. B. Hume TITLE District Engineer DATE 10-11-85  
J. B. Hume  
 (This space for Federal or State office use)

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

\*See Instructions on Reverse Side

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

090415

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR CHAMPLIN PETROLEUM COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. BOX 700, ROCK SPRINGS, WY		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.* At surface 660' FWL, 1980' FNL (SW NW))		8. FARM OR LEASE NAME UPRR
14. PERMIT NO. 43-043-30068		9. WELL NO. 19-2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6721' GR 6736' KB		10. FIELD AND POOL, OR WILDCAT ELKHORN
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 19, T2N, R7E
		12. COUNTY OR PARISH SUMMIT
		13. STATE UTAH

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

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

(Other) Continue Engineering Evaluation

(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.)\*

Permission is hereby requested to allow the well to remain shut-in through June of 1987. The well has limited potential under current economic conditions. Options including further testing, a workover or plugging and abandonment will be re-evaluated as the economic climate changes.

RECEIVED  
AUG 29 1986

DIVISION OF  
OIL, GAS & MINING

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

SIGNED J. B. Hume TITLE District Engineer DATE 08-25-86  
K. J. Nesch, J. B. Hume

(This space for Federal or State office use)

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

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

SUBMIT TRIPPLICATE\*  
(Other instructions on reverse side)

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. FEE
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR CHAMPLIN PETROLEUM COMPANY		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR P.O. BOX 700, ROCK SPRINGS, WY 82902		8. FARM OR LEASE NAME UPRR
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 660' FWL, 1980' FNL (SW NW)		9. WELL NO. 19-2
14. PERMIT NO. 43-043-30068		10. FIELD AND POOL, OR WILDCAT ELKHORN
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6721' GR 6736' KB		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 19, T2N, R7E
		12. COUNTY OR PARISH SUMMIT
		13. STATE UTAH

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

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

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

Permission is hereby requested to allow the well to remain shut-in through June of 1987. The well has limited potential under current economic conditions. Options including further testing, a workover or plugging and abandonment will be re-evaluated as the economic climate changes.

RECEIVED

AUG 29 1986

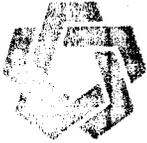
DIVISION OF  
OIL, GAS & MINING

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

SIGNED <u>J. B. Hume</u> K. J. Nosich, J. B. Hume	TITLE <u>District Engineer</u>	DATE <u>08-25-86</u>
(This space for Federal or State office use)		

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

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norton F. Sangatter, Director  
Dale C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 2, 1986

Mr. J. B. Hume  
Champlin Petroleum Company  
P.O.Box 700  
Rock Springs, WY 82902

Dear Mr. Hume:

RE: UPRR Well No. 19-2, Sec.19, T.2N, R.7E, Summit County, Utah

The Division of Oil, Gas and Mining recently received your Sundry Notice dated August 25, 1986, which requested permission to maintain the subject well in a shut-in status. This letter is to inform you that the Division has no rule regulating when the operator may shut-in a well on a private lease. You are not required to obtain permission from this office in order to place a well in shut-in status and there is no time limit that a well may remain in such a status other than any special stipulations of the individual lease.

Your submitted notice of the shut-in status of the well is required by rule and is very much appreciated as it allows us to properly maintain our well records. We request that you continue to provide us with such notice in the future. The Division will take no administrative action with notices of well shut-in, but notices which are received will be included in our well files.

Please note that special stipulations of lease agreements for both public and private lands may require that the well be produced in order to validate the lease. You are still bound by such agreements and you are encouraged to refer to the lease requirements before taking action to shut-in the well.

Sincerely,

John R. Baza  
Petroleum Engineer

cc: D.R.Nielson  
R.J.Firth  
Well file ✓  
0288T-94



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

## MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

● CHAMPLIN PETROLEUM CO.  
P O BOX 700  
ROCK SPRINGS WY 82902  
ATTN: BETTY OLSON

Utah Account No. NO200  
Report Period (Month/Year) 5 / 87  
Amended Report

Well Name				Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location	Oil (BBL)			Gas (MSCF)	Water (BBL)	
X 4304330031	02095	02N 07E 3	WTCYN					
X 4304330036	02105	02N 07E 3	NGSD					
X 4304330036	02105	02N 07E 3	TWNCR					
X 4304330120	02110	02N 07E 3	STUMP					
X 4304330151	02115	02N 07E 3	TWNCR					
X 4304330068	02140	02N 07E 19	TWNCR					
X 4304330115	02145	02N 07E 4	STUMP					
X 4304330116	02160	02N 07E 4	TWCRI					
X 4304330103	02165	02N 07E 4	STUMP					
X 4304330026	02170	02N 07E 2	NGSD					
X 4304330125	02175	02N 07E 2	NGSD					
X 4304330028	02180	02N 07E 2	NGSD					
X 4304330033	02185	02N 07E 2	NGSD					
<b>TOTAL</b>								

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

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

*us*

A Subsidiary of  
Union Pacific Corporation

May 29, 1987

**RECEIVED**  
JUN 01 1987

060817

DIVISION OF  
OIL, GAS & MINING

Department of Natural Resources  
Division of Oil, Gas & Mining  
State of Utah  
355 North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

Re: Bond Nos. 951566 and 2447222

Gentlemen:

As of May 1, 1987, Champlin Petroleum Company was reorganized and its name was changed to Union Pacific Resources Company. Attached herewith you will find a copy of the following:

- 1 - "Bond Rider" reflecting the name change.
- 2 - Certificate of Amendment and Acknowledgement, State of Delaware.

If you should have any questions, please do not hesitate to contact the undersigned.

Sincerely,



Edward Robert  
Insurance Coordinator

ER:vp-9

Attachment

**TATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<b>1. WELL TYPE</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Shut-in Oil Well		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> 092517
<b>2. NAME OF OPERATOR</b> Union Pacific Resources Company		<b>7. UNIT AGREEMENT NAME</b> -
<b>3. ADDRESS OF OPERATOR</b> P. O. Box 700, Rock Springs, WY 82902-0700		<b>8. FARM OR LEASE NAME</b> UPRR
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  SWNW, 660' FWL, 1980' FNL		<b>9. WELL NO.</b> 19-2
<b>14. PERMIT NO.</b> 43-043-30068		<b>10. FIELD AND POOL, OR WILDCAT</b> Elkhorn Field
<b>15. ELEVATIONS</b> (Show whether DF, RT, OR, etc.) KB: 6636' GL: 6721'		<b>11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA</b> Sec. 19, T2N, R7E
		<b>12. COUNTY OR PARISH</b>   <b>13. STATE</b> Summit   Utah

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

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

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

The following is a revised P & A procedure based on State of Utah conditions of approval and the phone conversation with Mr. John Baza on September 9, 1987.

Plug and abandon the subject well as follows (wellbore diagram attached):

1. MIRUSU.
2. Release tubing anchor. TOOH, LD anchor.
3. TLH. Spot 300' cement plug from 10,100 to 9800' (Tight spot in casing so no CICR).
4. Spot 300' cement plug from 7800' to 7500'.
5. Release casing slips.
6. Free point and cut 7" casing. If free point is below Stump top (6840'), casing will be cut, at free point and a 200' balanced plug will be set across Stump top. If free point is above Stump top, the casing will be cut at free point and a 200' plug will be set across casing stub.
7. Pull and LD 7" casing.
8. Set 200' cement plug across casing stub.
9. Set 200' cement plug across surface casing shoe at 1915'.
10. Set 100' cement plug to surface.
11. RDMSU. Cut off casing head.
12. Set regulation P & A marker.
13. Reclaim location

Operations should commence in Sept. 1987. Verbal notification will be given at least 48 hrs. prior to plugging when the actual date is known.

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

SIGNED Ted D. Brown/KDN TITLE District Engineer DATE 9-14-87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ APPROVED BY THE STATE

CONDITIONS OF APPROVAL, IF ANY:

**OF UTAH DIVISION OF OIL, GAS, AND MINING**

\*See Instructions on Reverse

DATE: 9-23-87  
 BY: John R. Baza

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Shut-in Oil Well		5. LEASE DESIGNATION AND SERIAL NO. <i>Fee</i>
2. NAME OF OPERATOR Union Pacific Resources Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>090403</b>
3. ADDRESS OF OPERATOR P. O. Box 700, Rock Springs, WY 82902-0700		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SWNW, 660' FWL, 1980' FNL		8. PARAM OR LEASE NAME UPRR
14. PERMIT NO. 43-043-30068	15. ELEVATIONS (Show whether DF, RT, OR, etc.) KB: 6636' GL: 6721'	9. WELL NO. 19-2
		10. FIELD AND POOL, OR WILDCAT Elkhorn Field
		11. SEC., T., R., M., OR DLEK. AND SURVEY OR AREA Sec. 19, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

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

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

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

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

Plug and abandon the subject well as follows (wellbore diagram attached):

1. MIRUSU
2. Release tubing anchor. TOOH, LD anchor.
3. TLH. Spot 300' cement plug from 10,100 to 9800' (Tight spot in casing so no CICR).
4. Spot 300' cement plug from 7800' to 7500'.
5. Release casing slips.
6. Free point and cut 7" casing.
7. Pull and LD 7" casing.
8. Set 200' cement plug across casing stub.
9. Set 200' cement plug across surface casing shoe at 1915'.
10. Set 100' cement plug to surface.
11. RDMSU. Cut off casing head.
12. Set regulation P & A marker.
13. Reclaim location.

Operations should commence in September, 1987. Verbal notification will be given when the actual date is known.

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

SIGNED James B. Hume TITLE District Engineer DATE 8/17/87  
James B. Hume/DRE

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 9-3-87

CONDITIONS OF APPROVAL, IF ANY:

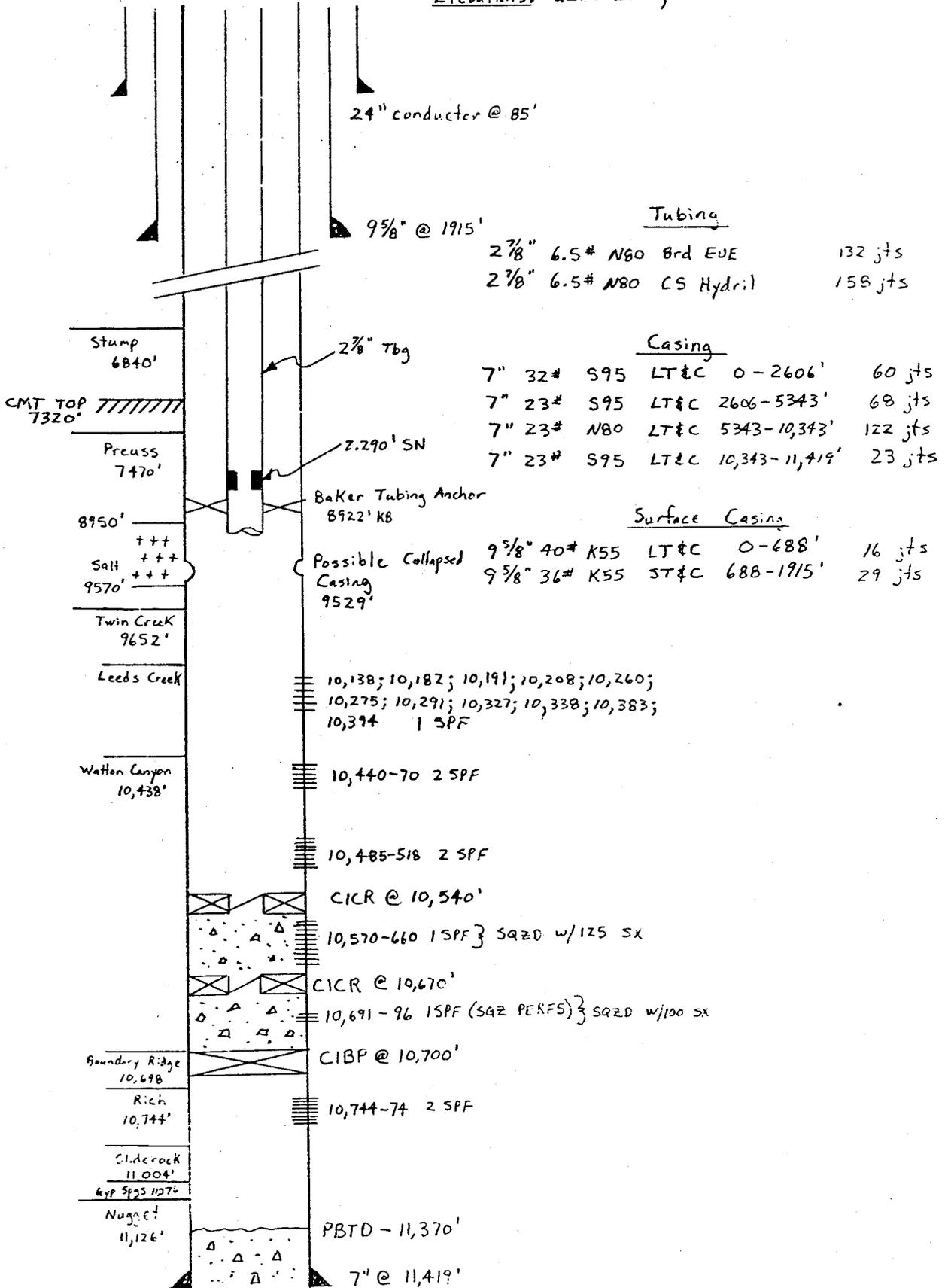
1. In step 6, the casing shall be cut at a depth not lower than the top of the Stump formation.
2. The Division shall receive verbal notification at least 48 hours prior to commencing operations.

\*See Instructions on Reverse Side

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 BY: John R. Bay

ELKHORN 19-2

Location: Sec 19, T2N, R7E, Summit Count., Utah  
 Elevations: GL: 6721', KB: 6736'



Tubing

2 7/8" 6.5# N80 Brd EVE	132 jts
2 7/8" 6.5# N80 CS Hydril	158 jts

Casing

7" 32# S95 LT&C 0-2606'	60 jts
7" 23# S95 LT&C 2606-5343'	68 jts
7" 23# N80 LT&C 5343-10,343'	122 jts
7" 23# S95 LT&C 10,343-11,419'	23 jts

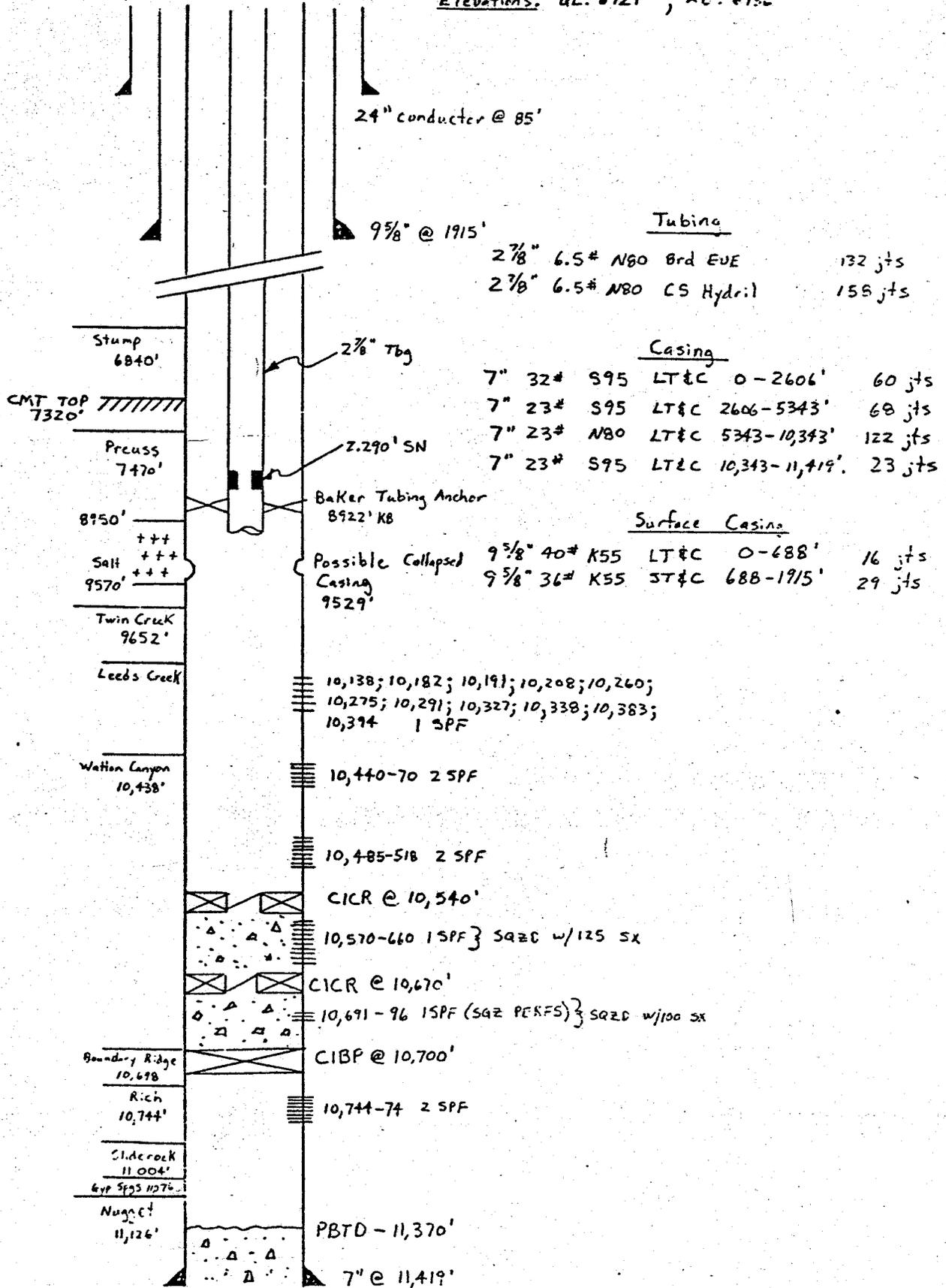
Surface Casings

9 5/8" 40# K55 LT&C 0-688'	16 jts
9 5/8" 36# K55 ST&C 688-1915'	29 jts

\* NO SCALE

ELKHORN 19-2

Location: Sec 19, T2N, R7E, Summit Count., Utah  
Elevations: GL: 6721', K6: 6736'



\*NO SCALE

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Shut-in oil well		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Union Pacific Resources Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 700, Rock Springs, WY 82902		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17, below.) At surface SW NW, 660' FWL, 1980' FNL		8. FARM OR LEASE NAME UPRR
14. PERMIT NO. 43-043-30068		9. WELL NO. 19-2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6636' KB		10. FIELD AND POOL, OR WILDCAT Elkhorn - Twin Creek
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T2N, R7E
		12. COUNTY OR PARISH Summit
		13. STATE Utah

RECEIVED  
JUN 13 1988

DIVISION OF  
OIL, GAS & MINING

COPY

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

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

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

Referencing the notice of intention to abandon the subject well dated 9/14/87, Union Pacific Resources hereby requests permission to leave the well in a shut-in status pending possible future conversion to a saltwater disposal well. Exxon Company, USA has expressed an interest in utilizing the wellbore at a later date. A Sundry will be submitted if a SWD conversion and/or change of ownership materializes.

COPY

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

SIGNED Keith J. Nostich TITLE Petroleum Engineer DATE 6/10/88

(This space for Federal or State office use)

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

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

DATE: 6-16-88  
BY: [Signature]  
\*See Instructions on Reverse Side

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work  
 Re-DRILL  Horizontal DEEPEN  PLUG BACK

b. Type of Well  
 Oil Well  Gas Well  Other Horizontal Single Zone  Multiple Zone

2. Name of Operator  
 UNION PACIFIC RESOURCES COMPANY (817) 877-7956

3. Address of Operator  
 801 Cherry Street, Ft. Worth, TX 76102

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 SHL = 660' FWL & 1980' FNL Sec. 19-T2N-R7E  
 At proposed prod. zone  
 BHL = 1530' FEL & 1770' FNL Sec. 19-T2N-R7E

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

5. Lease Designation and Serial No.  
Land Grant Section *tee*

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

7. Unit Agreement Name  
 API #43-043-30068

8. Farm or Lease Name  
 ELKHORN ~~19-22-R~~ *JAM*

9. Well No.  
 #1H-UPRR-19-2 *JAM*

10. Field and Pool, or Wildcat  
 ELKHORN/WATTON CANYON

11. QO, Sec., T., R., M., or Bk. and Survey or Area  
 Sec. 19-T2N-R7E

12. County or Parrish  
 Summit

13. State  
 Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. line, if any)  
 SHL = 660' BHL = 1530'

16. No. of acres in lease  
 640

17. No. of acres assigned to this well  
 640

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
 None

19. Proposed depth  
 10,660 MD

20. Rotary or cable tools  
 0-TD = Rotary Tools

21. Elevations (Show whether DF, RT, GR, etc.)  
 KBE: 6736' GLE: 6721

22. Approx. date work will start\*  
 Upon Approval 3-26-93

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
6"	4-1/2"	11.6#		Perforated Liner for Horizontal Wellbore

Union Pacific Resources Company proposes to Re-Enter the above stated wellbore and attempt a Horizontal completion in the Watton Canyon Member of the Twin Creek formation. Attached for your review and subsequent approval:

- (1) Original Well Information
- (2) Re-entry Procedure
- (3) Land Plat-Lease Information
- (4) Original Wellbore directional Survey

Please contact me at (817) 877-7956 if additional clarification is needed.

**RECEIVED**

MAR 17 1993

DIVISION OF

OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present production, 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. I hereby certify that this report is true and complete to the best of my knowledge.

Signed: *J. Rector* / Joy Rector Title: Sr. Regulatory Analyst Date: 03-12-93

(This space for Federal or State office use)  
 API NO. 43-043-30068

Approval Date

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

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

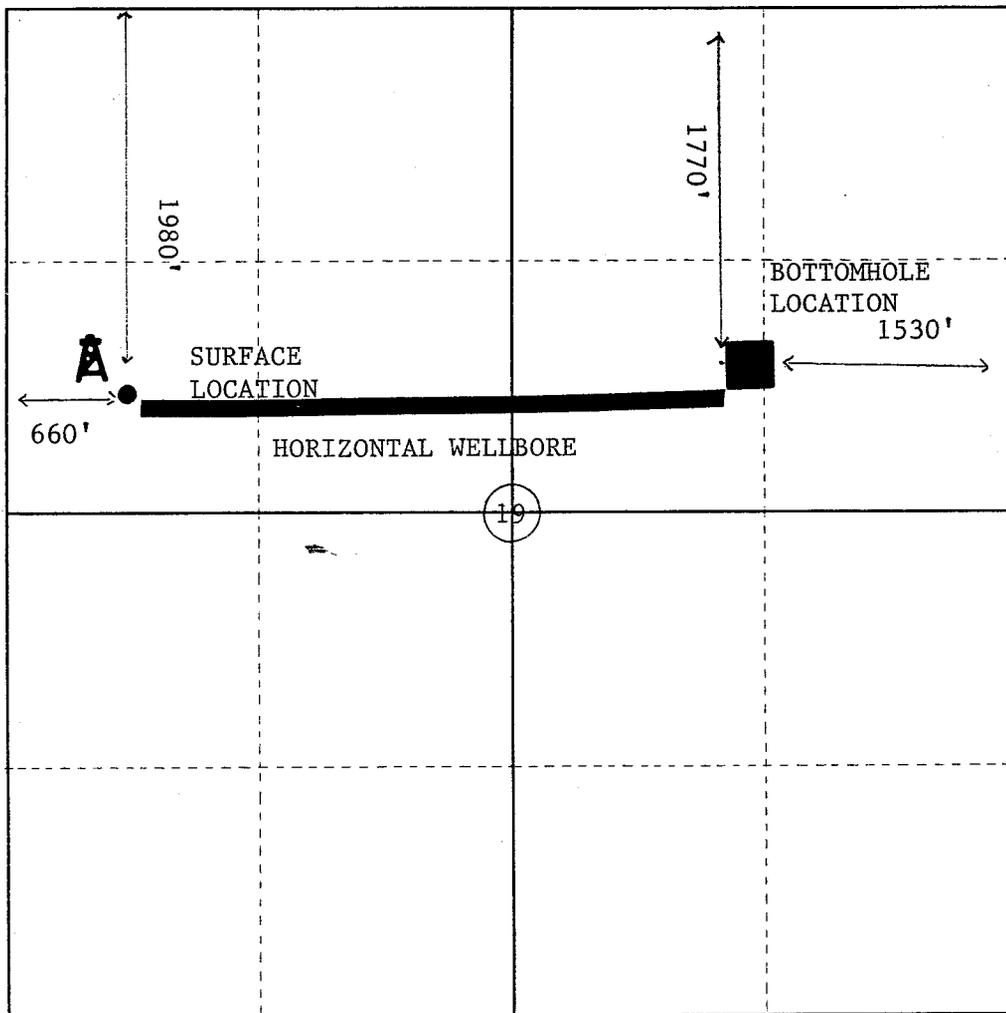
DATE: 3-30-93  
 BY: *J. Matthews*  
 WELL SPACING: 649-3-7

\*See Instructions On Reverse Side

Section 19 Township 2N Range 7E

County SUMMIT State UTAH

SECTION 19: IS A LAND GRANT SECTION WHICH WAS ONCE FARMED OUT TO EXXON. THE LEASE WAS FARMED BACK TO UNION PACIFIC RESOURCES. THE LEASE IS ALL OF SECTION 19, T2N, R7E. UPRC HAS THE LEASE 100%.



SCALE: 1 inch = 1000 feet

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

DATE RECEIVED: 03/17/93

OPERATOR: UNION PACIFIC RESOURCES  
WELL NAME: 1-H UPRR 19-2 (Re-entry)

OPERATOR ACCT NO: N- 9465

API NO. ASSIGNED: 43 - 043 - 30068

LEASE TYPE: FEE LEASE NO: fee  
LOCATION: SWNW 19 - T02N - R07E SUMMIT COUNTY  
FIELD: ELKHORN RIDGE FIELD CODE: 500

RECEIVED AND/OR REVIEWED:

- Plat
- Bond  
(Number previous approved)
- Potash (Y/N) with
- Oil shale (Y/N)
- Water permit  
(Number no permit #)
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

- R649-2-3. Unit: \_\_\_\_\_
- R649-3-2. General.
- R649-3-3. Exception.
- Drilling Unit.
- Board Cause no: \_\_\_\_\_
- Date: \_\_\_\_\_

COMMENTS: One add producing well within Sec 19.

STIPULATIONS: A drainage diversion should be placed around the location. The down hill side of the pad should be bermed. To prevent any runoff or spills from leaving the pad.  
water permit  
cc: summit county assessor

Lease: ELKHORN  
Well #: 19-2

Spud Date: 11/06/1979  
KB: 6896.8  
TD: 11419

Comp Date: 11/21/1980  
ELEV: 6880  
PBD: 10540

API #: 43-043-30068-  
Location: Sec 19 Twn 02N Rng 07E  
County: SUMMIT  
State: UTAH  
Field: ELKHORN  
Operator: UNION PACIFIC RESOURCES

3/17/93  
JAM

Start	End	Size	Description
End	Length		
0.0	32.000		Hole: CONDUCTOR
85.0	85.0		
0.0			Cement: GROUTED TO SURFACE BY DRY
85.0	85.0		HOLE DIGGER
0.0	24.000		Casing: CONDUCTOR
85.0	85.0		
100.0			Formation: ECHO
720.0	620.0		
85.0	12.250		Hole: SURFACE
1915.0	1830.0		
0.0	9.625		Casing: 688' 40# K-55 + 1226' 36# K-55
1915.0	1915.0		
0.0			Cement: 900SX. HOWCO LITE+ADDITIVES
1915.0	1915.0		+ 325SX. CL G +ADDITIVES CIR. CMT
720.0			Formation: WANSHIP
1920.0	1200.0		
1920.0			Formation: FRONTIER
3548.0	1628.0		
3548.0			Formation: ASPEN
3892.0	344.0		
3892.0			Formation: BEAR RIVER
4140.0	248.0		
4140.0			Formation: KELVIN
6840.0	2700.0		
6840.0			Formation: STUMP
7470.0	630.0		
7470.0			Formation: SALT
8950.0	600.0		
8950.0			Formation: PREUSS
9550.0	2182.0		
9550.0			Perf: 11 HOLES W/4" CSG GUN
10138.0	256.0		
10138.0			Formation: TWIN CREEK
10394.0	786.0		
10394.0			Perf: 2SPF W/4" CSG GUN
10440.0	30.0		
10440.0			Perf: 2SPF W/4" CSG GUN
10470.0	33.0		
10470.0			Plug: CICR SQUEEZE W/125 SX
10485.0	8.0		
10485.0			Perf: 1SPF W/ 4" CSG GUN
10518.0	90.0		
10518.0			Plug: CICR SQUEEZED W/100 SX.
10540.0	8.0		
10540.0			Perf: 1SPF W/4" CSG GUN
10570.0	5.0		
10570.0			Formation: WATTON CANYON
10660.0	260.0		
10660.0			Plug: CIBP W/ 1.5 SK CMT ON TOP
10670.0	7.000		
10670.0			Formation: BOUNDARY RIDGE
10678.0	46.0		
10678.0			Perf: 2SPF W/ 4" CSG GUN
10691.0	30.0		
10691.0			Formation: RICH
10696.0	260.0		
10696.0			Formation: GYP SPRINGS
10438.0	50.0		
10438.0			Formation: SLIDEROCK
10698.0	272.0		
10698.0			Hole: PRODUCTION
10700.0	8.750		
10700.0			Cement: 750SX. 50/50 POZ +ADDITIVES
10708.0	9504.0		+ 250SX. 50/50 POZ +ADDITIVES
10698.0	7.000		Casing: 2606' 32# S-95, 2737' 23#
10744.0	46.0		S-95, 5000' 23# N-80, 1076' 23# S-95
10744.0			Formation: NUGGET
10744.0	293.0		



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

March 30, 1993

Union Pacific Resources Company  
801 Cherry Street  
Fort Worth, Texas 76102

Gentlemen:

Re: Application for Permit to Drill  
Well No. Elkhorn #1H UPRR 19-2 - Re-entry  
1980' fnl and 660'fwl SW NW (surface)  
1770' fnl and 1530' fel, SW NE (bottom-hole)  
Sec. 19, T. 2 N., R. 7 E., Summit County, Utah

Pursuant to Utah Admin. R. 649-3-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval of the referenced application for permit to drill is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. A drainage diversion should be placed around the location. The downhill side of the location should be bermed to prevent any runoff or spills from leaving the location.
2. Submittal to the division of evidence providing assurance of an adequate and approved supply of water as required by Utah Code Ann. § 73-3, Appropriations, prior to commencing drilling operations.
3. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
4. Notification within 24 hours after drilling operations commence.

Page 2  
Union Pacific Resources Company  
Elkhorn #1H UPRR 19-2 Well  
March 30, 1993

5. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
6. Submittal of the Report of Water Encountered During Drilling, Form 7.
7. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.
8. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-043-30068.

Sincerely,



R.J. Firth  
Associate Director, Oil and Gas

ldc  
Enclosures  
cc: Bureau of Land Management  
Summit County Assessor  
J.L. Thompson  
WOH



Union Pacific Resources

A Subsidiary of Union Pacific Corporation

FACSIMILE TRANSMISSION

UNION PACIFIC RESOURCES COMPANY

TO: Frank Matthews DATE: 5-04-93 TIME: 1:35 p.m

LOCATION: \_\_\_\_\_ FAX NO: \_\_\_\_\_

FROM: Jay Pector \*\*TELEPHONE NO.: (817) 877-7956

MAIL STATION NO: \_\_\_\_\_ LOCATION: \_\_\_\_\_

NUMBER OF PAGES: 10 + Cover

REMARKS: Chronological Report fw  
4/21/93 thru 4/30/93

\*\* In case of difficulty with transmission, or to confirm receipt of telecopy, contact sender at telephone number listed.

PLEASE NOTE: The information contained in this facsimile is privileged and confidential, and is intended only for the use of the individual named above and others who have been specifically authorized to receive such. If the recipient is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify us by telephone.



	<b>UPRR # 1 H ELKHORN 19-2</b> ATTENTION BILL CHARLES	<b>04/22/93</b>
--	--	-----------------

REPORT NO. : <u>2</u>	DAYS FROM SPUD : <u>2</u>	A.F.E. NO. : <u>014674</u>
CONTRACTOR : <u>SST 56</u>	DEPTH : <u>10085</u>	HOLE MADE : <u>-455</u>
AFE TD/DHC/CWC : <u>13279 / \$ 1150000 / \$ 1516000</u>	OART: NIPPLE DOWN OFR BOPE	

MUD											
Weight : <u>8.5</u>	Visc. : <u>28</u>	Gels. : <u>/</u>	PV/YP : <u>/</u>	WL : <u>/</u>	Cake : <u>/</u>	HTRPWL : <u>/</u>	PH : <u>8.0</u>	PF/MF : <u>/ / 0.70</u>	Cl : <u>22000</u>	SAND : <u>/</u>	Solids : <u>/</u>
BKGD Gas : <u>/</u>	Trip Gas : <u>/</u>	Conn Gas : <u>/</u>	MBT : <u>/</u>	OWR : <u>/</u>	Ca : <u>/</u>	ELEC STAB : <u>K+</u>	LCH : <u>/</u>	LOW GRAVITY% : <u>/</u>			
Mud Material Mixed: <u>1-DRAYAGE</u>											

Mud Daily/Cum Cost : \$ <u>266 / 532</u>	Brine Daily/Cum Cost : \$ <u>/</u>
Daily/Cum Mud Lost to Hole: <u>/</u> bbls.	Daily/Cum Water Lost to Hole: <u>1200 / 1200</u> bbls.

PUMPS							
No. 1 Liner Size	<u>6.000</u>	<u>X</u>	<u>9.25</u>	<u>SPM</u>	<u>GPM</u>	<u>AV DP</u>	MIN. PRESS:
No. 2 Liner Size	<u>6.000</u>	<u>X</u>	<u>9.25</u>	<u>SPM</u>	<u>65</u>	<u>GPM</u>	<u>210</u> AV DC MAX. PRESS:

BITS									
Bit No.	Size	Manuf.	Type	Serial No.					
Bit In	Bit Out	Ftg.	Hours	FPH					
Bit Wt.	RPM	Bit Jets	JV	I: O: D: L: B: G: S: R:					
Bit No.	Size	Manuf.	Type	Serial No.					
Bit In	Bit Out	Ftg.	Hours	FPH					
Bit Wt.	RPM	Bit Jets	JV	I: O: D: L: B: G: S: R:					
Slack Off Wt.	Pickup Wt.	Rotary Wt.	Torque						

SURVEY								BHA			
SURVEY MD	ANGLE	TVD	DIR.	VERTICAL SECTION N/S	COORDINATES E/W	DOGLEG	Qty	Description	O.D.	Length	
<u>0</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>					
							TOTAL BHA LENGTH :				

LAST CASING / BOP					
Size:	Wt.:	Grade:	Connections:	Depth:	FIT:
LAST BOP Test Date: <u>01/04/80</u>		Accidents: <u>N</u>		Pollution: <u>N</u>	

HRS		ACTIVITY LAST 24 HOURS	
3.00		FINISH CLEANING RIG	
5.00		CIRC OUT WELL RECOVERED 250-300 BBLs OF OIL TO SKIMMER TANK	
4.00		FINISH L/D TBG(FILL BACKSIDE AND TBG EVERY 15 JNITS HOLE ON A VACCUUM PUMPED APPROX. 900 BBLs OF 8.5 PRODUCTION WATER)	
0.50		PARTIALY R/D AMERICAN PIPE HANDLERS	
9.50		R/U OWP RUN CBL/GR FR 10100 TO 9500(BOND GOOD) R/U HOWCO CIBP SETTING TOOL RH W/CMP WIRELINE & HOWCO 7" SPEED E LINE CIBP CORRELATE & SET @ 10085 POH P/U DUMP BAILER MIX CNT RH DUMP 2 SX CNT (12 FT OF FILL)POH L/D BAILER R/D OWP	
1.00		N/D OFR DOUBLE GATE BOP(WELL STATIC NO FLOW)	
		FLUID RECOVERY TO DATE:250 BBLs	
		BOILER HRS :0/12	
		OIL RECOVERY TO DATE:	
HRS 23.0		Drlg. Foreman : <u>RICKY J. BOHANNON</u>	

COST SUMMARY		
CODE	DESCRIPTION	COSTS
15	DRILLING - DAYWORK	4776.0
17	CONTRACT SUPERVISION	500.0
19	MUD AND CHEMICALS	266.0
21	WATER	652.0
27	HOWCO CIBP & SERVICE	1277.0
31	CASED HOLE LOGS OWP	5804.0
46	TRANSPORT. - LAND	4036.0
58	CONTRACT LABOR	1605.0
60	1 DRUM SOLVENT	127.0
71	RENTALS - DOWNHOLE	1299.0
Total Daily Cost :		<u>20342.0</u>
Cum. Cost to Date:		<u>123642.0</u>

**Union Pacific Resources** UPRR # 1 H ELKHORN 19-2 04/23/93  
 ATTENTION BILL CHARLES

REPORT NO. : 3 DAYS FROM SPUD: 3 A.F.E. NO. : 014674  
 CONTRACTOR: SST 56 DEPTH : 10015 HOLE MADE : -70  
 AFE TD/DHC/CWC : 13279 / \$ 1150000 / \$ 1516000 PART: RIH WITH SPEED E LINE CIBP

MUD					
Weight : 8.5	Visc. : 28	Gels. : /	PV/YP : /	WL : /	Cake : /
HTHPWL : /	PH : 8.0	PF/MF : / 0.05	ct : 15000	SAND : /	Solids : /
BKGD Gas : /	Trip Gas : /	Conn Gas : /	MRT : /	OWR : /	Ca : 100
ELEC STAB: K+	LCM : /	LOW GRAVITYX: /			
Mud Material Mixed: /					
Mud Daily/Cum Cost : \$ / 532			Brine Daily/Cum Cost : \$ /		
Daily/Cum Mud Lost to Hole: / bbls.			Daily/Cum Water Lost to Hole: / 1200 bbls.		

PUMPS							
No. 1 Liner Size	6.000	X	9.25	SPM	GPM	AV DP	MIN. PRESS:
No. 2 Liner Size	6.000	X	9.25	SPM	GPM	AV DC	MAX. PRESS:

BITS					
Bit No.	Size	Manuf.	Type	Serial No.	
Bit In	Bit Out	Ftg.	Hours	FPH	
Bit Wt. /	RPM /	Bit Jets	JV	I: O: D: L: B: G: S: R:	
Bit No.	Size	Manuf.	Type	Serial No.	
Bit In	Bit Out	Ftg.	Hours	FPH	
Bit Wt. /	RPM /	Bit Jets	JV	I: O: D: L: B: G: S: R:	
Slack Off Wt.	Pickup Wt.	Rotary Wt.	Torque		

SURVEY								BHA		
SURVEY MD	ANGLE	TVD	DIR.	VERTICAL SECTION N/S	COORDINATES E/W	DOGLEG	Bty	Description	O.D.	Length
0	0.00	0.00	0.00	0.00	0.00	0.00				
TOTAL BHA LENGTH :										

**LAST CASING / BOP**  
 Size: Wt.: Grade: Connection: Depth: FIT:  
 LAST BOP Test Date: 04/21/93 Accidents: N Pollution: N

HRS	ACTIVITY LAST 24 HOURS
4.50	N/D RECTOR 11" 3M X 7 1/16 5M TBG HEAD - N/U FMC 11" 3M X 7 1/16 5M TBG HEAD TEST TO 3000 PSI FOR 15 MINUTES - OK
12.50	NU BOPS - MODIFY BELL NIPPLE & FLOWLINE
6.00	TEST BOP'S W/DOUBLE JACK AS FOLLOWS: ALL VALVES IN MANIFOLD HOUSE CHOKE LINES, MANUAL, HCR, INSIDE N OUTSIDE MANUAL VALVES, KILL LINE 4" PIPE & BLI NDS, UPPER AND LOWER KELLY VALVES, INSIDE BOP, STABBING VALVE @ 250 LOW 5000 HIGH FOR 15 MINUTE TEST ANNULAR TO 2500 FOR 15 MINUTES OK
1.00	R/U OWP AND RIH W/SPEED E LINE CIBP
	FLUID RECOVERY TO DATE: 250 BBLs BOILER HRS: 12/24
	NOTE: UTAH OIL & GAS COMMISSION ON LOC 4/22/93 COMMENTED ON HOW WELL OUR OPERATION WAS SET UP AND WAS BEING HANDLED.

COST SUMMARY		
CODE	DESCRIPTION	COSTS
15	DRILLING - DAYWORK	4776.0
17	CONTRACT SUPERVISION	500.0
27	HOWCO CIBP & SERVICE	1277.0
46	TRANSPORT. - LAND	971.0
58	FMC SERVICE MAN	897.0
58	DOUBLE JACK BOP TEST	910.0
71	RENTALS - DOWNHOLE	1136.0
75	WELDING	3038.0
Total Daily Cost :		13505.0
Cum. Cost to Date:		137147.0

137147.0  
 RICKY J. BOHANNON



UPRR # 1 H ELKHORN 19-2

04/24/93

ATTENTION BILL CHARLES

REPORT NO. : 4      DAYS FROM SPUD: 4      A.F.E. NO. : 014674  
 CONTRACTOR: SST 56      DEPTH : 10015      HOLE MADE :  
 AFE TO/DHC/CWC : 13279 / \$ 1150000 / \$ 1516000      PART: CIRC AND MIX MILLING MUD TO CUT WINDOW

MUD					
Weight : 8.5	Visc. : 28	Gels. : /	PV/YP : /	WL : /	Cake : /
HHPWL : /	PH : 8.0	PF/MF : /	CL : 15000	SAND : /	Solids : /
BKGD Gas : /	Trip Gas : /	Conn Gas : /	MBT : /	OWR : /	Ca : 140
ELEC STAB: K+	LCH : /	LOW GRAVITY%: /			

Mud Material Mixed: /					
Mud Daily/Cum Cost : \$ / 532	Brine Daily/Cum Cost : \$ /				
Daily/Cum Mud Lost to Hole: / bbls.	Daily/Cum Water Lost to Hole: / 1200 bbls.				

PUMPS										
No. 1 Liner Size	6.000	X	9.25	SPM	60	GPM	194	AV DP	132.0	MIN. PRESS: 1000
No. 2 Liner Size	6.000	X	9.25	SPM		GPM		AV DC	132.0	MAX. PRESS: 1000

BITS										
Bit No.	1	Size	6.000	Manuf.	REED	Type	HP51/A	Serial No.	1W2871	
Bit In	10011	Bit Out	10011	Ftg.		Hours		FPH		
Bit Wt.	/	RPM	/	Bit Jets		JV	I: 0: D: NO L: A B: G: I S: NO R: CL			
Bit No.		Size		Manuf.		Type		Serial No.		
Bit In		Bit Out		Ftg.		Hours		FPH		
Bit Wt.	/	RPM	/	Bit Jets		JV	I: 0: D: L: B: G: S: R:			
Slack Off Wt.	132	Pickup Wt.	132	Rotary Wt.		Torque				

SURVEY								BHA			
SURVEY MD	ANGLE	TVD	DIR.	VERTICAL SECTION	N/S COORDINATES	E/W	DOGLEG	Qty	Description	O.D.	Length
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	REDD HP-51A	6.000	1.00
								1	CSG SCRAPER (TRI STATE)	5.380	3.30
								TOTAL BHA LENGTH : 4.30			

LAST CASING / BOP					
Size: 7.000	Wt.: 23.00	Grade: S-95	Connection: LTC	Depth: 11419	FIT:
LAST BOP Test Date: 04/21/93	Accidents: N	Pollution: N			

HRS		ACTIVITY LAST 24 HOURS	
3.00	FINISH RIH W/OVP TO 10015 FT. CORRELATE & SET HOWCO SPEED E LINE 7" CIBP		
1.00	R/U AMERICAN PIPE HANDLERS P/U MACHINE		
15.00	PU TRI STATE 7" 23-32 PPF CSG SCRAPER & BIT RIH W OFR 4" 14 PPF S 135 DP TO 10011 FT		
2.50	CIRCULATE DISPLACE APPROX 90 BBLs OF OIL CUT FLUID @ 60 SPM TO SKIMMER PITS		
2.50	CIRC & MUD UP TO MILL CUT WINDOW		
	FLUID RECOVERY TO DATE: 340 BBLs		
	BOILER HRS: 24/48		
HRS 24.0		Drig. Foreman : RICKY J. BOHANNON	

COST SUMMARY		
CODE	DESCRIPTION	COSTS
15	DRILLING - DAYWORK	4776.0
17	CONTRACT SUPERVISION	500.0
21	WATER	1237.0
46	TRANSPORT. - LAND	1857.0
51	MISC. MATLS/SERV.	1600.0
58	CONTRACT LABOR	2869.0
60	MISC. SUPPLIES	5930.0
71	RENTALS - DOWNHOLE	1136.0
75	WELDING	144.0
Total Daily Cost :		20049.0
Cum. Cost to Date:		157196.0









<b>Union Pacific Resources</b>	<b>UPRR # 1 H ELKHORN 19-2</b>	<b>04/29/93</b>
ATTENTION BILL CHARLES		

REPORT NO. : 9	DAYS FROM SPUD : 9	A.F.E. NO. : 014674
CONTRACTOR: SST 56	DEPTH : 10012	HOLE MADE : 6
AFE TD/DHC/CWC : 13279 / \$ 1150000 / \$ 1516000	GART: POH W/MILL # 4-QUIT DRILLING	

MUD					
Weight : 8.8	Visc. : 65	Gels. : 15/ 25	PV/YP : 7 / 26	WL : _____	Cake : 3.0
HHPWL : _____	PH : 10.5	PF/MF : 0.20/ 0.40	Cl : 15000	SAND : _____	Solids : _____ / 3.0
BKGD Gas : _____	Trip Gas : _____	Conn Gas : _____	MBT : _____	CMR : _____	Ca : _____
ELEC STAB : K+	LCM : _____	LOW GRAVITYX : _____			
Mud Material Mixed: 70-GEL 6-LIME 1-DRAYAGE 1-TAX					
Mud Daily/Cum Cost : \$ 758 / 3298			Brine Daily/Cum Cost : \$ /		
Daily/Cum Mud Lost to Hole: / bbls.			Daily/Cum Water Lost to Hole: / 1200 bbls.		

PUMPS									
No. 1 Liner Size	6.000	X	9.25	SPM	65	GPM	210	AV DP	MIN. PRESS: 1150
No. 2 Liner Size	6.000	X	9.25	SPM		GPM		AV DC	MAX. PRESS: 1150

BITS													
Bit No.	Size	Manuf.	Type	Serial No.									
Bit In	Bit Out	Ftg.	Hours	FPH									
Bit Wt.	2 / 10	RPM	75 / 75	Bit Jets	JV	I:	O:	D:	L:	B:	G:	S:	R:
Bit No.	Size	Manuf.	Type	Serial No.									
Bit In	Bit Out	Ftg.	Hours	FPH									
Bit Wt.	/	RPM	/	Bit Jets	JV	I:	O:	D:	L:	B:	G:	S:	R:
Slack Off Wt.	138	Pickup Wt.	140	Rotary Wt.	142	Torque	200						

SURVEY								BHA				
SURVEY NO	ANGLE	TVD	DIR.	VERTICAL SECTION	N/S	COORDINATES	E/W	DOGLEG	Qty	Description	G.D.	Length
0	0.00	0.00	0.00	0.00		0.00	0.00	0.00	1	BULLET MILL(AZ GRANT)	5.880	1.47
									1	CROSSOVER	4.750	2.49
									1	DRILL PIPE	4.000	30.35
									1	CROSSOVER	4.630	1.34
									25	HW DP (25.3#)	3.500	757.70
									1	CROSSOVER	4.560	1.32
										TOTAL BHA LENGTH : 794.87		

LAST CASING / BOP						
Size: 7.000	Wt.: 23.00	Grade: S-95	Connection: LTC	Depth: 11419	FIT:	
LAST BOP Test Date: 04/21/93			Accidents: N	Pollution: N		

HRS ACTIVITY LAST 24 HOURS	
2.50	FINISH POH W/WINDOW MILL RUN # 2-L/D SAME M/U MILL # 3
0.50	SERVICE RIG CK ROPE
3.00	RIB W/WINDOW MILL RUN # 3
3.00	WORK MILL TO BTM MILL APPROX. 4" MINIMAL TORQUE 200-210 NO PROGRESS
1.00	CIRCULATE BOTTOMS UP
3.50	POH TO CHANGE MILL ASSY. (FOUND MILL CENTER COR ED OUT 1/4")L/D MILL
3.00	P/U BULLET MILL RIB W/SAME TO 10006
6.00	WORK MILL TO BTM MILL FR 10006-10012(TORQUE 180 220-MILL RATE SLOWING DOWN
1.00	PUMP SWEEP CIRC BTM UP
0.50	POH W/MILL RUN # 4
	FLUID RECOVERY TO DATE:0/340
	BOILER HRS TO DATE:24/120
HRS 24.0	Orig. Foreman : RICKY J. BOHANNON

COST SUMMARY		
CODE	DESCRIPTION	COSTS
15	DRILLING - DAYWORK	4776.0
17	CONTRACT SUPERVISION	500.0
19	MUD AND CHEMICALS	758.2
21	WATER	650.0
36	DIRECTIONAL DRILLING	1500.0
71	RENTALS - DOWNHOLE	1564.0
Total Daily Cost :		9748.2
Cum. Cost to Date:		233972.7



UPRR # 1 H ELKHORN 19-2  
 ATTENTION BILL CHARLES

04/30/93

REPORT NO. : 10  
 CONTRACTOR: SST 56  
 AFE TD/DHC/CWC : 13279 / \$ 1150000 / \$ 1516000  
 DAYS FROM SPUD: 10  
 DEPTH : 10014  
 A.F.E. NO. : 014674  
 HOLE MADE : 2  
 PART: CLEAN PITS AND FILL WITH 8.5 PRODUCTION WATER

MUD					
Weight : 8.8	Visc. : 41	Gels. : 10/ 15	PV/YP : 5 / 14	WL : _____	Cake : 3.0
HTRPWL : _____	PH : 10.5	PF/MF : 0.20/ 0.40	CL : 15000	SAND : _____	Solids : _____ / 3.0
BKGD Gas : _____	Trip Gas : _____	Conn Gas : _____	MBT : _____	OWR : _____	Ca : _____
ELEC STAB : K+	LCM : _____	LOW GRAVITY% : _____			

Mud Material Mixed: \_\_\_\_\_  
 Mud Daily/Cum Cost : \$ / 3298  
 Brine Daily/Cum Cost : \$ /  
 Daily/Cum Mud Lost to Hole: / bbls.  
 Daily/Cum Water Lost to Hole: / 1200 bbls.

PUMPS								
No. 1 Liner Size	6.000	X	9.25	SPH	70	GPH 226	AV DP	MIN. PRESS: 1150
No. 2 Liner Size	6.000	X	9.25	SPH		GPH	AV DC	MAX. PRESS: 1150

BITS											
Bit No.	Size	Manuf.	Type	Serial No.							
Bit In	Bit Out	Ftg.	Hours	FPH							
Bit Wt.	RPM	Bit Jets	JV	I:	O:	D:	L:	B:	G:	S:	R:
Bit No.	Size	Manuf.	Type	Serial No.							
Bit In	Bit Out	Ftg.	Hours	FPH							
Bit Wt.	RPM	Bit Jets	JV	I:	O:	D:	L:	B:	G:	S:	R:
Slack Off Wt.	Pickup Wt.	Rotary Wt.	Torque								

SURVEY							
SURVEY MD	ANGLE	TVD	DIR.	VERTICAL SECTION N/S	COORDINATES E/W	DOGLEG	
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BHA			
Qty	Description	O.D.	Length
1	SIC/F3 (KT-8478)	5.875	0.60
1	MUD MOTOR(MASTER DOWNHO)	4.750	17.14
1	FLOAT SUB	4.310	1.91
1	CROSSOVER	4.750	1.84
1	MWD(SPERRY/SUN)	4.310	30.60
1	MULE SHOE	4.750	1.63
2	MOHEL DRILL CLR	4.630	59.51
1	CROSSOVER	4.750	1.91
12	DP (14 #)	4.000	371.43
1	CROSSOVER	4.750	1.34
1	JARS(DAILEY)	4.690	28.60
25	HW DP (25.3#)	3.500	757.70
1	CROSSOVER	4.750	1.32
TOTAL BHA LENGTH : 1275.55			

LAST CASING / BOP  
 Size: 7.000 | Wt.: 23.00 | Grade: S-95 | Connection: LTC | Depth: 11419 | FIT:  
 LAST BOP Test Date: 04/21/93 | Accidents: N | Pollution: N

ACTIVITY LAST 24 HOURS	
3.00	POH TO L/D BULLET MILL
0.50	P/U CLEAN OUT MILL ASSY
3.00	R/H W/WINDOW MILL & WATERMELON MILL ASSY
4.50	ELONGATE CSG FROM 10001-10014 WORK MILL THROUGH SECTION SEVERAL TIMES NO DRAG
1.00	CIRCULATE HI VIS SWEEP TO CLEAN HOLE (VIS 80)
4.50	POH L/D MILLING ASSY.
0.50	SERVICE RIG & BOP CHECK
3.50	N/D FLOW LINE N/U AZ GRANT ROTATING HEAD V/BLA NK FLANGE (HAD TO TAP OUT STUD HOLES BOLTS WCU LD'NT GO)
2.00	P/U MASTER DOWNHOLE MM BHA AND SPERRY SUN MWD
1.50	DUMP PITS & CLEAN PRIME PUMP FILL TANKS
	FLUID RECOVERY TO DATE:0/340
	BOILER HRS TO DATE:24/144
	WATER RECIEVED TO DATE:PRODUCTION-3583
	:FRESH -1260
	FUEL RECIEVED:0/8500
	WEATHER @ 5:00 AM 34 DEG. RAINING
	SAMPLE:98% LIMESTONE - 2 % METAL SHAVINGS
HRS 24.0	Drig. Foreman : RICKY J. BOHANNON

COST SUMMARY		
CODE	DESCRIPTION	COSTS
	TRANSPORT. - LAND	745.0
15	DRILLING - DAYWORK	4776.0
17	CONTRACT SUPERVISION	500.0
36	DIRECTIONAL DRILLING	1500.0
48	COMMUNICATIONS	875.0
58	CONTRACT LABOR	250.0
58	AZ GRANT LABOR & TOO	29200.0
60	MISC. SUPPLIES	591.0
71	RENTALS - DOWNHOLE	1564.0
Total Daily Cost :		40001.0
Cum. Cost to Date:		273973.7

6. Lease Designation and Serial Number  
**Land Grant Section**  
 7. Indian Allottee or Tribe Name  
 N/A  
 8. Unit or Communitization Agreement  
 N/A

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

2. Name of Operator  
**Union Pacific Resources Company**

3. Address of Operator  
**P.O. Box 7 MS 3407, Fort Worth, TX 76101-0007**

4. Telephone Number  
**(817)877-7956**

9. Well Name and Number  
**Elkhorn 12-19 #III**

10. API Well Number  
**43-043-30068**

11. Field and Pool, or Wildcat  
**Elkhorn/Watton Canyon**

5. Location of Well  
 BHL: 1530'FEL & 1770'FNL  
 Footage SHL: 660'FWL & 1980'FNL  
 County : **Summit**  
 QQ, Sec. T., R., M. : **Sec. 19-T2N-R7E**  
 State : **UTAH**

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment	<input type="checkbox"/> Abandonment *
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Casing Repair
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Conversion to Injection
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Fracture Treat
<input type="checkbox"/> Multiple Completion	<input checked="" type="checkbox"/> Other <u>status report</u>
<input type="checkbox"/> Other _____	
<input type="checkbox"/> New Construction	<input type="checkbox"/> New Construction
<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Water Shut-Off	

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

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

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

Please find attached a chronological report showing the status of the above mentioned well.

If further information is needed, please contact Joy Rector at (817)877-7956.

**RECEIVED**  
 JUN 28 1993  
 DIVISION OF  
 OIL GAS & MINING

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

Name & Signature Cami Minzenmayer /Cami Minzenmayer Title Regulatory Analyst Date 6-24-93

(Use Only)

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 5

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
04/21/93	10540		<p align="center"><b>FIRST REPORT OF OPERATION</b></p> <p>AFE # 14674 IN THE AMOUNT OF 1,516M TO RE ENTER WHIPSTOCK AND HORIZONTALY DRILL A WELL IN SUMMIT COUNTY,UTAH ELKHORN FIELD. DIR:FROM COALVILLE UTAH TAKE CHALK CREEK ROAD(100 NORTH)GO 6.5 MILES EAST TURN RIGHT GO 3.5 TO FORK IN ROAD TAKE LEFT FORK GO .7 MILE TO NEXT FORK TURN RIGHT THROUGH GATE 1.1 MILES UP HILL TURN RIGHT INTO LOCATION. API # 49-043-30068 UTAH OIL &amp; GAS CONTACTED ON 4/20/93.</p> <p>06:00 14:00 RU/RD, FINISH RIGGING UP SKIMMER SYSTEM</p> <p>14:00 16:00 RIG UP BLOW DOWN TBG &amp; CSG N/U OILFIELD RENTAL DOUBLE GATE 7/16 5M BOP AND CLOSING UNIT(CSG &amp; TBG DEAD NO FLOW)</p> <p>16:00 17:00 R/U AMERICAN PIPE HANDLERS L/D MACHINE AND TONGS TO L/D 2 7/8 TBG.</p> <p>17:00 18:00 MAKE UP TBG HANDLING TOOLS AND SAFETY VALVE</p> <p>18:00 22:00 UNSEAT ANCHOR CATCHER PULLED 25000 OVER STRING (57000 LBS FOR STRING)L/D TBG (128 JNTS.)</p> <p>22:00 23:00 WHILE BREAKING OUT &amp; L/D JNT 128 WELL STARTED UNLOADING THROUGH THE TBG SUDDENLY MADE SEVERAL ATTEMPTS TO STAB TIW VALVE STABBED VALVE AND CLOSED WELL IN BLOWED WELL DOWN THROUGH FLOW LINE TO SKIMMER PIT NO FLUID RECOVERY JUST GAS (FILLED HOLE WHILE PULLING TBG)</p> <p>23:00 06:00 CLEAN UP RIG (RIG FLOOR AND PART OF DERRICK COVERED WITH THICK PARRIFIN AND OIL WILL HAVE - RIG CLEAN ENOUGH TO START PULLING TBG BY 06:00)</p> <p>NOTE:RIG CREWS HANDLED SITUATION VERY WELL                      GL:6721                      KB:6745                      : 24' DIFF</p>
04/22/93	10085	06:00 09:00	RIG ON HIRE 4/20/93 @ 06:00 FINISH CLEANING RIG
		09:00 14:00	CIRC OUT WELL RECOVERED 250-300 BBLs OF OIL TO SKIMMER TANK
		14:00 18:00	FINISH L/D TBG(FILL BACKSIDE AND TBG EVERY 15 JNTS HOLE ON A VACCUM PUMPED APPROX. 900 BBLs OF 8.5 PRODUCTION WATER)
		18:00 18:30	PARTIALY R/D AMERICAN PIPE HANDLERS
		18:30 04:00	R/U OWP RUN CBL/GR FR 10100 TO 9500(BOND GOOD) R/U HOWCO CIBP SETTING TOOL RIH W/OWP WIRELINE & HOWCO 7" SPEED E LINE CIBP CORRELATE & SET @ 10085 POH P/U DUMP BAILER MIX CMT RIH DUMP 2 SX CMT (12 FT OF FILL)POH L/D BAILER R/D OWP
		04:00 05:00	N/D OFR DOUBLE GATE BOP(WELL STATIC NO FLOW)

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 5

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
04/23/93	10015	05:00 09:30	FLUID RECOVERY TO DATE:250 BBLs BOILER HRS :0/12 OIL RECOVERY TO DATE: N/D RECTOR 11" 3M X 7 1/16 5M TBG HEAD - N/U FMC 11" 3M X 7 1/16 5M TBG HEAD TEST TO 3000 PSI FOR 15 MINUTES - OK
		09:30 22:00	NU BOPS - MODIFY BELL NIPPLE & FLOWLINE
		22:00 04:00	TEST BOP'S W/DOUBLE JACK AS FOLLOWS:ALL VALVES IN MANIFOLD HOUSE CHOKE LINES,MANUAL,HCR,INSIDE N OUTSIDE MANUAL VALVES,KILL LINE,4" PIPE & BLI NDS,UPPER AND LOWER KELLY VALVES,INSIDE BOP, STABBING VALVE @ 250 LOW 5000 HIGH FOR15 MINUTE TEST ANNULAR TO 2500 FOR 15 MINUTES OK
		04:00 05:00	R/U OWP AND RIH W/SPEED E LINE CIBP
04/24/93	10015	05:00 08:00	FLUID RECOVERY TO DATE:250 BBLs BOILER HRS:12/24  NOTE: UTAH OIL & GAS COMMISSION ON LOC 4/22/93 COMMENTED ON HOW WELL OUR OPERATION WAS SET UP AND WAS BEING HANDLED. FINISH RIH W/OWP TO 10015 FT. CORRELATE & SET HOWCO SPEED E LINE 7" CIBP
		08:00 09:00	R/U AMERICAN PIPE HANDLERS P/U MACHINE
		09:00 24:00	PU TRI STATE 7" 23-32 PPF CSG SCRAPER & BIT RIH W OFR 4" 14 PPF S 135 DP TO 10011 FT
		24:00 02:30	CIRCULATE DISPLACE APPROX 90 BBLs OF OIL CUT FLUID @ 60 SPM TO SKIMMER PITS
		02:30 05:00	CIRC & MUD UP TO MILL OUT WINDOW
04/25/93	10015	05:00 07:00	FLUID RECOVERY TO DATE:340 BBLs BOILER HRS:24/48 CIRCULATE/CONDITION MUD
		07:00 07:15	PRESSURE TEST 7" CSG TO 1500 PSI FOR 15 MIN OK
		07:15 12:30	POH (SLM) TO P/U AZ GRANT PACK STOCK (NO CORR)
		12:30 15:00	P/U AZ GRANT 7" CSG PACK STOCK & DRESS SAME
		15:00 23:00	P/U 25 JNTS HEVI WT DP RIH W/PACKSTOCK TAG UP @ 9540 W/10000 LBS WT WORKED FREE W/40K OVERPULL (WORKED PIPE UP EVERY 2K TO AN OVERPULL OF 40K PIPE CAME FREE WITH NO JARRING ACTION)
		23:00 03:00	POH W/PACK STOCK ASSEMBLY ALL PACKSTOCK COMPLET IN TACK BACK SIDE OF ANCHOR HAD A 2 FT. GROOVE APPROXIMATELY 1/16" DEEP
03:00 04:00	WAIT ON ORDERS		

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2	WELL No. :19-2
AFE No. :014674	API No. :49-043-30068
FIELD :ELKHORN	RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 5

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		04:00 05:00	P/U AZ GRANT WATERMELON MILL AND WINDOW MILL & RIH TO CLEAN OUT OBSTRUCTION  FLUID RECOVERY TO DATE:0/340 BOILER HRS:24/60

**OPERATION SUMMARY REPORT**

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WELL No. :19-2  
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 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 6 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
04/26/93	10015	05:00 07:30	FINSIH RIH W/MILL ASSEMBLY TO 9517
		07:30 11:00	P/U KELLY TAG TIGHT SPOT @ 9540-MILL FR 9540 W/ NO WEIGHT @ 45 RPM'S TO 9547 TORQUE FR 100-140 TORQUE THEN INCREASED TO 200-250 WITH NO PROGRE SS PICK UP & CIRC BTMS UP HAD VERY FINE CUTTING ON DITCH MAGNETS
		11:00 14:00	POH W/MILL ASSY.
		14:00 15:00	L/D MILL BHA AND BREAK DOWN PACKSTOCK TOOLS
		15:00 18:30	R/U OWP WIRELINE RIH W/CALIPER LOG LOG FR 9500 10012-FOUND CASING COLLASPED FROM 9517-9550 CSG SIZE 5.69(5 11/16) TO 5.88(5 7/8)POH R/D OWP
		18:30 22:00	WAIT ON TRI STATE SWAGE & TOOLS
		22:00 24:00	P/U TRI STATE 5 7/8 SWAGE AND RUNNING TOOLS
		24:00 04:00	RIH W/SWAGE ASSY TO 9498-SWAGE CSG FROM 9517 TO 9550(WORST SPOTS @ 9524-9527-9528-9529,9530 SWAGE WT @ 9524-9530 30,000)WORK SWAGE SEVERAL TIMES L/D 2 JTS.
		04:00 05:00	POH W/SWAGE ASSEMBLY
04/27/93	10015	05:00 09:30	NOTE:MILL TOOLS TURN DOWN TO 5 7/8 AND ON LOC POH L/D TRI STATE SWAGE TOOLS
		09:30 12:30	P/U AZ GRANT PACKSTOCK RIH TO 10015
		12:30 17:30	R/U RIH W/SDI WIRELINE & ORIENT PACKSTOCK @ 81 DEGREE'S
		17:30 18:30	PRESSURE UP TO 3000 PSI SET PKR( SET DOWN 15K AND PULL 40K TO INSURE SET)SHEAR RUNNING TOOL @ 55-60K OVER STRING WT. BREAK CIRC
		18:30 20:30	STARTER MILL RUN MILLED 19" P/U AND REAM START ER HOLE
		20:30 21:00	CIRCULATE
		21:00 01:30	POH W/PACKSOCK RUNNING TOOLS AND STARTER MILL
		01:30 02:30	L/D PACKSTOCK RUNNING TOOLS P/U WINDOW MILL BHA
		02:30 05:00	RIH W/2ND MILL RUN
04/28/93	10006	05:00 07:00	FINSIH TRIP IN HOLE W/WINDOW MILL # 1 TO 10000
		07:00 14:00	MILL W/1ST WINDOW MILL FR 10000-10003 MILL TOR QUE FR 200 AMPS TO 300 ROTARY STALLED P/U PULL 40K OVER STRING WT.(175K)CAME FREE WORK TO BTM

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SUMMARY OF OPERATIONS FROM REPORT No. 6 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			CONTINUE TO MILL FR 10003 TO 10004.5 MILL STOP PED DRLG PUMP SWEEP
		14:00 17:30	POH W/MILL ASSY. FOUND MILL WORN DOWN TO A CONE SHAPE L/D 1 JNT OF DP
		17:30 19:00	SLIP & CUT 140 FT OF DRLG LINE
		19:00 19:30	SERVICE RIG
		19:30 23:00	P/U 2ND WINDOW MILL ASSY. RIH W/SAME TO 10000
		23:00 03:00	WORK MILL TO BTM TORQUE 200-MILL FR 10004.5 TO 10006-MILL STOPPED DRLG TORQUE DID NOT INCREASE TORQUE BETWEEN 200-250
		03:00 04:00	PUMP HI VIS SWEEP AND CIRC OUT
		04:00 05:00	POH W/WINDOW MILL RUN # 2
04/29/93	10012	05:00 07:30	FLUID RECOVERY TO DATE:0/340 BOILER HRS TO DATE:24/96 FINISH POH W/WINDOW MILL RUN # 2-L/D SAME M/U MILL # 3
		07:30 08:00	SERVICE RIG CK BOPE
		08:00 11:00	RIH W/WINDOW MILL RUN # 3
		11:00 14:00	WORK MILL TO BTM MILL APPROX. 4" MINIMAL TORQUE 200-210 NO PROGRESS
		14:00 15:00	CIRCULATE BOTTOMS UP
		15:00 18:30	POH TO CHANGE MILL ASSY. (FOUND MILL CENTER COR ED OUT 1/4")L/D MILL
		18:30 21:30	P/U BULLET MILL RIH W/SAME TO 10006
		21:30 03:30	WORK MILL TO BTM MILL FR 10006-10012(TORQUE 180 220-MILL RATE SLOWING DOWN
		03:30 04:30	PUMP SWEEP CIRC BTM UP
		04:30 05:00	POH W/MILL RUN # 4
04/30/93	10014	05:00 08:00	FLUID RECOVERY TO DATE:0/340 BOILER HRS TO DATE:24/120 POH TO L/D BULLET MILL
		08:00 08:30	P/U CLEAN OUT MILL ASSY
		08:30 11:30	RIH W/WINDOW MILL & WATERMELON MILL ASSY
		11:30 16:00	ELONGATE CSG FROM 10001-10014 WORK MILL THROUGH SECTION SEVERAL TIMES NO DRAG
		16:00 17:00	CIRCULATE HI VIS SWEEP TO CLEAN HOLE (VIS 80)

## OPERATION SUMMARY REPORT

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SUMMARY OF OPERATIONS FROM REPORT No. 6 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		17:00 21:30	POH L/D MILLING ASSY.
		21:30 22:00	SERVICE RIG & BOP CHECK
		22:00 01:30	N/D FLOW LINE N/U AZ GRANT ROTATING HEAD W/BLANK FLANGE (HAD TO TAP OUT STUD HOLES BOLTS WOULD'NT GO)
		01:30 03:30	P/U MASTER DOWNHOLE MM BHA AND SPERRY SUN MWD
		03:30 05:00	DUMP PITS & CLEAN PRIME PUMP FILL TANKS
			FLUID RECOVERY TO DATE:0/340 BOILER HRS TO DATE:24/144 WATER RECIEVED TO DATE:PRODUCTION-3583 :FRESH -1260 FUEL RECIEVED:0/8500 WEATHER @ 5:00 AM 34 DEG. RAINING
05/01/93	10040	05:00 07:00	SAMPLE:98% LIMESTONE - 2 % METAL SHAVINGS FINISH CLEAN & FILL PITS WITH 8.5 PROD. WATER
		07:00 07:30	REPAIR 2" SWACO UNION AND RUBBER
		07:30 08:30	TEST MWD & MUD MOTOR @ 75 SPM @ 800 PSI OK
		08:30 09:00	TIGHTEN AZ GRANT ROTATING HEAD BODY(LEAKING @ FLANGE ON HYDRIL)
		09:00 13:30	RIH W/MM & MWD TO KICK OFF WELL
		13:30 19:30	R/U SDI WIRELINE RIH W/NORTH SEEKING GYRO FOR TF ORIENTATION MADE SEVERAL ATTEMPTS TO LAND SAME COULD'NT LATCH INTO MULE SHOE POH CHECK TOOL TOOL OK P/U KELLY PUMP DP CLEAN RIH W/GYRO AND TAKE 3 READINGS TF @ 51-49-49 POH
		19:30 22:00	DRILL (SLIDE)10014-10020 PUMP 1700 DIFF 100 SPM 65 WOB 12-14K ROP 2.4
		22:00 23:30	ROTATING HEAD FLANGE LEAKING TIGHTEN BOLTS
		23:30 24:00	SERVICE RIG
		24:00 03:00	DRILL (SLIDE)FR 10020-10039 PUMP 1700 DIFF 150-200-SPM 65-WOB 16 K ROP 6.67 FPH FULL RETURNS
		03:00 04:30	RIH W/SDI GYRO SURVEY 4.4 DEG. TF 202 DEG POH
		04:30 05:00	DRILL (SLIDE)FM 10039-10040 MM STALLING W/16 K WOB & 250 PSI DIFF
			MM HRS:6/6 SER. # 475027 DAILEY JARS:FJ47-0011:6/6 ROTATING HEAD HRS:6/6 FUEL:0/8500 WATER RECIEVED:PRODUCTION:520/4103 :FRESH :150/1410 SAMPLES:100 % LIMESTONE

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SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 20

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
05/02/93	10059	05:00 08:30	POH TO CHECK MM & BIT(NO INDICATION OF BEING HUNG UP UP ON CSG OR WINDOW)
		08:30 11:30	L/D MM BIT NOT HURT P/U NEW MM W/1 3/4 BENT HOUSING RIH W/MM & MWD TEST SAME @ 75 SPM 900 PSI OK POH STAND BACK IN DERRICK
		11:30 13:30	N/D AZ GRANT ROTATING HEAD RING GASKET WASHED OUT INSTALL OFR SPACER SPOOL AND N/U SAME CHANGE OUT FLANGE ON ROTATING HEAD
		13:30 14:00	SERVICE RIG
		14:00 18:00	RIH W/NEW BHATO 10001-BREAK CIRC
		18:00 20:00	WORK BIT TO BTM & START SLIDE FR 10040-10041.5 MM STALLING OUT W 2-4K & 50 PSI DIFF. WORK MM IN 20 FT INTERVALS UNTIL BIT WOULD DRILL W/10K WOB & 100 PSI DIFF
		20:00 21:00	SURVEY W/GYRO SET TOOL FACE RELEASE SDI WIRE LINE COMPANY
		21:00 05:00	DRILL (SLIDE) FR 10041.5 TO 10059-MM WOULD NOT EXCEED 75 PSI MM STALLING
			MM HRS:9/9 SER #475045 DAILEY JARS:SER #:FJ47-0011:9/15 ROTATING HEAD RUBBER HRS:9/15 FUEL:0/8500 WATER RECIEVED: PROD.:0/4103 FRESH:150/1560
			LITHOLOGY:100 % LIMESTONE
05/03/93	10066	05:00 06:30	DRILL (SLIDE)FR 10059-10063 W/75 PSI DIFF HAD 3 QUICK FEET STOP DRLG
		06:30 08:00	CIRC SAMPLE UP HAD 25-30 % CEMENT IN SAMPLES TOOK 4 MWD SURVEYS @ DIFFERANT INTERVALS 1ST 2.4,2ND 1.9 3RD 1.8, 4TH 1.6
		08:00 11:30	POH(SLM)FOR BHA CHANGE(MM NOT GETTING ENOUGH DIFF WITH OUT STALLING MOTOR)
		11:30 13:00	L/D MM & SPERRY SUN MWD W/GAMMA P/U NEW MWD WITHOUT GAMMA
		13:00 15:30	WAIT ON MM FROM CASPER
		15:30 16:30	P/U SMITH MM W/2.5 BENT HOUSING RIH & TEST MWD & MM W/800 PSI @ 75 SPM OK
		16:30 20:00	RIH W/NEW BHA FILLING DP EVERY 30 STDS
		20:00 21:00	WAIT ON SDI GYRO TOOLS & TRUCK
		21:00 23:30	R/U SDI GYRO TOOLS & CALIBRATE SAME
		23:30 02:00	RIH W/SDI GYRO AND ORIENT TOOL FACE
	02:00 02:30	TEST MWD	

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SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 20

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
05/04/93	9950.	02:30 05:00	TIME DRILL(SLIDE)ORIENTED W/200 DIFF FR 10059-10063  MM HRS SER # 475045 .5/9.5 MM HRS SER # F47506:3/3 JAR HRS SER# FJ47-0011:3/18 ROT HEAD RUBBER HRS:3/18 FUEL: 0/8500 WATER RECIEVED:PROD:0/4103 :FRESH:0/1560
		05:00 06:30	LITHOLOGY:80% LIMESTONE & 20 % CEMENT TIME DRILL (SLIDE) FR 10066-10074 W/200 PSI DIF 5-10K WOB
		06:30 08:30	RIH W/SDI & RUN GYRO SURVEY ORIENT TOOLFACE POH W/WIRELINE
		08:30 09:00	SERVICE RIG
		09:00 09:30	CYCLE PUMPS CAL. MWD & SURVEY W/SAME TO CORREL ATE W/GYRO
		09:30 14:30	ATTEMPTING TO TIME DRILL HOLE BIT WALKING DOWN HOLE COULD'NT HOLD DIFF DRILL FR 10074-10106
		14:30 15:00	REAM HOLE FR10039-10106
		15:00 19:30	POH TO PUMP CEMENT PLUG BACK TO 9950-L/D BHA
		19:30 23:00	RIH OPEN ENDED TO 10100(108 & DOUBLE STDS.)
		23:00 24:00	CIRC /R/U HOWCO
		24:00 01:15	PLUG BACK W/HOWCO AS FOLLOWS:PUMP 20 BBLS FRESH WATER AHEAD-50 SX AG-250 W/.5% CFR-3 + .3% HR-5 (6 BBLS VOL)YIELD .97 PPG 17-10 BBLS SPACER DIS PLACE W/ 86 BBLS 8.5 PRODUCTION WATER R/D HOWCO
		01:15 01:30	POH W/10 STDS DP
		01:30 02:00	CIRC DP CAP
		02:00 05:00	POH WAIT ON CEMENT  MM HRS:F47506 7/10 JAR HRS:FJ47-0011:7/25 ROT RUBBER HRS:7/25 FUEL:0/8500 WATER:PROD:900/5103 FRESH:400/1960 WEATHER: 34 DEGREES 4 INCHES OF SNOW @ 5:00 AM
05/05/93	10031	05:00 14:00	PLUG INPLACE @ 01:15 05/04/93 WOC(CUT & SLIP 80 FT DRLG LINE RIH TO 9945-NO CEMENT P/U DP AND TAG DP @ 10052-CMT SOFT POH TO 9950
		14:00 18:00	WAIT ON CEMENT (CIRC @ 9950 NO CMT RETURNS)RIH TAG UP ON CEMENT @ 10031 SET 20-25K WOB W/800 PSI PUMP PRESSURE OK

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SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 20

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		18:00 22:00	POH SLM(STRAP 10033 BOARD 10031)
		22:00 03:30	P/U BLACK MAX MM & MWD & BHA & RIH FILLING PIPE EVERY 30 STDS.
		03:30 05:00	R/U AND RIH W/SDI GYRO ORIENT TOOLS
			MM HRS: SER #47525 0/0 JAR HRS:SER # FJ47-0011:0/25 ROT HEAD RUBBER HRS:0/25 FUEL:0/8500 WATER RECIEVED:PROD;0/5103 :FRESH;80/2040 WEATHER:35 DEG. SNOWING
05/06/93	10055	05:00 06:00	FINISH ORIENT TOOLFACE AND POH W/WIRELINE
		06:00 06:30	SERVICE RIG
		06:30 15:30	TIME DRILL (SLIDE)FR 10042-10050 @ 100 PSI DIFF 5-10K WOB MOTOR STALLING(FORMATION SAMPLES 100 % LIMESTONE TRACE OF CEMENT)
		15:30 16:00	CIRCULATE PREPARE TO POH FOR BIT CHANGE
		16:00 16:30	SERVICE RIG
		16:30 20:00	POH FOR BIT CHANGE
		20:00 21:00	M/U DBS TB-26 SIDE TRACK BIT CHANGE MM ANGLE FR 3 DEG.-2 DEG. RIH W/MM & MWD & TEST SAME W/75 SPM & 800 PSI OK
		21:00 00:00	RIH W/NEW BHA FILLING DP EVERY 30 STDS TO 10040
		00:00 00:30	WASH TO BTM 10 FEET OK
		00:30 03:30	P/U RIH W/SDI TO ORIENT TOOLS ORIENT POH W/WIRE LINE
		03:30 05:00	DRILL (SLIDE) W/SIDE TRACK BIT FR 10050-10055
			MM HRS:SER #47525:10.5/19.5 JARS HRS: SER # FJ47-0011:10.5/44.5 ROT HEAD RUBBER HRS:10.5/44.5 FUEL RECIEVED TO DATE:0/8500 WATER TO DATE :PROD:0/5103 :FRESH:80/2120 WEATHER: @ 5:00 AM 37 DEG RAINING MOISTURE LAST 24 HRS:1.9" SNOW FALL 3"
05/07/93	10085	05:00 12:30	DRILL (SLIDE)FR 10050-10085 W/SIDETRACK BIT
		12:30 13:00	CIRCULATE PRIOR TO POHD
		13:00 18:00	POH F/BIT CHANGE AND MM L/D SAME M/U PDC,MM, MWD W/GAMMA PROBE TEST MWD & MM
		18:00 21:00	RIH TO 10040
		21:00 22:00	WASH FROM 10040-10055

**OPERATION SUMMARY REPORT**

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SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 20

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		22:00 24:00	R/U RIH W/SDI GYRO ORIENT & SURVEY POH W/WL
		24:00 03:30	REAM FR 10055 TO 10085 & WORK HOLE CLEAN
		03:30 05:00	RIH W/GYRO AND ORIENT TOOLS POH R/D SDI
			MM SER #:47525:9/28.5 MM SER #:47526:4.5/4.5 JARS SER #:FJ47-0011-:13/57.5 ROT HEAD RUBBERS HRS:13/57.5 FUEL RECIEVED TO DATE:0/8500 WATER TO DATE:PROD:0/5103 :FRESH 80/2200 LITHOLOGY 100 % LIMESTONE WEATHER :37 DEG CLOUDY OCCASIONAL RAIN
05/08/93	10241	05:00 05:30	NOTE: HAD TO BACK REAM ALL 35 FEET OF SIDE TRAC K HOLE MADE SEEMS LIKE SIDE TRACK BIT MIGHT HAVE BEEN SLIGHTLY UNDERGAUGE ORIENT SURVEY MWD
		05:30 08:30	ATTEMPT TO SLIDE W/PDC BIT COULDN'T GET OVER 75 PSI ON MOTOR MOTOR STALLING
		08:30 11:30	POH F/BIT & MM CHANGE
		11:30 13:00	CHANGE BIT & MM INSPECT MWD FOUND BIT DAMAGED 1 BLADE GONE AND THREE INSERTS ON SECOND BLADE (BLADE DOES'NT APPEAR TO HAVE BEEN DAMAGED ON TRIP IN HOLE OR REAMING TO BTM)
		13:00 16:00	RIH W/BHA TO 10066 BREAKING CIRC EVERY 30 STDS
		16:00 16:30	WASH & WORK PAST JUNK 20 FT.
		16:30 04:00	DRILL (SLIDE)F/10086-10241-155 FT WOB 20-40K DIFF 200 PSI
		04:00 05:00	SURVEY'S & CONNECTION'S
			MM HRS:SER#47526:3/7.5 SER # F475062:12.5/12.5 JARS #:FJ47-0011:12.5/70 ROT. HEAD RUBBER HRS:15.5/73 BOILER HRS:24/432 FUEL RECIEVED TO DATE:0/8500 WATER TO DATE :PROD:0/5103 :FRESH:80/2280 LITHOLOGY:100 % LIMESTONE WEATHER @ 5:00 AM 33 DEG SNOWING(SNOWFALL 3 IN.
05/09/93	10307	05:00 09:00	DRILL (SLIDE) F/10241-10268
		09:00 10:00	LOGGING W/GAMMA F/10237-10268
		10:00 13:00	DRILL (SLIDE) F/10268-10307 20-50K WOB 250 DIFF MOTOR BUILDING EXCESSIVE ANGLE
		13:00 16:30	POH F/BIT & MM CHANGE

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SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 20

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		16:30 21:00	P/U NEW MM W/1.5 DEG ORIENT TOOLS TEST MOTOR RIH TO 10042
		21:00 24:30	ROTATE REAMING W/MM FR 10042-10107 HOLE DRAG 40K UP & 20K DOWN FR 10053-10095
		24:30 04:30	POH TO P/U REAMING ASSEMBLY TO OPEN HOLE
		04:30 05:00	L/D MM,MWD STAND BACK MONELS
			MM HRS:SER #F475062:7/19.5 - MM HRS SER # F475063:3.5/3.5 JAR HRS:SER #FJ47-0011:7/77 ROT HEAD RUBBERS:7/80 FUEL RECIEVED:7500/16000 WATER TO DATE:PROD:0/5103 :FRESH:80/2360 LITHOLOGY:100 % LIMESTONE WEATHER @ 5:00 AM CLEAR & 37 DEGREES
05/10/93	10307	5:00 07:30	NOTE: L/D MM SER # F475062 HAD .5" OF PLAY IN BEARING PACK WOT TOOLS( REAMER & STABILIZERS)
		07:30 10:30	RIH W/REAMING ASSEMBLY TO 10001
		10:30 18:30	REAM F/10012-10137 REAMING INTERVAL DATA: 10012-10043 WOB 2-4K RPM 75-80 TORQ 250 10043-10074 WOB 8-10 RPM 75-80 TORQ 250 10074 10106 WOB 2-8 RPM 75-80 TORQ 180 10106-10137 WOB 2-8 RPM 75-80 TORQ 180 HOLE TRYING TO PACK OFF AROUND STABILIZERS PUMP HI VIS PILL
		18:30 22:00	POH TO P/U MM ASSEMBLY
		22:00 22:30	REPAIR TORQUE MASTER LINE AND UNIT
		22:30 01:30	P/U MM & MWD TEST SAME @ 75 SPM @ 800 PSI OK
		01:30 05:00	RIH TO 10,100 FILLING DP EVERY 30 STDS
			MM HRS: # F475063:0/3.5 JAR HRS:# FJ47-0011:0/77 ROT HEAD RUBBER HRS:8/88 FUEL RECIEVED:0/16000 WATER TO DATE:PROD:0/5103 :FRESH:0/2360 LITHOLOGY: 100 % LIMESTONE WEATHER @ 5:00 AM CLEAR 39 DEG NO WIND

**OPERATION SUMMARY REPORT**

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 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 21 TO REPORT No. 26

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY		
05/11/93	10317	05:00 07:30	WASH/REAM F/10001 TO 10085 HOLE STARTING TO PACK OFF TRYING TO MAKE CONNECTIONS		
		07:30 08:30	MIX & PUMP 80 VIS SWEEP		
		08:30 10:30	WASH/REAM F/10085-10106 HOLE STARTING TO PACK OFF AGAIN MADE SEVERAL ATTEMPTS TO MAKE CONNECTION WITH NO SUCCESS PULLED 65K OVER STRING TO GET FREE		
		10:30 11:00	POH 5 STDS INTO CASING		
		11:00 12:30	RIG FLOWLINE DUMP PITS AND FILL W/FRESH WATER MUD UP PITS		
		12:30 15:00	MUD UP SYSTEM AND DISPLACE HOLE W/SAME		
		15:00 22:00	WASH/REAM F/10106 TO 10307 RAISING VIS TO 50 SAMPLES OVER SHAKER INDICATED NUMEROUS % OF FRAC SAND AND FINE MICA HOLE STARTED CLEANING UP SHAKER SCREENS LOADED UP F/10106 TO 10280		
		22:00 23:00	DRILL (SLIDE) F/10307-10315-PUMP PRESS INCREASING F/2050 TO 2200		
		23:00 23:30	WASH/REAM F/10307-10315		
		23:30 01:00	DRILL (SLIDE) F/10315-10317 PUMP PRESS INCREASING F/2200-2300-PENETRATION RATE DECREASING		
		01:00 05:00	PUMP PILL POH F/BIT & MM MM BEARING PACK FAILED POH WET MM SER # HRS:47526:18/22.5 JAR HRS:SER # FJ47-0011:18/75.5 ROT HEAD RUBBER HRS:18/75.5 FUEL RECIEVED TO DATE:0/16000 FLUID RECOVERY TO DATE:0/360 WATER TO DATE:PROD:0/5103 :FRESH:600/2800 LITHOLOGY:100 LIMESTONE W/TRACES OF FRAC SAND & CEMENT WEATHER @ 5:00 AM CLEAR & 40 DEGREES NOTE: PEA GRAVEL SIZE CUTTINGS COMING OVER SHAKER @ 10315 RAISE VIS TO 55 CUTTINGS CLEANING UP		
		05/12/93	10398	05:00 07:30	CHANGE OUT MM CK MWD & TEST SAME @ 70 SPM 800 PSI
				07:30 11:00	RIH FILLING DP EVERY 30 STDS TO 10204
11:00 14:00	WASH/REAM F/10204-10317 (113 FT) HOLE UNLOADED LARGE AMOUNT OF PEA GRAVEL SIZE CUTTINGS THEN CLEANED UP TO NORMAL CUTTINGS NO FRAC SAND SEEN				
14:00 15:00	DRILL (SLIDE) F/10317-10326 DIFF 150 # TF 7R ROP 9 FPH				
15:00 16:30	TEST & CALIBRATE MWD TOOL AND DATA				
16:30 03:00	DRILL (SLIDE) F/10326-10398 DIFF 150 10 R/L 70 SPM WOB 50-60				

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### SUMMARY OF OPERATIONS FROM REPORT No. 21 TO REPORT No. 26

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		03:00 03:30	SHORT TRIP 3 STDS (P/U WT 15-20K OVER STRING)
		03:30 05:00	DRILL (SLIDE)F/10389-10398 WOB 40-60 DIFF 150 SPM 70 TF 25R
			MM SER #:47525:16/16 JAR HRS:SER #:FJ4-0011:16/91.5 ROT HEAD RUBBER HRS:20/95.5 FUEL RECIEVED TO DATE:0/16000 FLUID RECOVERY TO DATE:0/360 WATER TO DATE:0/5130 :120/2920 FRESH LITHOLOGY: 100 % LIMESTONE
05/13/93	10539	05:00 09:30	DRILL (SLIDE) F/10398-10421 DIFF 150 - SPM 75 ROP 5.1
		09:30 10:00	SURVEY & ORIENT TF 30R
		10:00 11:00	DRILL (SLIDE) F/10421-10425 DIFF 150 SPM 75 ROP 4 FPH
		11:00 11:30	WIPER TRIP 5 STDS DRAG 15K
		11:30 15:30	DRILL (SLIDE) F/10425-10452 DIFF 200 SPM 75 ROP 6.75 FPH TF 30R
		15:30 16:00	SURVEY & ORIENT TF TO 30R
		16:00 05:00	DRILL (SLIDE) F/10452-10539 DIFF 250 TF 50-60R ROP 6.69 FPH
			MM HRS SER #:47525:23.5/39.5 JAR HRS:SER # F4J-0011:24/115.5 ROT HEAD RUBBER HRS:24/119.5 FUEL RECIEVED TO DATE:0/16000 FLUID RECOVERY TO DATE:0/360 WATER TO DATE:PROD:0/5103 :FRESH:80/3000 LITHOLOGY: 100 % LIMESTONE 10-15 U GAS
05/14/93	10667	05:00 06:00	WEATHER @ 5:00 AM: CLEAR 47 DEG EXPECTED HIGH 80 DRILL (SLIDE) F/10539-10540 MM STALLING OUT DIFF FROM 200-450
		06:00 10:30	POH (SLM)BOARD 10540-STRAP 10544.69 CORR 4.69 DRAG OUT OF OPEN HOLE 15K
		10:30 14:00	PU BHA & TOOLS TEST SAME TO 70 SPM & 800 PSI
		14:00 15:30	CUT 114 FT DRLG LINE RIG SERVICE
		15:30 18:00	RIH FILLING DP EVERY 30 STDS TO 10450
		18:00 18:30	WASH 90 FT TO BTM 5 FT OF FILL
		18:30 03:00	DRILL (SLIDE) F/10544-10636-DIFF 125 PSI TF 30R ROP 10.8

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SUMMARY OF OPERATIONS FROM REPORT No. 21 TO REPORT No. 26

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		03:00 04:30	DRILL (ROTATE) F/10636-10667 ROP 20.6 RPM 40
		04:30 05:00	SURVEY ORIENT TF 10-15L  MM HRS SER #47525:1/57.5 JAR HRS SER #F4J-0011 ROT HEAD RUBBER HRS:24/115.5 FUEL RECIEVED TO DATE:0/16000 WATER TO DATE:PROD :FRESH LITHOLOGY  WEATHER REPORT @ 5:00 AM ECTED TODAY 80 DEG
05/15/93	10941	05:00 09:30	NOTE DRILL (SLIDE)DIFF 100-150
		09:30 18:30	DRILL (ROTATE)ROP 24 FPH
		18:30 22:00	SURVEY & TF ORIENTATION  ROTATE                      SLIDE 10688-10698            10667-10688 25R DIFF 100 10713-10718            10698-10713 20R DIFF 125 10728-10788            10718-10728 15R DIFF 100 10793-10820            10788-10793 20R DIFF 125 10826-10941            10820-10826 20R DIFF 125
		22:00 23:00	CIRCULATE F/SAMPLES @ 10941 GAS 860 U
		23:00 03:00	POH F/BHA CHANGE
		03:00 05:00	P/U MM & CHANGED OUT MWD TEST SAME TO 800 PSI 70 SPM  MM HRS SER #47526 JAR HRS SER F4J-0011:17/144.5 ROT HEAD HRS:24/139.5 FUEL RECIEVED TO DATE:0/16000 WATER TO DATE:PROD :FRESH:90/3250 LITHOLOGY:100 % LIMESTONE WEATHER REPORT @ 5:00 AM 46 DEG PARTLY CLOUDY
05/16/93	11259	05:00 09:00	RIH FILLING DP EVERY 30 STDS TO 10711
		09:00 10:00	WASH/REAM F/10711-10941
		10:00 14:00	DRILL (SLIDE) 76 FT ROP-19FPH
		14:00 20:00	DRILL (ROTATE)240 FT ROP-40.3 FPH  ROTATE                      SLIDE 10941-11043 40 RPM 11043-11058 TF 20L 125 DIFF 11058-11106 40 RPM 11106-11121 TF 30L 125 DIFF 11121-11135 40 RPM 11135-11150 TF 15L 125 DIFF 11150-11166 40 RPM 11166-11197 TF 25L 125 DIFF 11197 11259 40 RPM

**OPERATION SUMMARY REPORT**

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SUMMARY OF OPERATIONS FROM REPORT No. 21 TO REPORT No. 26

**DATE DEPTH TIME WORK DESCRIPTION DIARY**

20:00 03:00 SURVEY & TF ORIENTATION

03:00 05:00 DRILLING AHEAD @ 11121-11124 LOST CIRC COMPLET  
ELY LOST 556 BBLs OF FLUID WORK DP PUMP 8.4+  
WATER DOWN HOLE GAINED COMPLETE RETURNS BTMS  
UP GAS 120 UNITS WITH NO SHOWS CIRC THROUGH  
SKIMMER TANKS THROUGH GAS BUSTER FOR REMAINDER  
OF WELL

MM HRS SER #N520:19/19  
JAR HRS SER # F4J-0011:19/163.5  
ROT HEAD RUBBER HRS:24/163.5  
FUEL RECIEVED TO DATE:0/16000  
WATER TO DATE:PROD:0/5130  
:FRESH:120/3370  
LITHOLOGY: 100% LIMESTONE  
WEATHER REPORT @ 5:00 AM

FRANK MATHEWS W/UTAH OIL & GAS ON LOCATION FOR  
INSPECTION ON 5/15/93-OK

**OPERATION SUMMARY REPORT**

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SUMMARY OF OPERATIONS FROM REPORT No. 27 TO REPORT No. 35

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
05/17/93	11570	05:00 09:45	DRILL (ROTATE) 180 FT ROP 37.89
		09:45 22:15	DRILL (SLIDE) 111 FT ROP 8.8
		22:15 02:15	SURVEY & TF ORIENTATION
		02:15 04:30	CIRCULATE F/SAMPLES (NOT GETTING ANY CUTTINGS)
		04:30 05:00	SERVICE RIG
			ROTATE                      SLIDE 11259-11275 SPM 70 DIFF 150 11275-11290 RPM 40    11290-11300 SPM 70 DIFF 200 11300-11353 RPM 40    11353-11365 SPM 70 DIFF 150 11365-11416 RPM 45    11416-11431 SPM 70 DIFF 150 11431-11479 RPM 45    11479-11497 SPM 70 DIFF 150 11497-11510 RPM 45    11510-11570 1PM 70 DIFF 150  MM HRS SER # N520:19/42.5 JAR HRS SER # F4J-0011:19/182.5 FUEL RECIEVED TO DATE:0/16000 ROT HEAD RUBBER HRS:19/43 WATER RECIEVED TO DATE  LITHOLOGY : 100 % LIMESTONE  NOTE ATED 250/HR WHEN CIRCULATING WELL LOSING DUE TO ECD  ALSO:GEOLOGISTS THINKS FORMATION IS DIPPING 9.0 DEG UP HARD TIME GETTING SAMPLES SWEEPING HOLE EVERY 60 FT NOT GETTING HARDLY ANY CUTTINGS BA CK NO SHOWS MAXIMUM GAS ON CONNECTION 1400 U  WEATHER REPORT @ 5:00 AM 39 DEG CLEAR
05/18/93	11871	05:00 13:30	DRILL (ROTATE)231 FT ROP 27.2 FPH
		13:30 23:00	DRILL (SLIDE) 70 FT ROP 7.37 FPH
		23:00 03:00	SURVEY & TF ORIENTATION

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SUMMARY OF OPERATIONS FROM REPORT No. 27 TO REPORT No. 35

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			ROT HEAD RUBBER HRS:24/67 WATER RECIEVED TO DATE:700/4200:FRESH :0/5100 :PROD.  LITHOLOGY: 100 % LIMESTONE MAX GAS 310 U @11850  NOTE:AFTER MAKING A CONNECTION KICKED IN AUTO MATIC DRILLER AND PULLED BRAKE HANDLE UP & SLA CKED ALL WT ON KELLY AND BENT KELLY WILL CHANGE OUT ON NEXT TRIP  WEATHER REPORT @ 5:00 AM 39 DEG CLEAR FLARE LENGTH 5FT EXPANDING TO 20 FT SOMETIMES DRILL (SLIDE)F/11870-11875 TF 20R DIFF 150
05/19/93	11875	05:00 05:30	
		05:30 06:00	SURVEY
		06:00 08:00	START TO P/U TO POH F/BIT HOLE TIGHT REAM TO B TM P/U AND PIPE STUCK ABOVE BIT MM TURNING MIX & PUMP HI VIS PILL AND PUMP SAME PIPE CAME FREE REAM HOLE SEVERAL TIMES OK
		08:00 09:30	CIRC OUT SWEEP GOT BACK LARGE AMOUNT OF CUTTING S VERY FINE
		09:30 10:00	FLOW BACK WELL WITH PUMP SHUT DOWN FLOWED 43 BBLs BACK WELL QUIT FLOWING AFTER 30 MINS TIME
		10:00 17:00	POH F BIT & MM - L/D SAME(HOLE TOOK 60BBLs OVER TO KEEP FULL)
		17:00 23:30	L/D & CHANGE OUT BENT KELLY N/D ROT HEAD & ADD 4 FT SPACER SPOOL TO INSTALL 10" FLOWLINE N/U SAME
		23:30 03:30	M/U BHA RIH TO 10246 HIT TIGHT SPOT P/U KELLY
		03:30 05:00	WORK TIGHT HOLE MIX & PUMP HI VIS PILL WORK HOL
			MM HRS SER #:472014 FUEL RECIEVED TO DATE ROT HEAD RUBBER HRS WATER RECIEVED TO DATE:FRESH 2000/6200 :PROD 0/5100 WATER LOST TO DATE:2745/2745 LITHOLOGY:100 % LIMESTONE WEATHER REPORT @ 5:00 AM DEG CLEAR
05/20/93	11907	05:00 24:00	REAM HOLE F/10176-11875(1699 FT)PUMP NUMEROUS SWEEPS HOLE STILL TIGHT & SEVERAL BRIDGES STOP @ 11233 COULDN'T GO ANY DEEPER P/U ROTATE AND MUD UP TOTAL SYSTEM W/GEL & LIME TO A 38-40 VIS HOLE SEEPING & ON OCCASIONS LOST TOTAL RETURNS FOR A TOTAL OF 496 BBLs DRAG WHILE REAMING FROM 25-70 BEFORE GET HOLE CLEANED UP CUTTINGS F/ 10234-10650 ON SWEEPS WERE PEA GRAVEL SIZE NO ERAC SAND SAMPLES F/11109-11410 SLIVERS AND SOM E LIMESTONE, SHALE, & CALCITE MAXIMUM GAS AT ANY TIME DURING THE REAMING INTERVAL WAS 5000 U @ 11689 MD

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SUMMARY OF OPERATIONS FROM REPORT No. 27 TO REPORT No. 35

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		24:00 01:00	DRILL (SLIDE) 3 FT ROP 3 FPH
		01:00 03:30	DRILL (ROTATE)29 ROP 11.6
		03:30 04:30	SURVEY & TF ORIENTATION
			ROTATE SLIDE 11875-11899 RPM 40-11899-11902 TF 170R DIFF 200 11902-11907 RPM 40
		04:30 05:00	REAM TIGHT HOLE @11875-11902 MM HRS SER#:472014 ROT HEAD RUBBER HRS:67/72 FUEL RECIEVED TO DATE:0/23000 WATER RECIEVED TO DATE:600/6800 FRESH :0/5100 PRODUCTION WATER LOST TO DATE:800/3745
05/21/93	11982	05:00 09:30	LITHOLOGY: 100 % LIMESTONE MAX GAS 5000 U WEATHER @ 5:00 AM 45 DEG CLEAR ACTUAL BIT HRS:24 (INCLUDES REAMING & SURVEY) DRILL (SLIDE)11 FT ROP 2.44 FPH
		09:30 15:45	DRILL (ROTATE) 64 FT 10.24 FPH
		15:45 18:15	SURVEY & LOG & ORIENT TF
		18:15 20:00	ATTEMPT TO MAKE 5 STD SHORT TRIP COULDN'T GET DP IN HOLE PULLED 40-50K OVER STRING WEIGHT ON TRIP OUT L/D 15 JTS DP RIH AND WASH TO BTM
		20:00 03:00	POH F/BIT CHANGE TO BHA R/U AMERICAN PIPE L/D MACHINE TO L/D 4" DP(104 JNTS)
		03:00 05:00	P/U NEW BHA RIH P/U 3.5 DP(5 JNTS PICKED UP @ 5:00 AM)
			NOTE: ATTEMPTED TO SLIDE HAVING NO SUCCESS GET TING WEIGHT TO BIT STOP DRILLING
			SPOT HI VIS PILL F/11982-10100 45 BBLs MM HRS SER#:472014 ROT HEAD RUBBER HRS:22/94 FUEL RECIEVED TO DATE WATER RECIEVED TO DATE
			WATER LOST TO DATE LITHOLOGY:100 % LIMESTONE MAXIMUM GAS @ 11949 1400 TRACES OF OIL IN MUD EACH BTMS UP CIRCULA TION WEATHER @ 5:00 AM 54 DEG PARTLY CLOUDY & WINDY ACTUAL BIT HRS:13/38 PU DP TRIP IN HOLE
05/22/93	11997	05:00 08:00	
		08:00 09:00	R/D AMERICAN PIPE TEST MWD OK
		09:00 09:30	SERVICE RIG

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SUMMARY OF OPERATIONS FROM REPORT No. 27 TO REPORT No. 35

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		09:30 12:30	RIH TO 12241 HIT TIGHT SPOT P/U KELLY
		12:30 01:00	WASH/REAM F/10241-11982-HIT SEVERAL BRIDGES THROUGH OUT THE HOLE HOLE SEEMS TO BE TAKING 40 SHIS PER HR FLUID(CAN'T SEEM TO RIH WITH OUT WASHING EACH JOINT DOWN FROM KOP TO TD)
		01:00 02:30	SURVEY & ORIENT TF @ 180
		02:30 03:00	SERVICE RIG
		03:00 04:00	DRILL (ROTATE)F/11982-11993 ROP 11 FPH
		04:00 04:30	SURVEY
		04:30 05:00	DRILL (SLIDE)F/11993-11997 TF 180 DIFF 125 70 SPM ROP 8.2 FPH
			MM HRS SER # ROT RUBBER HRS:16/110 WATER RECIEVED TO DATE:2500/9550 FUEL RECIEVED TO DATE:0/23000 WATER LOST TO DATE:1100/5245 ACTUAL BIT HRS:16/16 LITHOLOGY:100 % LIMESTONE MAX GAS 795 U WEATHER REPORT: @ 5:00 AM 49 DEG 1.5" RAIN PARTLY CLOUDY
05/23/93	12118	05:00 11:30	DRILL (SLIDE)23 FT ROP 3.53 FPH
		11:30 15:00	DRILL (ROTATE) 98 FT ROP 28.00 FPH
		15:00 20:00	SURVEY,LOG, & ORIENT TF'S
		20:00 22:00	WORK TIGHT HOLE PUMP HI VIS SWEEP @ 11977,12048,12079
			ROTATE SLIDE 11997-12017 DIFF 150 TF 176L 12017-12047 RPM 45 12047-12050 DIFF 125 TF 180 12050-12118 RPM 45
		22:00 04:00	POH F/BIT L/D 45 JTS 4"(TO WASH TO BTM WITH)SLM
		04:00 05:00	CHECK MM & MWD TEST SAME OK
			MM HRS SER #:42017 ROT HEAD RUBBER RHS:19/129 WATER RECIEVED TO DATE:600/10150 FUEL USED TO DATE:0/23000 WATER LOST TO DATE:200/5445 BBLs ACTUAL BIT HRS:17/33 WEATHER REPORT @ 5:00 AM LITHOLOGY FLARE SIZE:0-5 FT ON MAX GAS
05/24/93	11556	05:00 05:30	FINISH TEST MWD & MM
		05:30 06:30	SLIP & CUT DRILL LINE 114 FT
		06:30 11:30	RIH TO 10109-FILL DP EVERY 30 STDS L/D 15 JTS

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SUMMARY OF OPERATIONS FROM REPORT No. 27 TO REPORT No. 35

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			HIT TIGHT SPOT @ 10109-P/U KELLY BREAK CIRC
		11:30 18:30	WASH/REAM F/10109-11544 W/5K WOB & 30 RPM ON ROTARY 300 PSI DIFF HOLE DRAG AFTER REAMING 15K OVER STRING WT.
		18:30 20:00	SURVEY & ORIENT TF TO LS HOLE TF 179
		20:00 05:00	TIME DRILL TO LS HOLE F/11544-11556 DIFF 50-150 TF 179L SPM 70
			MM HRS SER #42017 ROT HEAD RUBBER HRS:16/145 WATER RECIEVED TO DATE:180/10330 FUEL USED TO DATE ACTUAL BIT HRS LITHOLOGY FLARE SIZE:
05/25/93	11630	05:00 16:30	WEATHER REPORT:@ 5:00 AM PARTLY CLOUDY & DEG TIME DRILL FROM 11556-11567 @ 10 MIN PER INCH 75-100 PSI DIFF P/U AND WORK 11544-11567 NO ST
		16:30 17:00	RIH TO 11619
		17:00 18:00	SURVEY & ORIENT TF TO LS HOLE
		18:00 05:00	TIME DRILL F/11619-11630 @ 10 MIN PER INCH P/U AND RE TIME DRILL SAME INTERVAL NO SUCCESS SET DOWN ON AREA W/10K WOULDN'T HOLD WT
			MADE SEVARAL AL ATEMPTS OVER AN INTERVAL OF 86 FT WITH DIFF PARAMETERS WITH NO SUCCESS WILSON DIRECTIONAL BELIEVES THAT THE REASON FOR NOT BEING ABLE TO LS IS DUE TO LONG GUAGE PROTECTION ON PDC(3.5")
			MM HRS SER # 42017 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL USED TO DATE:0/23000 ACTUAL BIT HRS LITHOLOGY:100 % LIMESTONE FLARE SIZE WEATHER REPORT @ 5:00 AM CLEAR 42 DEG

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SUMMARY OF OPERATIONS FROM REPORT No. 36 TO REPORT No. 41

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
05/26/93	11550	05:00 10:30	POH F/BHA CHANGE COULDN'T GET SIDE TRACK W/ASSY IN HOLE(PDC NOT DAMAGED FULL GAUGE)
		10:30 11:30	PU DRILEX MM, CHECK MWD & TEST SAME @ 75 SPM 800 PSI OK M/U BIT RIH TO 11544 FT.
		11:30 15:30	RIH FILL PIPE 30 STDS.
		15:30 16:00	WASH/LAST 60 FT, TO BOTTOM, ORIENT TF.
		16:00 05:00	TIME DRILL 10 MPI. LS, 11,544 TO 11550 FT. NO DIFF. IN PP. WILL START TIME DRLG 5 MPI. AT 11550 FT.
			MM HRS SER #:31720 ROT HEAD RUBBER HRS13/182 WATER RECIEVED TO DATE:0/13575 WATER LOST TO HOLE TO DATE:/7845 BBLs. FUEL RECIEVED TO DATE:0/23000 ACTUAL BIT HRS: 13 HRS. FLARE SIZE LITHOLOGY WEATHER @ 5:00 AM CLOUDY,42 DEG.WIND CALM. FLUID RCOVERY TO DATE:0/340
05/27/93	11727	05:00 20:00	(ST #2) TIME DRILL 10 MPI.11544-11550 5 MPI 11550-11555 FT. PIPE WOULD WALL STICK WOULD STACK OUT 60M WT. WOULD HAVE TO PU WORK FREE.EVERY 5-6 INCHES OF DRLG. HAD 80 TO 100 PSI DEFERENTIAL WHILE TIME DRLG. TIME DRILL 3 MPI 11555-11561 FT. 2 MPI.11561-11567 FT. 1 MPI 11567-11573 FT. ATTEMPT TO SET STRG WT ON BIT AFTER TIME DRLG 29 FT. HAD NO LEDGE.
		20:00 22:00	DECISION WAS MADE TO PU 5 JTS. DP. TO 11724 FT. TO ATTEMPT ST #3. WORK PIPE FREE AT 11724 TO 11755 FT.IN ATTEMPT TO KEEP FROM WALL STICKING.
		22:00 05:00	TIME DRILL 10 MPI FROM 11724 -17727 IT TAKES 18-20 M BIT WT TO DRILL.HAVE NOT HAD ANY WALL STICKING ON SIDE TRACK #3 IN FIRST 3 FT.
			MM HRS.SER.#:31720 24 HRS. CUM 37HRS. ROT HD. RUBBER HRS/24 CUM 206 HRS WATER RECEIVED TO DATE 2140 BBLs CUM 15715 BBLs WATER LOST TO HOLETO DATE/7995 BBLs. FUEL RECEIVED TO DATE/23000 GALS. ACTUAL BIT HRS.37 HRS. FLARE SIZE/ NONE LITHOLOGY 100% LIMESTONE WEATHER 0500,CLEAR,CALM,40 DEG. FLUID RECOVERED TO DATE 0/340 BBLs.
05/28/93	11634	05:00 14:00	TIME DRILL ON ST #3 FROM 11724 FT. 10 MPI FROM 11724 TO 11729,7 MPI 11729 TO 11732, 5 MPI 11732 TO 11738 FT. DID NOT BUILD A LEDGE FOR KICK OFF.
		14:00 18:00	POOH TO CK BHA.LEFT BIT PLUS 8.33 FT. OF MOTOR W/ THE ROTOR STICKING OUT.IN HOLE.THE FACE OF THE BREAK SHOWED WASH MARKS.THE BREAK WAS AT BOTTOM OF THE THREADS ON MOTOR HOUSING.
		18:00 20:00	PU A DRILEX MOTOR W/ NO BEND W/ 2 1/4 BENT SUB ON TOP. KELLY UP CK. TOOLS. RIH, FILL PIPE EVERY 30 STDS.TAG IRON IN HOLE 11738 FT.
		20:00 02:00	WORK TO PUSH IRON DOWN HOLE.COULD NOT

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SUMMARY OF OPERATIONS FROM REPORT No. 36 TO REPORT No. 41

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
05/29/93	11676	02:00 05:00	SLIDE IRON AT ALL.LD 4 JTS.TO START SIDE TRACK AT 11632 FT. 106 FT BEHIND IRON. WORK TROUGH IN. START TIME DRILL AT 11632 FT. TIME DRILL 10 MIN PER IN. 11632 TO 11634 FT.
		05:00 13:00	MM HRS. SER. #:JG-51 ROT.HD. RUBBER HRS/ 11.5 CUM.217.5 HRS WATER RECEIVED TO DATE. 2120/ 17835 BBLs. WATER LOST TO HOLE TO DATE 350/8345 BBLs FUEL RECEIVED TO DATE.0/23000 GALS. ACTUAL BIT HRS.BIT # 17 3 HRS. FLARE SIZE/NONE LITHOLOGY 100% LIMESTONE WEATHER 0500 HRS. COULDY, 50 DEG. F. FLUID RECOVERED TO DATE 0/340 BBLs. TIME DRILL 10 MPI 11634 - 11637 ,5 MPI 11637-11642, 2 MPI 11637-11642 FT.APEARED TO BE SIDE TRACKING.DRILLED FROM 11642 TO 11687 FT. SURVEY SHOWED SAME AS 1ST. HOLE.
		13:00 04:00	REDRILL.TIME DRILL 11643 TO 11676 FT. APPEARS TO HAVE CUT LEDGE.SET 75M STRG WT.ON LEDGE WITH PUMP OFF. PLUS SET 75M ON LEDGE WITH PUMP ON.ATTEMPT TO DRILL W/ 40-60 M BIT WT. DID NOT GET PUMP PRESS INCREASE OR REACTIVE TORQUE.
05/30/93	11724	04:00 05:00	POOH TO CK MOTOR AND BIT.  MM (SER. #:JG-51) 23 HRS, CUM 27 HRS. ROT. HD. RUBBER 23 HRS. CUM.240.5 HRS. WATER RECEIVED TO DATE.1240/19075 BBL WATER LOST TO HOLE 1240/9585 BBLs. FUEL RECEIVED TO DATE 7500/30500 GALS. ACTUAL BIT#17 HRS.27 HRS. FLARE SIZE NONE LITHOLOGY 100% LIMESTONE WEATHER 0500 HRS. 47 DEG. F. FLUID RECOVERED TO DATE 0/340 BBLs.
		06:00 08:30	POOH TO CK.BHA. LD MOTOR W/ BEARING AND SEAL FAILURE. PU SECURITY MM W/1.25 DEG BEND.CHANGE MWD PROBE. KELLY UP CK.TOOLS.
		08:30 10:30	RIH, FILL PIPE EVERY 30 STDS. TIME DRILL 1 MPI. FROM 11640 TO 11724 FT TIME DRILL 145 TO R. SURVEY AT 11724 MD. SHOWS NO SIDE TRACK.
05/31/93	11755	10:30 14:00	MM(SER. #:JG-51)23 HRS. SEAL& BEARING FAILURE. ROT.HD.RUBBER 16/256.5 HRS. WATER RECEIVED TO DATE.560/19635 BBLs. WATER LOST TO HOLE560/10,145 BBLs. FUEL RECIEVED TO DATE.0/30500 GALS. BIT #18 ACTUAL HRS.16 HRS. FLARE SIZE NONE LITHOLOGY-100 LIMESTONE FLUID RECOVERED TO DATE 0/340 BBLs.
		14:00 06:00	TIME DRILL 1 MPI.11724-11755 FT. DRILLED PAST FISH. STARTED TO BUILD ANGLE DID NOT HAVE ANY REACTIVE TORQUE OR DIFFERENTIAL.
		05:00 11:30	

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
AFE No. :014674  
FIELD :ELKHORN

WELL No. :19-2  
API No. :49-043-30068  
RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 36 TO REPORT No. 41

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		11:30 12:00	SURVEY,CK SHOT SURVEY ON BOTTOM PLUS PULL UP 30 FT. SURVEYED. SURVEYS CK. TO BE GOOD.
		12:00 16:00	POOH,TO CK.BHA LEFT BIT PLUS BIT BOX OF MM. IN HOLE. SLM 11780' DRILLERS DEPTH 11755 FT. BHA WAS OFF 25' NO CORRECTION.
		16:00 05:00	RELEASED WILSON DOWN,LD WILSONS TOOLS,WO GREAT LAND TOOLS.UNLOAD AND PU GREAT LAND TOOLS
			MM(SER# 42014)22.5 HRS.CUM ROT HD.RUBBER HRS. 6.5/22.5 HRS WATER RECEIVED TO DATE 0/19635 BBLs. WATER LOST TO HOLE 640/10,785 BBLs FUEL REIVED TO DATE 0/30500 GAL. BIT# 18 ACTUAL HRS.22.5 HRS. FLARE SIZE NONE LITHOLOGY 100% LIMESTONE FLUID RECOVEED TO DATE 0/340 BBLs.

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/01/93	11562	05:00 08:00	LD WILSONS TOOLS,WO GREAT LAND TOOLS, PU GLDD MM 2 1/4 DEG. BEND,PLUS MWD. SURFACE TEST.
		08:00 15:00	RIH,FILL EVERY 30 STDS. HAD TO WORK PIPE FROM 11157 TO 11537 FT.
		15:00 24:00	WORK TROUGH FROM 11537 TO 11552. TIME DRILL 11552-11562 PIPE WOULD WALL STICK WHILE TIME DRLG.
		24:00 05:00	POOH TO CK BIT.
			GLDD MM. SER #50301 12/12 HRS.CUM. ROT HEAD RUBBER HRS. 14/277 HRS. WATER RECEIVED TO DATE. 1000/20635 BBLs. WATER LOST TO HOLE 560/11345 BBLs.CUM. FUEL RECEIVED TO DATE.0/30500 GALS. BIT #19 (SEC S3J)(364061) 9HRS. FLARE SIZE. NONE FLUID RECOVERED TO DATE 0/340 BBLs
06/02/93	11563	05:00 06:00	FINISH TRIP OUT TO P/U WATERMELON MILL ASSY.
		06:00 10:30	P/U BHA & RIH TO 10009
		10:30 15:30	WASH/REAM W/WATERMELON MILL F/10009-11202
		15:30 19:30	POH WET TO P/U SIDETRACK ASSY TO LOW SIDE HOLE
		19:30 20:30	L/D BHA
		20:30 21:00	PU SIDETRACK ASSEMBLY (2.25 DEG GLMM)
		21:00 21:30	SURFACE TEST MM & MWD TO 70 SPM 650 PSI
		21:30 01:00	RIH TO 10536 HIT TIGHT SPOT P/U KELLY
		01:00 03:30	WASH/REAM F/10536-10596 RIH TO 10720 WASH/REAM F/10720-10780 RIH TO 11243 WASH/REAM F/11243-11303 RIH TO 11458 WASH/REAM TO BTM F/11458-11562
		03:30 04:00	SURVEY & ORIENT TF
		04:00 05:00	TIME DRILL @ 3 MIN/FOOT F/11562-11563
			GLDD MM HRS SER #50301 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE:300/20935 WATER LOST TO HOLE FUEL RECIEVED TO DATE ACTUAL BIT HRS FLARE SIZE FLUID RECOVERED TO DATE
06/03/93	11611	05:00 18:30	WEATHER @ 5:00 AM PARTLY CLOUDY 48 DEG TIME DRILL F/11563-11604-TF 177R 65 SPM(41 FT)
		18:30 20:00	SURVEY & TF ORIENTATION
		20:00 00:30	POH F/BIT CHANGE

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/04/93	11572	00:30 05:00	RIH W/TBT-521 DBS TSP BIT (TEST MM & MWD @ 750 PSI 70 SPM)  GLDD MM HRS SER # ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE:0/30500 WATER LOST TO HOLE ACTUAL BIT HRS(913787)15/18.5 FLARE SIZE FLUID RECOVERY TO DATE LITHOLOGY WEATHER @ 5:00 AM CLOUDY 36 DEG .75" RAIN LAST 24 HRS
		05:00 07:00	FINISH RIH TO 11342
		07:00 08:30	WASH/REAM F/11342-11545
		08:30 10:00	WORK LEDGE AND ORIENT TF @ 166 R
		10:00 05:00	TIME DRILL F/11545-11572 11545-11550 5 FT @ 5 MIN/IN. 11550-11560 10 FT @ 4 MIN/IN. 11560-11572 12 FT @ 2 MIN/IN  GLDD MM SER # 50301 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE WATER LOST TO HOLE ACTUAL BIT HRS FLARE SIZE:NONE FLUID RECOVERY TO DATE:0/340 LITHOLOGY WEATHER REPORT @ 5:00 AM CLEAR & 31 DEG POSSIB LE SNOW TONIGHT
06/05/93	11578	05:00 14:00	NOTE HOLE @ SEVERAL INTERVALS WITHOUT THE PUMP TIME DRILL F/11572-11578( 6 FT)
		14:00 17:00	REAM & WORK LEDGE 3 TIMES 1 HR EACH TIME SET 65K DOWN DIDN'T SLIP OFF HAD A HARD TIME FIRST TIME GETTING BACK INTO GROOVE
		17:00 21:30	POH F/BIT & MM CHANGE
		21:30 23:30	L/D MM & CHANGE OUT MWD PROBE ADJUST MM TO 1.25 DEG TEST MM & MWD W/70 SPM @ 700 PSI OK
		23:30 24:00	SERVICE RIG
		24:00 04:00	RIH W/NEW BHA FILLING DP EVERY 30 STDS TO 11515
		04:00 04:30	WASH/REAM F/11515-11545
		04:30 05:00	WORK & OPEN HOLE F/11545-11578

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
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			GLDD MM HRS SER 50301 GLDD MM HRS SER #50308 ROT HEAD RUBBER HRS WATER RECIEVED:400/21655 FUEL RECIEVED:7800/38300 WATER LOST TO HOLE ACTUAL BIT HRS FLARE SIZE FLUID RECOVERY TO DATE LITHOLOGY WEATHER REPORT @ 05:00 CLOUDY,RAIN 34 DEG
06/06/93	10442	05:00 14:00	NOTE WEIGHT TO BIT P/U AND WORKED HOLE TO FREE UP SAME WASH/REAM & WORK HOLE F/11572-11583 W/40 RPM & 70SPM 2200 PSI SET DOWN ON LEDGE NUMEROUS TIMES W/65K OK STARTED ROTATING AND WORKING DOWN LEDGE LOST LEDGE RE ORIENT FOUND LEDGE WORK SAME A GAIN ATTEMPTED TO ROTATE AGAIN WITH NO SUCCESS START ROTATING DOWN CHASING OLD HOLE
		14:00 19:00	POH TO P/U SIDE TRACK ASSEMBLY
		19:00 20:00	PU BHA & TOOLS CHECK MWD & TEST SAME M/U BIT
		20:00 21:00	SLIP & CUT DRILL LINE 114 FT
		21:00 01:00	RIH W/SIDE TRACK ASSEMBLY FILLING PIPE EVERY 30 STDS TO 10440 STRAP IN HOLE
		01:00 04:00	WORK GROOVE IN HOLE F/10425-10442 & ORIENT TF @ 175 R
		04:00 05:00	TIME DRILLING @ 10 MIN/INCH F/10442
			GLDD MM HRS SER # 50308 ROT HEAD RUBBER HRS ATER RECIEVED FUEL RECIEVED TO DATE WATER LOST TO HOLE ACTUAL BIT HRS:SER # 34621 ACTUAL BIT HRS:SER # 551328:4/4 FLARE SIZE LITHOLOGY WEATHER REPORT @ 05:00 PARTLY CLOUDY 41 DEG WORK GROOVE & BUILD LEDGE F/11425-11442
06/07/93	10493	05:00 06:00	
		06:00 23:00	TIME DRILL TO SIDETRACK HOLE 10442-10447 TF 180-170 R @ 5 MIN/INCH 10447-10451 TF 165-150 R @ 4 MIN/INCH 10451-10455 TF 133-120 R @ 3 MIN/INCH 10455-10460 TF 120-105 R @ 2 MIN/INCH
		23:00 23:30	SURVEY & CHECK SHOT
		23:30 05:00	DRILL (SLIDE) F/10460-10493 TF 60 R 100 PSI DIF F 33 FT. ROP 6 FT/HR

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/08/93	10626	05:00 21:30	GLDD MM HRS SER # 50308 ROT HEAD RUBBERS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE WATER LOST TO HOLE ACTUAL BIT HRS FLARE SIZE LITHOLOGY WEATHER REPORT @ 05:00 PARTLY CLOUDY & 36 DEG DRILL (SLIDE) F/10493-10626 ROP 8.06 FPH 10493-10514 TF 30-20 SPM 70 DIFF 75 PSI 10514-10528 TF 20-10 SPM 70 DIFF 75 PSI 10528-10560 TF 10-5 SPM 70 DIFF 75 PSI 10560-10591 TF 10-0 SPM 70 DIFF 75 PSI 10591-10621 TF 03-0 SPM 70 DIFF 75 PSI 10621-10626 TF 00-00 SPM 70 DIFF 75 PSI
		21:30 02:00	W/R CLEAN OUT SIDETRACK HOLE F/10465-10497 40 RPM
		02:00 05:00	SURVEY'S TF ORIENTATION
			GLDD MM HRS SER # 50308 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE:0/38300 WATER LOST TO HOLE TO DATE ACTUAL BIT HRS:24/52 FLARE SIZE LITHOLOGY WEATHER REPORT @ 05:00 PARTLY CLOUDY & 40 DEG FLUID RECOVERY TO DATE
06/09/93	10681	05:00 08:30	DRILL (SLIDE)F/10626-10638 12 FT ROP 3.43 TF 3R
		08:30 14:30	PENETRATION RATE SLOW PUMP SLUG POH F/BIT CHANGE CHANGE OUT PROBE AND CHECK MM OK TEST SAME @ 700 PSI 65 SPM OK
		14:30 18:00	RIH FILLING DP EVERY 30 STDS TO 10440
		18:00 19:00	SURVEY & ORIENT TF TO GET BACK INTO NEW HOLE WORK INTO NEW HOLE OK
		19:00 19:30	FINISH RIH F/10460-10608
		19:30 20:00	WASH 30 FT TO BTM OK
		20:00 04:00	DRILL (SLIDE)F/10638-10681 43 FT ROP 5.06 TF 5L 70 SPM
		04:00 05:00	SURVEY'S & TF ORIENTATION
		GLDD MM HRS SER # 50308:13/75 ROT HEAD RUBBER HRS:13.5/414.5 WATER RECIEVED TO DATE:160/22,281 FUEL RECIEVED TO DATE:0/38300 WATER LOST TO HOLE TO DATE:315/12338 ACTUAL BIT HRS:SER # 551328 ACTUAL BIT HRS SER #:CW-1015	

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
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			FLARE SIZE LITHOLOGY WEATHER REPORT @ 05:00 33 DEG CLEAR FLUID RECOVERY TO DATE:0/340										
			NOTE:WILL DRILL TO 10685 MD WILL BE 90 DEG POH FOR STEERABLE ASSEMBLY										
06/10/93	10811	05:00 06:00	@ 10,651-10,674 LOST 200 BBLs FLUID GAINED FULL RETURNS OK DRILL (SLIDE) F/10681-10684(3 FT)ROP 3 FPH TF3L										
		06:00 09:30	POH F/BHA CHANGE TO STEERABLE										
		09:30 11:30	PU BHA & TOOLS TEST MM & MWD 700 PSI 65 SPM										
		11:30 15:00	RIH TO 10440										
		15:00 15:30	SURVEY & ORIENT INTO NEW HOLE OK FINISH RIH TO BTM @ 10684										
		15:30 23:00	DRILL (ROTATE) 99 FT 13.2 FPH										
		23:00 03:30	DRILL (SLIDE) 28 FT 6.2 FPH										
			<table border="0"> <tr> <td>ROTATE</td> <td>SLIDE</td> </tr> <tr> <td>10684-10733</td> <td>10733-10740 TF 25-30 R</td> </tr> <tr> <td>10740-10749</td> <td>10749-10758 TF 30-40 R</td> </tr> <tr> <td>10758-10780</td> <td>10780-10792 TF 00-10 R</td> </tr> <tr> <td>10792-10811</td> <td></td> </tr> </table>	ROTATE	SLIDE	10684-10733	10733-10740 TF 25-30 R	10740-10749	10749-10758 TF 30-40 R	10758-10780	10780-10792 TF 00-10 R	10792-10811	
ROTATE	SLIDE												
10684-10733	10733-10740 TF 25-30 R												
10740-10749	10749-10758 TF 30-40 R												
10758-10780	10780-10792 TF 00-10 R												
10792-10811													
		03:30 05:00	SURVEY'S & TF ORIENTATION										
			GLDD MM HRS SER #4003 ROT HEAD RUBBER HRS:15/430 WATER RECIEVED TO DATE:80/22361 FUEL RECIEVED TO DATE:0/38300 WATER LOST TO HOLE :160/12,498 ACTUAL BIT HRS:14/14 #(551322) FLARE SIZE ON TRIP GAS FLUID RECOVERY TO DATE:0/340 LITHOLOGY										
06/11/93	11050	05:00 24:00	WEATHER REPORT @ 05:00 36 DEG CLEAR DRILL (ROTATE) 219 FT 11.53 FPH										
		24:00 02:30	DRILL (SLIDE) 20 FT 8 FPH										
		02:30 05:00	SURVEY & TF ORIENTATION <table border="0"> <tr> <td>ROTATE</td> <td>SLIDE</td> </tr> <tr> <td>10811-10937 30-50 RPM</td> <td>10937-10950-TF 10R-10L</td> </tr> <tr> <td>10950-10997 40 RPM</td> <td>10997-11004-TF 10R-10L</td> </tr> <tr> <td>11004-11050 40 RPM</td> <td></td> </tr> </table>	ROTATE	SLIDE	10811-10937 30-50 RPM	10937-10950-TF 10R-10L	10950-10997 40 RPM	10997-11004-TF 10R-10L	11004-11050 40 RPM			
ROTATE	SLIDE												
10811-10937 30-50 RPM	10937-10950-TF 10R-10L												
10950-10997 40 RPM	10997-11004-TF 10R-10L												
11004-11050 40 RPM													
			GLDD MM HRS ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE WATER LOST TO HOLE TO DATE										

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2	WELL No. :19-2
AFE No. :014674	API No. :49-043-30068
FIELD :ELKHORN	RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 42 TO REPORT No. 52

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
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ACTUAL BIT HRS  
FLARE SIZE  
LITHOLOGY  
FLUID RECOVERY TO DATE  
WEATHER REPORT @ 05:00 45 DEG PARTLY CLOUDY

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/12/93	11062	05:00 06:00	DRILL (ROTATE)11050-11062 12 FT 12 FPH
		06:00 07:00	CHECK BIT PUMP SLUG
		07:00 10:30	POH(HAD 2 SHANKS AND CONES GONE & 1 NOSE CONE 1 SHANK AND CONE INTACT HAD A CRACK IN THE WELDED AREA OF THE SHANK AND BODY OTHER SHANK AREA'S INDICATED THAT SHANKS BROKE AT THE WELDED AREA
		10:30 11:30	L/D TOOLS CHANGE OUT GAMMA PROBE
		11:30 14:30	WAIT ON MAGNET FROM TRI STATE
		14:30 19:30	RIH W/TRI STATE 5 1/2 MAGNET TO 10212 HIT TIGHT SPOT P/U KELLY WASH/REAM & WORK F/10212-10242-FINISH RIH TO TOP OF FISH @ 11061
		19:30 20:30	WORK MAGNET ON FISH W/2300 PSI SEVERAL TIMES KICK OUT PUMP & WORK DOWN TO FISH
		20:30 01:45	POH W/PIPE SPINNERS RETRIEVED ONE CONE & SHANK BODY & ONE NOSE CONE & SOME INSERTS CLEAN OUT MAGNET
		01:45 05:00	RIH W/2ND MAGNET RUN
06/13/93	11074	05:00 06:30	FINISH RIH TO 11002
		06:30 07:30	WASH F/11002-11062 TO TOP OF FISH
		07:30 11:00	POH W/MAGNET RETRIEVED LAST CONE AND SHANK L/D MAGNET & BIT SUB
		11:00 14:00	PU MM BHA & MWD W/GAMMA PROBE RIH & TEST SAME TO 70 SPM 700 PSI OK
		14:00 19:30	RIH TO 10442-P/U KELLY ORIENT TF WORK INTO NEW HOLE FINISH RIH TO 11002
		19:30 22:30	P/U KELLY WASH/REAM F11002-11062
		22:30 04:30	DRILL (SLIDE) F/11062-11074 TF 20L 2 FPH
		04:30 05:00	SURVEY & TF ORIENTATION
			GLDD MM HRS SER # 50301 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE:800/24171 FUEL RECIEVED TO DATE:6792/45092 WATER LOST TO HOLE TO DATE

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			ACTUAL BIT HRS:SER # LITHOLOGY: 100 % LIMESTONE FLUID RECOVERY TO DATE WEATHER REPORT @ 05:00 29 DEG & CLEAR  NOTE INCREASING FROM THE INTIAL PRODUCTION WATER USED TO DRILL WELL
06/14/93	11136	05:00 13:15	DRILL (ROTATE) F/11074-11136 62 FT 7.52 FPH
		13:15 13:45	SURVEY & TF ORIENTATION
		13:45 19:00	POH F/BIT CHANGE (SLM) NO CORRECTION (HAD A TIGHT SPOT @ 11001 PULLED 70K OVER STRING TO GET FREE OK
		19:00 22:00	L/D MM & CHANGE SAME P/U NEW MM & MWD PROBE ADJUST MM TO 1.25 DEG RIH & TEST MWD W/70 SPM & 700 PSI OK P/U AND P/U BIT
		22:00 23:00	RIH W/BHA TO 4124
		23:00 24:00	SLIP & CUT DRILL LINE(112 FT)
		24:00 03:30	RIH TO 10442-P/U KELLY ORIENT INTO NEW HOLE FINISH RIH TO 10970
		03:30 05:00	REAM F/10970-11001 STUCK BIT @ 11001 BIT STALLED MIX HI VIS PILL W/SUN LUBRA BEADS AND PUMP
			GLDD MM SER # 50301 HRS GLDD MM HRS SER # 50312 ROT HEAD RUBBER HRS:8.75/475.75 NEW ROT HEAD RUBBER HRS:1.5/1.5 WATER RECIEVED TO DATE FUEL RECIEVED TO DATE:0/45092 WATER LOST TO HOLE TO DATE:350/14207 ACTUAL BIT HRS ACTUAL BIT HRS SER #35450 LITHOLOGY FLARE SIZE:NONE
06/15/93	11160	05:00 08:00	WEATHER REPORT @ 05:00 31 DEG CLEAR WORK STUCK BIT (STRING WILL ROTATE PUMP HI VIS PILL(100 VIS W/WALNUT HULLS)& STAGE SAME @ 300 STROKE INTERVALS AFTER PUMPING 38 BBLs AROUND BIT PULLED FREE FINISH PUMPING SWEEP TO CLEAN HOLE NO EXCESS CUTTINGS COMING BACK
		08:00 14:00	ATTEMPT TO WASH TO BTM P/U TO MAKE CONNECTION & COULDN'T GET THE KELLY BACK DOWN HAD TO LAY SINGLE DOWN MADE SEVERAL ATTEMPTS HAD TO L/D 7 ADDITIONAL JTS DP
		14:00 18:00	CIRCULATE/CONDITION CONTAMINATED MUD & RAISE VIS TO 40 TO CLEAN HOLE AFTER SEVERAL SWEEPS STARTED GETTING LARGE AMOUNTS OF CUTTINGS BACK HOLE APPEARS TO BE SLOUGHING
		18:00 23:30	WASH/REAM TO BTM F/10889-11136 W/35-45 RPM

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		23:30 02:30	DRILL (ROTATE) F/11136-11160 BTMS UP SAMPLE SH OWED TO HAVE NUMEROUS AMOUNTS OF CALCIDE CUTTING GS AND LIME STONE COATED W/PYRITE AND SOME SOLI D BENTONITE SLIVERS SOFT TO FIRM PUMP PILL W/6 LB/BBL LUBRA BEADS OF 35 BBL PIPE TORGUE FREE
		02:30 03:30	RELOG GAMMA F/11136-11154 MD
		03:30 04:30	ATTEMPT TO SLIDE @ 11154 WOULDNT GO
		04:30 05:00	SURVEY
			GLDD MM HRS SER # 50312 ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE WATERLOST TO HOLE TO DATE:345/14552 ACTUAL BIT HRS 35450 LITHOLOGY FLARE SIZE
06/16/93	11171	05:00 07:30	WEATHER REPORT @ 05:00 CLEAR & 50 DEG'S DRILL (ROTATE) F/11050-11071 21 FT @ 8.4 FPH
		07:30 15:30	PENETRATION SLOWED DOWN FROM 7 MIN/FT TO 20 MIN /FT MOTOR STALLED OUT P/U AND MOTOR STALLED FOR 5 FT & THEN PRESSURE FELL OFF TO 2050 FROM 2350 POH TO CHECK BIT & MOTOR FOUND BIT,BEARING PACK ,& ROTOR LEFT IN HOLE TOTAL FISH LENGTH 13.48 FT HAD 8 JOINTS 3 1/2 DP BENT SEVERELY 2 JTS HAD STRESS CRACKS IN THE BENT AREA OF THE TUBE L/D 8 JTS (252.60 FT) P/U 8 NEW JTS OF 3 1/2 DP STAND BACK IN DERRICK
		15:30 21:00	WAIT ON TRI STATE FISHING TOOLS (WHILE WAITING ON TOOLS L/D MWD & 2 NMDC & INSPECT SAME W/ PATHFINDER INSPECTION OK NO BAD PINS OR BOXES
		21:00 03:00	P/U TRI STATE 4 11/16 OVER SHOT W/2.75-2.95 GRAPPLE AND RIH W/SAME TO 10228-HIT TIGHT SPOT DUE TO STIFF ASSEMBLY
		03:00 05:00	WORK & WASH DOWN TO TOP OF FISH @ 11171
			GLDD MM HRS SER # 50312 ROT HEAD RUBBER HRS:7/32.5 WATER RECIEVED TO DATE:160/25,031 FUEL RECIEVED TO DATE WATER LOST TO HOLE TO DATE ACTUAL BIT HRS 35450 LIYHOLOGY FLARE SIZE
06/17/93	10413	05:00 06:30	NOTE IS DISCOUNTED. ATTEMPT TO WASH/REAM TO BTM W/OVERSHOT @ 10556 TORQUE EXTREMELY EXCESSIVE PULL UP L/D DP TO 10413-P/U KELLY

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		06:30 07:30	CIRC BTMS UP TO POH TO P/U SLIM HOLE OVERSHOT P/U TO SET KELLY BACK PULLED 75K OVER STRING WT OF 135 K PIPE STUCK JAR ON PIPE F/210-240 K DP CAME FREE NO INDICATION OF LOST TOOLS
		07:30 08:30	CIRC BTMS UP NO EXCESSIVE CUTTINGS
		08:30 11:30	POH F/SLIM HOLE OVERSHOT WHEN OUT OF HOLE FOUND 3 1/2 DP PARTED IN TUBE AREA CRACKED AREA HAD SEVERAL STRESS CRACKS ABOVE THE CRACKED AREA
		11:30 14:30	WAIT ON TRI STATE FISHING TOOLS(WHILE WAIT P/U 45 NTS 4" TO REPLACE 3 1/2 L/D)
		14:30 15:30	P/U & M/U 5 3/4 OVERSHOT & FISHING ASSEMBLY
		15:30 20:00	RIH TO TOP OF FISH @ 10413 & ATTEMPT TO LATCH ON TO FISH GAINED 6000 LBS ON WEIGHT INDICATOR
		20:00 23:00	POH W/OVERSHOT DIDN'T GET ANYTHING ON RUN OUT SIDE OF OVERSHOT WAS SCARED IN CUT LIP AREA
		23:00 04:30	RIH W/SAME FISHING ASSEMBLY TO TOP OF FISH ATT EMPT TO LATCH ONTO SAME NO SUCCESS
		04:30 05:00	POH TO L/D FISHING TOOLS
			ROT HEAD RUBBER HRS WATER RECIEVED TO DATE FUEL RECIEVED TO DATE WATER LOST TO HOLE TO DATE WEATHER REPORT @ 05:00
06/18/93	10009	05:00 07:30	FINISH POH W/FISHING TOOLS NO RECOVERY
		07:30 08:30	L/D FISHING TOOLS & LOAD OUT SAME
		08:30 12:00	RIH W/30 & DBL 3 1/2 DP R/U AMERICAN PIPE HANDL ERS L/D MACHINE L/D 92 JNTS DP R/D AMERICAN PI PE HANDLERS
		12:00 15:30	R/U OWP RIH W/HOWCO 7" CEMENT RETAINER RIH & SET @ 9600-POH W/SETTING TOOL R/D OWP
		15:30 16:00	M/U STINGER BHA
		16:00 21:00	RIH W/STINGER & W/4" DP 84 STDS P/U 61 JNTS 4" TO 9637 (TOP OF EZSV RETAINER)
		21:00 22:15	STING INTO CEMENT RETAINER R/U HOWCO CEMENTERS PUMP 500 SX CEMENT CLASS H AG-250 W/.5 CFR-3 & .2% HR-5 YIELD .97 17.2 PPG-3.56 GPS WATER TOTAL VOLUME 86.6 BBLs
		22:15 02:15	WAIT ON CEMENT(P/U OUT OF STINGER AND PUMP 2BBL EVERY HOUR TO INSURE STINGER AND DP CLEAR)
		02:15 02:45	PRESSURE UP TO TEST SQUEEZE PUMP 8.5 BBLs MUD @ 2 BPM NO PRESSURE INCREASE

## OPERATION SUMMARY REPORT

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/19/93	10009	02:45 05:00	WAIT ON CEMENT F/ SECOND SQUEEZE JOB  ROT HEAD RUBBER HRS WATER RECIEVED TO DATE:200/25331 FUEL RECIEVED TO DATE WEATHER REPORT @ 05 RAIN LAST 24 HRS FLUID RECOVERY TO DATE
		05:00 06:00	WAIT ON CEMENT
		06:00 12:30	ATTEMPT TO TEST SQUEEZE W/HOWCO PUMPED 2 BBLS OF FLUID PRESSURED UP TO 1500 PSI ATTEMPT TO PULL STINGER FREE HAD 6 FT OF PIPE MOVEMENT PIPE STUCK R/D HOWCO & P/U KELLY PRESSURED UP @ 2500 AND WORK PIPE HAD 5 FT OF MOVEMENT DOWN & UP PULLED UP TO 250K(120 OVER STRING WT)NO SUCCESS WORK PIPE & WAIT ON OWP FREE POINT TRUCK & TOOL
		12:30 16:30	R/U OWP & RIH W/FREE POINT TO 9175-TAG CMT P/U TO 9145 PIPE FREE @ 9160 FREE POINT SHOWS DP IS STUCK POH W/FREE POINT LOAD TOOLS W/BACK OFF SHOT RIH TO 9084 & BACK OFF DP POH W/WIRELINE R/D OWP
		16:30 18:00	R/U & REV CIRC DP BTMS UP HAD 28 BBLS OF BLACK OILY FILMED FINE SILTY FLUID THAT HAD GAS ODER DIDN'T APPEAR TO HAVE MUCH CMT TO IT
		18:00 22:00	POH (SLM 9084)L/D SHOT JOINT
		22:00 01:30	M/U BHA RIH TO 9084
		01:30 02:00	WORK DOWN & SCREW INTO PIPE
		02:00 04:00	JAR ON DP NO MOVEMENT
		04:00 05:00	R/U OWP RIH W/BACK OFF TOOLS BACK @ 9110
06/20/93	10009	05:00 06:30	NOTE FREE MOVEMENT AFTER 4 HRS OF WOC AND CIRC AND ON LAST MOVENT OF DP @ 06:00 FINISH RIH W/OWP & BACK OFF DP @ 9115-POH & R/D OWP
		06:30 09:30	POH L/D JARRING ASSEMBLY
		09:30 12:30	RIH W/DP TO SCREW INTO DP TO R/U COIL TBG UNIT TP DRILL OUT CEMENT IN DP
		12:30 13:00	SCREW INTO DP P/U TO 180K TO INSURE SCREWED IN TO DP OK
		13:00 15:00	SET OUT FRONT END OF RIG MOVE DP & RACKS TO R/U HALLIBURTON COIL TBG UNIT
		15:00 17:30	R/U HOWCO COIL TBG UNIT TEST BOP AND 1.68 GRIF CO MM OK SCREW ON 2.30 BIT & RIH W/COIL TBG TO

**OPERATION SUMMARY REPORT**

WELLNAME :UPRR # 1H ELKHORN 19-2  
 AFE No. :014674  
 FIELD :ELKHORN

WELL No. :19-2  
 API No. :49-043-30068  
 RIG :SST 56

SUMMARY OF OPERATIONS FROM REPORT No. 53 TO REPORT No. 63

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			9115
		17:30 23:30	DRILL OUT DP @ .8 BPM MOTOR RPM 700-1200-PUMP PSI 3000 TAG FILL @ 9350 DRILL TO 9450-MM PRESS INCREASING FROM 3100 TO 3750-POH TO CHECK BIT & MM (HAD MINERAL FIBER,WALNUT HULLS,SAND & 20% CEMENT IN SAMPLES SEEING SMALL INCREASE IN CEMENT TO ABOUT 35 % BEFORE TRIP OUT)
		23:30 02:00	POH W/COIL TBG CHANGE MM & BIT & TEST SAME
		02:00 04:30	RIH W/COIL TBG TO 9420-WASH TO 9450
		04:30 05:00	DRILL OUT DRILL PIPE FROM 9450-9465 @ 900 RPM 3100 PSI @ 1.0 FT/MIN PUMP RATE .8 BPM
06/21/93	10009	05:00 10:30	DRILL OUT DP F/9465-9475 PRESSURE INCREASING F/ 3400-4700 ROP DECREASED POH L/D MM & CHANGE BIT REDRESS COIL TBG P/U NEW SLIM DRILL (1.75)MM TEST SAME RIH TO 9475
		10:30 01:30	DRILLING OUT CEMENT F/9475-9555 ROP 5.3 FPH PRESS 3450 CEMENT SAMPLES @ 80 % @ 9515
		01:30 04:30	POH F/MM CHANGE CHANGE MM RIH W/COIL TBG TO BTM
		04:30 05:00	DRILL CEMENT F/9555-9557
			FLUID RECOVERY TO DATE:0/340 ROT HEAD RUBBER HRS:24/11.5 FUEL RECIEVED TO DATE:0/38,300 WATER RECIEVED TO DATE
06/22/93	10009	05:00 19:00	WEATHER REPORT @ 05:00 48 DEG CLOUDY DRILL OUT DP F/9557-9631 HAD GOOD INDICATION TAGGED X OVER SUB ABOVE STINGER CIRC FOR 20 MIN SHORT TRIP COIL TBG F/9631-9100 WITH OUT PUMP NO FILL CIRC 20 MIN CIRC COIL TBG OUT OF HOLE LOAD UP & BLOW TBG CLEAN WITH NITROGEN R/D HAL BURTON (ROP 6.7 FPH 3750 PSI)
		19:00 21:00	SET FRONT END OF RIG BACK UP
		21:00 01:30	R/U OWP RIH W/FREEPOINT FOUND DP STUCK @9223-50 % FREE F/9183-9200 POH LOAD TOOLS FOR BACK OFF SHOT RIH & ATTEMPT BACK OFF @ 9194-NO SUCCE SS POH REDRESS BACK OFF SHOT RIH & BACK OFF @ 9164-OK(HAD TORQUE READINGS TO 9200) R/D OWP
		01:30 03:00	CIRC BTMS UP SAMPLE ON BTMS UP CONTAINED SAND DARK SILTY SUBSTANCE LIKE MICA,AND VERY LITTLE CEMENT,SOME MINERAL FIBER ALSO
		03:00 05:00	POH TO P/U WASH PIPE
			ROT HEAD RUBBER HRS:19/139 FUEL RECIEVED TO DATE WATER RECIEVED TO DATE WATER LOST TO HOLE TO DATE FLUID RECOVERY TO DATE WEATHER @ 05:00 CLOUDY 47 DEG & RAIN

WELL SUMMARY SCREEN

WELL NAME 1-H UPRR 19-2 (REENTRY) API NUMBER 43-043-30068  
 OPERATOR UNION PACIFIC RESOURCES FIELD ELKHORN RIDGE  
 LEASE TYPE FEE SPACING R649-3-2 COUNTY SUMMIT SWNW 19-02N-07E  
 (APD) 1980-FNL-0660-FWL

APD APPROVED 03/30/93 APD EXTENDED TO / /

SPUDED / /

COMPLETION DATE / / COMP TYPE COMP STATUS PA  
 SURFACE LOCATION - - TD LOCATION - -  
 TD 0 PBD 0 PERFS 0- 0 CONTINUOUS PERFS? (CONT/NON CON)  
 DIRECTIONAL SURVEY? CORED?  
 1ST PRODUCTION / / 24 HR PROD. TEST - OIL 0 GAS 0 WATER 0

CONFIDENTIAL? ('Y' OR BLANK)  
 DONE? N

COMMENTS (^HOME) MEMO (Y OR BLANK) Y

Ins NumCaps ExclLock

[.....▼1.....▼2.....▼3.....▼4.....▼5.....▼6.....].....7.....

3-19-93 Sent for presite review.

DAR OF 6/28/93 SHOWS INTENT TO PA WELL. (6/28/93)

DAR OF 7/14/93 SHOWS SUBSEQUENT REPORT OF PLUGGING. (7/14/93)

APD FOR RIG SKID (UPRR 1H 19-2X; API 43-043-30300) SHOWS THIS WELL DRILLED AND ABANDONED ON 6/27/93. (7/21/93)

*Final ✓*

SL: 1980' FNL, 660' FWL

BHL: 1941' FNL, 2535' FWL



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. Lease Designation and Serial Number: Fee
		6. If Indian, Allocated or Tribe Name:
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.		7. Unit Agreement Name: N/A
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		8. Well Name and Number: UPRR 19-2
2. Name of Operator: UNION PACIFIC RESOURCES COMPANY		9. API Well Number: 43-043-30068
3. Address and Telephone Number: P.O. Box 7, Fort Worth, Texas 76101-007 817/877-7952		10. Field and Pool, or Wildcat: Elkhorn
4. Location of Well Footages: 660' FWL and 1980' FNL QQ, Sec., T., R., M.: SW NW Sec. 19-T2N-R7E		County: Summit State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Temporarily shut-in</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

Union Pacific Resources requests permission for the above mentioned well to remain temporarily shut-in pending engineering evaluation.

**RECEIVED**

JUN 24 1993

DIVISION OF  
OIL, GAS & MINING

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

DATE: 6-24-93  
BY: [Signature]

13. Name & Signature: Cami Minzenmayer Cami Minzenmayer Title: Regulatory Analyst Date: 6-22-93

(This space for State use only)

06/24/93 12:16

 PACIFIC Resources

FACSIMILE TRANSMISSION  
FAX NUMBER (817) 877-7687

TO: Frank Matthews  
(Name of Person)

DATE: 6-24-93

Utah Dept of Natural Resources  
(Name of Company)

TIME: 12:10 (c) A.M.  
P.M.

Salt Lake City  
(Location)

(801) 359-3940  
(Fax Number)

FROM: Bill Charles  
(Name of Person)

(817) 877-7678  
(Telephone Number)

NUMBER OF PAGES: 2 PLUS COVER SHEET

ACTION REQUESTED: Call back - PIA (Require base of fresh wtrs)

Please notify at the above number if this transmission has not been received.



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

June 24, 1993

To: Bill Charles, Union Pacific Resources

From: Frank Matthews, Petroleum Engineer *FAM*

Re: UPRR 1-H Elkhorn 19-2  
Sec. 19, Twp 2 N, Rng 1 E  
Summit County, Utah  
API No. 43-043-30068

1. Notify Department of Oil, Gas & Mining 24 hrs prior to beginning of Plugging operations.
2. Set CIBP on/or at the top of the fish. Dump 2 sks cement on plug.
3. Set balanced cement plug @  $\pm 3,600'$  to  $3,500'$  (base of the Frontier).
4. Set balanced cement plug 50' in 50' out of 9 5/8 surface casing shoe @  $\pm 1,950'$  to  $\pm 1,850'$ .
5. Cut off casing.
6. Set 10 sk plug @ surface.
7. Fill all annuli with cement to surface.
8. Install dry hole marker as per DOGM R649-3-24-7.



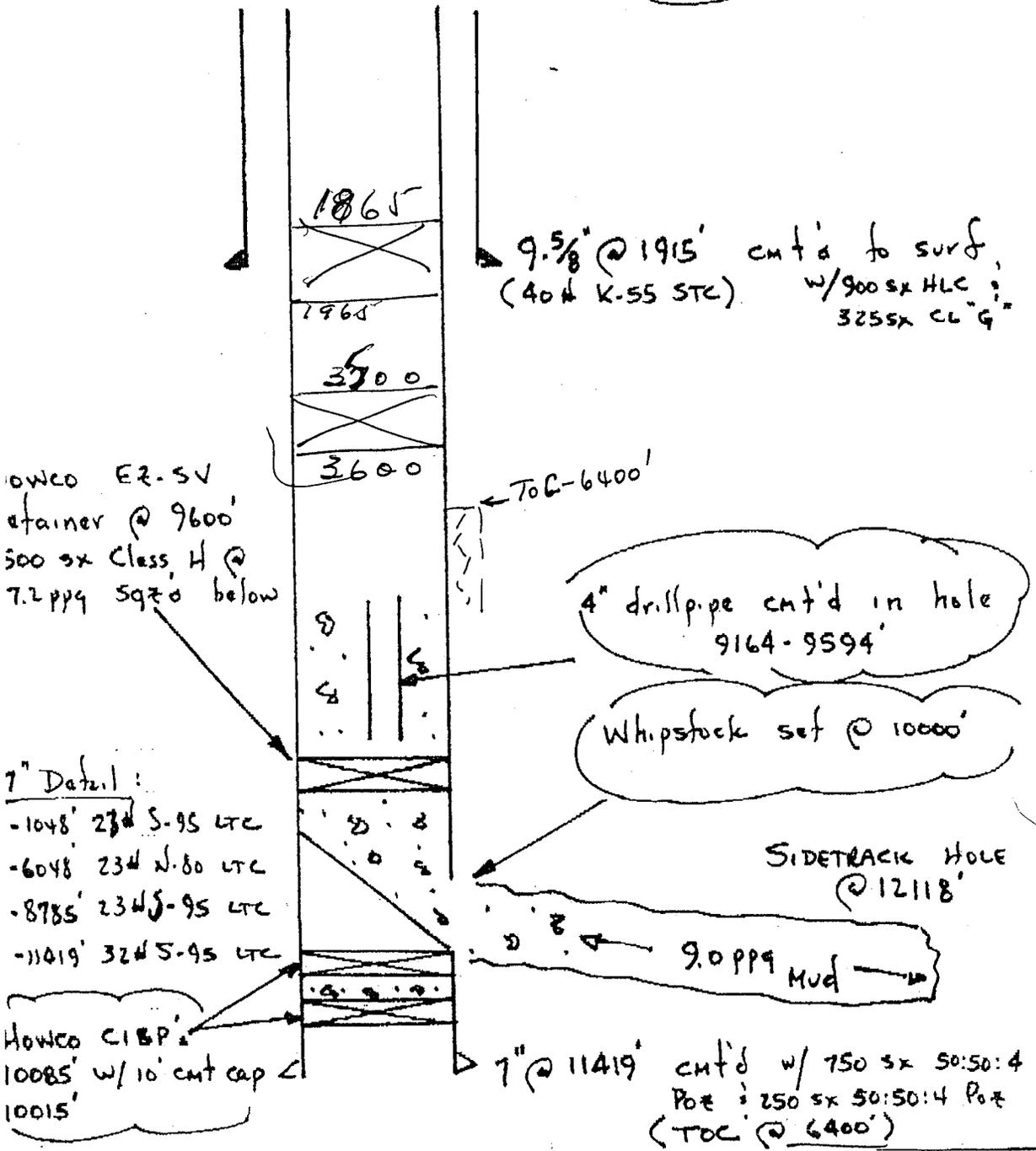
UPRR I-H ELKHORN 19-2

— WELL SKETCH —

L: 1980' FNL ; 660' FNL Section 19-T2N-R7E  
Summit County, Utah

PI No: 49-043-30068

Sidetrack Directional Data  
BHL: 39' North + 1875' East of SL  
Horizontal Hole Drilled @  
10400' TVD



9.5" @ 1915' cmt'd to surf,  
(40# K-55 STC) w/ 900 sx HLC ;  
3255x CL "G"

TOC-6400'

4" drill pipe cmt'd in hole  
9164-9594'

Whipstock set @ 10000'

SIDETRACK HOLE  
@ 12118'

9.0 PPG Mud

7" @ 11419' cmt'd w/ 750 sx 50:50:4  
Pore ; 250 sx 50:50:4 Pore  
(TOC @ 6400')

oweco EZ-SV  
stainer @ 9600'  
500 sx Class H @  
7.2 ppg 5qt below

7" Detail:  
-1048' 23# S-95 LTC  
-6048' 23# N-80 LTC  
-8785' 23# S-95 LTC  
-11419' 32# S-95 LTC

Howco CIBP  
10085' w/ 10' cmt cap <  
10015'



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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Salt Lake City, Utah 84180-1203  
801-538 5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

June 24, 1993

To: Bill Charles, Union Pacific Resources

From: Frank Matthews, Petroleum Engineer *FM*

Re: UPRR 1-H Elkhorn 19-2  
Sec. 19, Twp 2 N, Rng 1 E  
Summit County, Utah  
API No. 43-043-30068

1. Notify Department of Oil, Gas & Mining 24 hrs prior to beginning of Plugging operations.
2. Set CIBP on/or at the top of the fish. Dump 2 sks cement on plug.
3. Set balanced cement plug @  $\pm$  3,600' to 3,500' (base of the Frontier).
4. Set balanced cement plug 50' in 50' out of 9 5/8 surface casing shoe @  $\pm$  1,950' to  $\pm$  1,850'.
5. Cut off casing.
6. Set 10 sk plug @ surface.
7. Fill all annuli with cement to surface.
8. Install dry hole marker as per DOGM R649-3-24-7.

Verbal approval  
obtained from Frank Matthews  
8:30 AM (C) 6-25-93

Post-It™ brand fax transmittal memo 7671		# of pages
To	Bill Charles	1
From	Frank Matthews	
Co.	Union Pacific	
	Oil, Gas & Mining	
Dept.	Resources	
Phone #	538-5340	
Fax #	801-877-7687	
		Fax # 359-3940



— WELL SKETCH —

SL: 1980' FNL : 660' FWL Section 19-T2N-R7E  
 SUMMIT County, Utah

API No: 49-043-30068

Sidetrack Directional Data  
 BHL: 39' North - 1875' East of SL  
 Horizontal Hole Drilled @  
 10400' TVD

Pre Existing Perfs:  
 1SPF: 10138', 10182', 10191', 10208', 10260', 10275',  
 10291', 10327', 10338', 10383', 10394'  
 2SPF: 10440'-10470' + 10485'-10518'  
 CIBP @ 10540'  
 1SPF: 10570'-10660' (Sqr'd w/ 125 SX CMT)

9.5/8" @ 1915' cmt'd to surf,  
 (40# K-55 STC) w/ 900 SX HLC :  
 325 SX CL "G"

100 SK CMT plug  
 6400' - 6900'

CIBP @ 9000' w/ 100 SX CMT CAP  
 (TOC @ 8500')

4" drill pipe cmt'd in hole  
 9164 - 9594'

Whipstock set @ 10000'

SIDETRACK HOLE  
 @ 12118'

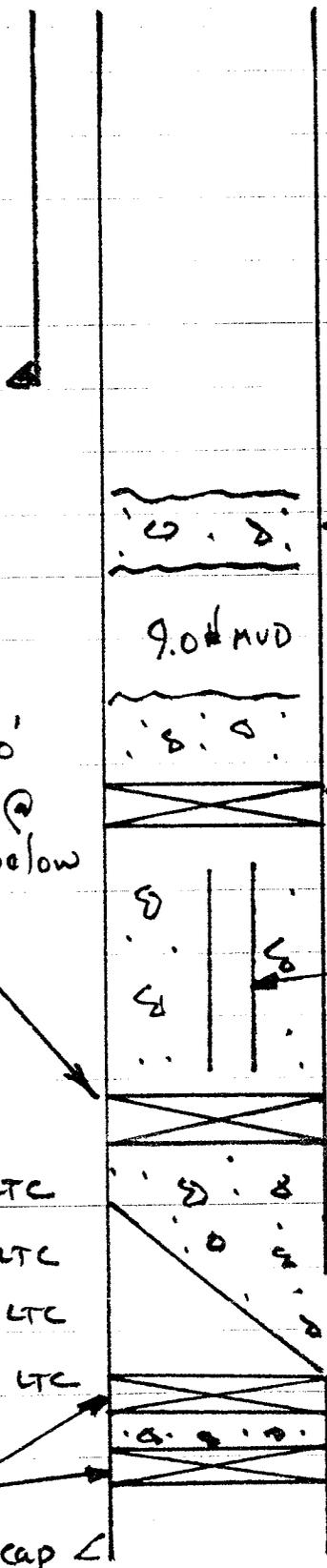
9.0 PPG Mud

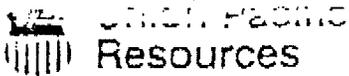
Howco ER-SV  
 retainer @ 9600'  
 500 SX Class H @  
 17.2 ppg Sqr'd below

7" Detail:  
 -1048' 23# S-95 LTC  
 -6048' 23# N-80 LTC  
 -8785' 23# J-95 LTC  
 -11419' 32# S-95 LTC

Howco CIBP's  
 10085' w/ 10' cmt cap  
 10015'

7" @ 11419' cmt'd w/ 750 SX 50:50:4  
 Poz : 250 SX 50:50:4 Poz  
 (TOC @ 6400')





FACSIMILE TRANSMISSION  
FAX NUMBER (817) 877-7687

TO: Frank Matthews  
(Name of Person)

DATE: 6.25-93

Utah Dept. of Natural Resources  
(Name of Company)

TIME: 8:00 (C) A.M.  
P.M.

Salt Lake City  
(Location)

(801) 359-3940  
(Fax Number)

FROM: Bill Charles  
(Name of Person)

(817) 877-7678  
(Telephone Number)

NUMBER OF PAGES: 3 PLUS COVER SHEET

ACTION REQUESTED: Approval Request to P.A. Elkhorn 19.2  
- Thank you for your assistance -

Please notify at the above number if this transmission has not been received.



**PERMANENT ABANDONMENT PROCEDURES**

*43-043-30068*  
UPRR 1-H ELKHORN 19-2

1980' FNL & 660' FWL SECTION 19-T2N-R7E  
API Number: 49-043-30068  
GL Elevation: 6721'  
KB Elevation: 6740'

CASING DETAILS: Surface - 9-5/8" 40# K-55 STC @ 1915'  
900 sx HLC & 325 sx Class C  
(cemented to surface)

Production-           0' - 1048'   7" 23# S-95 LTC  
                          1048' - 6048'   7" 23# N-80 LTC  
                          6048' - 8785'   7" 23# S-95 LTC  
                          8785' - 11419'   7" 32# S-95 LTC  
                          750 sx 50:50:4 Poz & 250 sx 50:50:2 Poz  
                          (TOC @ 6400')

FORMATION MARKERS:

Stump	-	6838'
Base of Salt	-	9568'
Twin Creek	-	9650'
Leeds Creek	-	10120'
Watton Canyon	-	10486'
Sliderock	-	11000'
Gypsum Springs	-	11072'
Nugget	-	11117'

- 1). To isolate the Twin Creek: RIH with Halliburton CIBP on drillpipe. Set the CIBP at 9000'. Test the plug to 1000 psi. Spot 100 sx Class H cement at 17.0 ppg above the CIBP. Estimated TOC at 8500'. POOH to 8000' and reverse out. Displace the hole with 9.0 ppg mud.
- 2). Pull up to 3700'. Spot 100 sx Class H cement. Pull up to 3000' and reverse out. TOC at 3200'. Retest the plug and casing to 1000 psi. POOH.
- 3). Perforate the 7" casing at 2000' (85' below the base of surface casing). RIH with Halliburton EZ-SV cement retainer and set same at 1700'. Mix and pump 150 sx Halliburton Lite + 3% salt at 12.5 ppg below retainer. POOH. Wait on cement 6 hours. Pressure test 7"x 9-5/8" annulus to 500 psi. Calculated fill - 300' inside 7" and 500' inside 7"x 9-5/8" annulus.
- 4). Nipple down BOP's and wellhead. Cut off all casing strings 10' below ground level. Cap casing strings to ground level with Redi-Mix concrete.
- 5). Install an abandonment marker in the poured concrete. The marker will be a (10') 4" post embedded 4' in the concrete with 6' sticking up above ground level. The top of the post will be permanently sealed. The marker will show the well name, location, and lease name.

Union Pacific Resources Company  
P.O. Box 7  
Fort Worth, Texas 76101-0007  
817 / 877 6000  
1WX 910 893 5024  
Telex 758-447

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 6-28-93  
BY: [Signature]

PERMANENT ABANDONMENT PROCEDURES

UPRR 1-H ELKHORN 19-2

1980' FNL & 660' FWL SECTION 19-T2N-R7E

API Number: 49-043-30068

GL Elevation: 6721'

KB Elevation: 6740'

CASING DETAILS: Surface - 9-5/8" 40# K-55 STC @ 1915'  
900 sx HLC & 325 sx Class G  
(cemented to surface)

Production-           0' - 1048' 7" 23# S-95 LTC  
                          1048' - 6048' 7" 23# N-80 LTC  
                          6048' - 8785' 7" 23# S-95 LTC  
                          8785' - 11419' 7" 32# S-95 LTC  
                          750 sx 50:50:4 Poz & 250 sx 50:50:2 Poz  
                          (TOC @ 6400')

FORMATION MARKERS:       Stump               - 6838'  
                              Base of Salt       - 9568'  
                              Twin Creek        - 9650'  
                              Leeds Creek       - 10120'  
                              Watton Canyon   - 10486'  
                              Sliderock         - 11000'  
                              Gypsum Springs   - 11072'  
                              Nugget            - 11117'

- 1). To isolate the Twin Creek: RIH with Halliburton CIBP on drillpipe. Set the CIBP at 9000'. Test the plug to 1000 psi. Spot 100 sx Class H cement at 17.0 ppg above the CIBP. Estimated TOC at 8500'. POOH to 8000' and reverse out. Displace the hole with 9.0 ppg mud.
- 2). Pull up to 3700'. Spot 100 sx Class H cement. Pull up to 3000' and reverse out. TOC at 3200'. Retest the plug and casing to 1000 psi. POOH.
- 3). Perforate the 7" casing at 2000' (85' below the base of surface casing). RIH with Halliburton EZ-SV cement retainer and set same at 1700'. Mix and pump 150 sx Halliburton Lite + 3% salt at 12.5 ppg below retainer. POOH. Wait on cement 6 hours. Pressure test 7"x 9-5/8" annulus to 500 psi. Calculated fill = 300' inside 7" and 500' inside 7"x 9-5/8" annulus.
- 4). Nipple down BOP's and wellhead. Cut off all casing strings 10' below ground level. Cap casing strings to ground level with Redi-Mix concrete.
- 5). Install an abandonment marker in the poured concrete. The marker will be a (10') 4" post embedded 4' in the concrete with 6' sticking up above ground level. The top of the post will be permanently sealed. The marker will show the well name, location, and lease name.

**UPRR 1-H ELKHORN 19-2**

The Elkhorn 19-2 in Summit County, Utah was reentered 04-20-93 for purposes of drilling a horizontal hole in the Watton Canyon member of the Twin Creek formation. The well was successfully sidetracked and a 2000' lateral was drilled which partially penetrated the target zone.

Hole problems required that the sidetracked hole be plugged back and that the well be redrilled as an additional sidetrack. During the plugging operation 400' of drillpipe was cemented in the casing; fishing activities have been unsuccessful. It appears that a portion of the 7" production casing that was set through a massive salt section above the target is pinched/collapsed and that future work will be expensive with poor chances of success. It is recommended that operations be suspended and that the well be abandoned.

**UNION PACIFIC RESOURCES COMPANY**

**ELKHORN #1H UPRR 19-2**

**1980' FNL & 660 FWL**

**SW NW SEC 19, T2N, R7E**

**SUMMIT COUNTY, UTAH**

*Note: This is a multiple sidetrack deviated hole.  
The original lateral ended 46' north & 1914' east,  
and sidetrack "B" ended 135' south & 979' east  
of the surface location.*

**Prepared by:**

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# **WELL EVALUATION**

## **GENERAL:**

The Union Pacific Resources Company Elkhorn #1-H UPRR 19-2 was designed as a horizontal test of the Twin Creek Formation in the Elkhorn Ridge Field, Utah. Elkhorn Ridge is a four well field (plus one dry hole), productive from the Twin Creek & Nugget Formations since its discovery in 1977. The single well still producing, as of this date, is the prolific Exxon Newton Sheep #18-1 [SW SE, Section 18, T2N, R7E] having made over 472,500 BO & 220.8 MCF gas from the Twin Creek in its first five years of production. The Elkhorn #1H UPRR 19-2 was planned as a re-entry of an American Quasar Petroleum conventional well located in the SW NW, Section 19, T2N, R7E, Summit County, Utah. The original well [designated the UPRR 19-2] was drilled to a total depth of 11,419' [TVD 11,408'] in the Nugget Formation in 1978. The 19-2 produced a total of 4,303 BO from the Twin Creek and Nugget before temporary abandonment in mid-1979. One location to the east of the 19-2, the American Quasar Petroleum UPRR 19-1 [SW NE, Section 19, T2N, R7E] produced 188,811 BO and 79 MCF gas from the Twin Creek in its five year productive life. The nearby Lodgepole and Pineview Fields are also oil productive from the Twin Creek Formation.

Union Pacific Resources Company re-entered the American Quasar 19-2, milled a window in the 7" production casing and began directional drilling toward a horizontal target in the lower Watton Canyon [also know as Walton Canyon] member of the Twin Creek Formation. The designated target zone was between 10,636' and 10,663' on the 19-2 logs. Owing to the strong structural dips in the area, the planned approach to the target zone involved reaching horizontal [90°] or slightly greater than 90° and maintaining that angle while the target zone rose structurally to meet the well bore. Once the target zone was entered the plan was to stay within the target, along an azimuth of N80°E, with minor steering adjustments until 3,000' of lateral or a hard-line restriction was encountered [either the legal setback from the section line or a 2,000' radial restriction from the Exxon Newton Ranch 18-1 bottom hole location].

## **OPERATIONS:**

The Elkhorn #1H UPRR 19-2 was resurveyed and the surface location confirmed at 1,980' FNL, 660' FWL, Section 19, Township 2 North, Range 7 East, Summit County, Utah. A multi-shot gyroscopic survey was made of the cased original hole to determine the precise location of the kick off point for directional drilling. The tie in point at 10,000' MD [measured depth] in the 7" casing was calculated at TVD [true vertical depth] 9,993.42', at an angle of 1.44°, an azimuth of 126.66°, at 286.52' south and 90.12' east of the surface location.

During initial operations on the re-entry project 340 barrels of oil were recovered out of the production string and casing. The existing perforations were isolated with bridge plugs and cement. The casing was cleaned out and tested for the upcoming window milling operations. Initial attempts to begin the milling operations with 6" tools encountered difficulties due to a restriction in the casing in the lower Preuss salt [~9,517' MD]. The casing was swedged out to accommodate 5.875" tools. A window was milled through the 7" casing from 10,000' to

10,014' MD. Directional drilling operations began at 10,014' and proceeded until 10,106' where cuttings samples, directional surveys and engineering parameters seemed to indicate that the well path was following the old hole rather than deviating away from it. The initial sidetrack attempt was plugged back and the sidetrack was restarted at 10,042' MD. The hole was deviated to approximately 40° when hole sloughing problems began to occur after trips. This problem may have been related to an argillaceous limestone zone just above the top of the Leeds Creek member [original hole log depths 10,076' to 10,096']. The difficulty seemed to be resolved by "mudding up" the hole and angle build operations resumed.

The hole reached 90° at a measured depth of 10,727' [TVD 10,440.82']. The well path remained between 87.8° and 92° from 10,727' MD to 11,526' MD. The hole angle was steered upward in anticipation of the formation dip at approximately 11,500' MD. The hole angle ranged between 92° and 95° from 11,557' to 12,118' MD. Drilling proceeded smoothly with good rates of penetration from 10,941' to 11,875' [bit run #12], primarily due to the use of rotation of the drill string. The primary target zone was first encountered at 11,609' MD. After skimming along in the very top of the target zone the well bore passed out the top of the target zone at 11,795' MD. The formation dip calculated between these two points indicated an average dip of 3.4°. An attempt was made to steer the well bore back down to 90° in order to re-enter the target zone. Due to problems with hole sloughing and drag this steering attempt was not very productive. The decision was made to move back uphole and attempt an open hole sidetrack in order to penetrate the target zone sooner in the lateral and remain within the target.

Multiple attempts to open hole sidetrack the well bore were made between 11,544' and 11,739' MD without success. An open hole sidetrack attempt beginning at 10,442' MD finally proved to be successful. The new hole beginning at 10,442' was designated "Sidetrack B" to distinguish it from the original lateral. Angle was built in Sidetrack "B" to 90° by measured depth 10,805' [TVD 10,459.01' at vertical section 575.15']. The hole angle was maintained at 90-91° until the end of Sidetrack "B" at 11,171' MD. The drill bit and a portion of the mud motor were left in the hole at 11,171'. Attempts to fish them out were frustrated by twisting off of weakened 3.5" drill pipe, leaving a second fish in the hole.

An attempt was made to plug back and restart the drilling of the lateral portion of the Elkhorn #1H UPRR 19-2. Unfortunately, the cementing tools malfunctioned leaving the cement partially inside and outside of the drill pipe, plugging and cementing it in place. Attempts to drill out the cement in the pipe and free it were unsuccessful.

The decision was made to abandon the re-entry of the Elkhorn #1H UPRR 19-2. The drilling rig will be moved a short distance on the existing drilling pad and the well redrilled from surface.

#### **ZONES OF INTEREST:**

The entire drilling operation of the Elkhorn #1H UPRR 19-2 took place within the Twin Creek Formation [Jurassic in age]. The top of the Twin Creek - Giraffe Creek member was encountered in the original American Quasar well at 9,654' MD, TVD 9,645' (-2908'). Operations on the Elkhorn #1H UPRR 19-2 re-entry commenced in the Giraffe Creek member

of the Twin Creek at 10,000' MD, TVD 9,993.4'. In the original lateral the Leeds Creek member was topped at 10,136' MD, TVD 10,128' (-3383') and the Watton Canyon member was reached at 10,591' MD, TVD 10,429' (-3684').

The first hydrocarbon shows in the re-entry were encountered at 10,906' MD, TVD 10,438' (-3693'). Gas readings rose from 6 units before the show [1% methane in air = 100 units] to a peak of 860 units, then decreased to 50 units after the show. Large and significant increases in the heavy gas components [C<sub>3</sub> through nC<sub>4</sub>'s] were noted in association with the show, indicating the presence of oil. Cuttings samples recovered from this interval included limestone: light gray, light to medium gray brown, fine to very fine crystalline, silty in part, granular, moderately hard to soft, dull yellow green fluorescence in part, slow streaming to trace cut, poor to trace visible intercrystalline porosity. Stratigraphically, this show interval occurred approximately 70' above the primary target in the lower Watton Canyon member. Following this gas and sample show the background levels were elevated [as compared to prior to the show] with connection, downtime and trip gas peaks noted. This seemed to indicate that the show zone continued to produce gas into the well bore.

The next significant geological event was encountered at 11,122'-11,124', where mud circulation was lost for a period of time. The calculated initial mud volume lost to the formation was approximately 556 barrels. Consistent seepage and occasional loss of returns occurred through the balance of drilling the original lateral on the Elkhorn #1H UPRR 19-2. A total fluid loss of 5,445 barrels was reported for the original lateral ending at 12,118' MD. Also of note, occasionally while the pumps were off during connections the well flowed mud back. The magnitude of connection and downtime gases also increased following the loss of circulation, sometimes exceeding 1,000 units. The cuttings sample quality degenerated however, due to the use of the oil skimming system and gas separator. Some gas was flared off of the gas separator, mainly connection, downtime and trip gas peaks.

The top of the main target zone was reached at 11,609' MD, TVD 10,434' (-3689'), at a vertical section of 1,385'. Due to the poor sample quality, representative samples of this zone were rarely seen. However, foaming of the mud [gas ??] brought good samples out during the interval 11,700' through 11,730'. These samples contained limestone: light to medium brown, microcrystalline to very fine crystalline, oolitic with sparry & micritic cement, moderately hard, trace clear to white calcite vein filling material, trace anhydrite, dull green fluorescence, trace slow streaming to ring cut, trace interparticle porosity. Connection gases and slightly elevated background gases were noted through the encounter with the target zone. After skimming along through the very top of the target zone for 185.5' the well bore passed out of the top of the target zone at 11,795' MD, TVD 10,423' (-3678'), at a vertical section of 1,570.5'. The formation dip calculated between these two points indicated an average dip of 3.4° up. Following a bit trip at 11,875' a trip gas was measured at 5,000 units, with a 2,560 unit recycle. Background levels were significantly elevated and connections gases were over 1,000 units following this event. Free oil was noted coming across the shale shaker screens with each connection gas from 11,929' to 11,982' MD. Mud circulation was diverted through the oil skimming system and gas separator for the balance of the drilling of the original lateral, depressing the gas readings and masking any free oil shows. Progress toward re-entering the primary target zone was slow due to hole sloughing and drag. The decision was made to move

back uphole to open hole sidetrack, in order to maximize exposure to the target zone.

Following multiple failed attempts to open hole sidetrack the well, a successful sidetrack was started at 10,442' [sidetrack "B"]. The top of the Watton Canyon member was encountered at 10,574' MD, TVD 10,436' (-3691') in sidetrack "B". A pronounced upward shift in the background gas and the return of connection gases was noted beginning at 10,835' MD. This corresponds to approximately the same stratigraphic position as the first significant hydrocarbon shows in the original lateral. Seepage and occasional loss of mud circulation were also noted in sidetrack "B", with losses of 9,347 barrels [the cumulative mud loss between the two laterals was 14,792 barrels]. Hole caving and sloughing was noted following the bit trip at 11,136'. This caving phenomenon may be related to the proximity of sidetrack "B" to the original lateral [drilling through pre-weakened rocks] and/or the presence of tectonic fracturing as evidenced by the calcite vein filling material recovered in samples. There was also evidence of cross communication [flow] between sidetrack "B" and the original lateral in the elevation of drilling mud chlorides. Sidetrack "B" was never able to reach the target zone and was abandoned at 11,171' MD, TVD 10,456' after multiple fish were lost in the hole.

## **CONCLUSIONS:**

- 1) The Elkhorn #1H UPRR 19-2 was successfully milled out of the 7" casing in the American Quasar 19-2 and deviated to 90° [horizontal].
- 2) A total measured depth of 12,118' [TVD 10,404'] was reached in the original lateral at a bottom hole location 46.4' north and 1,914.3' east of the surface location. Sidetrack "B" reached a measured depth of 11,171' [TVD 10,456'] at a bottom hole location 134.8' south and 979' east of the surface location.
- 3) A total of 185.5' of the primary target zone were drilled in the original lateral, none in sidetrack "B". Even though a relatively small portion of the hole(s) were within the primary target zone, significant hydrocarbon shows and evidence of porosity and permeability were encountered [some sample shows; connection, downtime & trip gases as well as elevated gas background; free oil in the mud; and lost circulation and cross flow between the two laterals].
- 4) When not hindered by hole slough and mechanical difficulties the directional horizontal drill rates were good [notably bit run #12 @ 20+ feet per hour].
- 5) The potentially oil productive portion of the Watton Canyon member of the Twin Creek Formation began at least 70' stratigraphically above the primary target zone. The lower stratigraphic boundary of the potential pay zone was not determined in this well. Using the top of the show interval as the "top of pay" there were 1,212' penetrated in the original lateral and 336' of potential pay in sidetrack "B".
- 6) The redrilling of the well seems well justified in order to adequately test the productive potential of the Twin Creek from a horizontal well bore.

Respectfully submitted,



Wayne Freisatz  
Sunburst Consulting

## WELL DATA SUMMARY

**OPERATOR:** UNION PACIFIC RESOURCES COMPANY

**ADDRESS:** 801 Cherry Street, MS #3706  
Ft. Worth, Texas 76102

**WELL NAME:** Elkhorn #1H UPRR 19-2

**SURFACE LOCATION:** 1,980' FNL 660' FWL  
SW NW Sec 19, T2N, R7E

**BOTTOM HOLE LOCATIONS:** original lateral 46.4' north, 1914.3' east  
sidetrack "B" 134.8' south, 979' east of surface location

**COUNTY:** Summit

**STATE:** Utah

**FIELD:** Elkhorn Ridge

**BASIN:** Overthrust Belt

**WELL TYPE:** re-entry & kick off for horizontal Twin Creek

**PERMIT #:** API# 43-043-30068

**BASIS OF PROSPECT:** Well control, seismic

**ELEVATION:** **GL:** 6721'    **SUB:** 24'    **KB:** 6745'

**START OPERATIONS:** 06:00 April 20, 1993

**TOTAL DEPTH/DATE:** June 15, 1993, 11,171' MD, 10,456' TVD

**BOTTOM HOLE DATA:**

Kick-off Point:	10,000'
Vertical Section [original]:	1,893.3'
sidetrack "B":	940.9'
Final Azimuth [original]:	80.9°
sidetrack "B":	81.5°
Target exposed [original]:	185.5'
sidetrack "B":	0'

**TOTAL DAYS:** 66    **DRILLING HOURS:** 478.25 rotating hours

**STATUS OF WELL:** Junked & abandon, skid rig to redrill

**CONTRACTOR:** SST Drilling Rig #56

**TOOLPUSHER:** "Doc" Asay, Ray Gentry, Russ Burdick

**FIELD SUPERVISORS:** Ricky J. Bohannon, Bob Austin

**MUD ENGINEERS:** Grant Newton - Milpark Drilling Fluids

**MUD TYPE:** Fresh water/gel

**WELLSITE GEOLOGIST:** Wayne Freisatz, Gary Splittberger - Sunburst Consulting

**PROSPECT GEOLOGIST:** Ross Matthews - UPRC

**MUDLOGGER:** Randy Wallis, Grant Burroughs - Sunburst Consulting

**DIRECTIONAL WORK:** Wilson Downhole [4/23-5/30]

**DRILLERS:** Ken McIntire, Larry Reid, Dave Bible, Bill Owens

Great Land Directional Drilling [5/31-6/17]

**DRILLERS:** Dane Clark, Wally Whitney, Sam Pratkanis

**MWD COMPANY:** Sperry-Sun Drilling Services

**ENGINEERS:** Tom Aurelius, Richard Davis, Justin Groom

**WIRELINE STEERING:** Scientific Drilling International  
John Valenzuela, Tim Garriott, John Beckner

**GEOLOGIC SAMPLES:** 10' caught by the mudloggers from 10,000' to TD

**HOLE SIZE:** 5.875" from 10,000' to TD

**CASING:** 7" 23# S-95 LT&C casing set at 11,419' (original hole)

**DRILL STEM TESTS:** None

**CORE PROGRAM:** None

**ELECTRIC LOGS:** None

**DISTRIBUTION:**

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Salt Lake City, Utah 84108-1203

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SPERRY-SUN DRILLING SERVICES  
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 #1-H ELKHORN 19-2  
 SUMMIT CO., UTAH  
 U.S.A.

UNION PACIFIC RESOURCES  
 #1-H ELKHORN 19-2

23-MAY 1993  
 CA-MG-30039

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
10000.00	1.44	126.66	9993.42	286.52 S	90.12 E	39.00	0.00
10109.00	10.50	72.30	10101.75	284.31 S	100.71 E	49.81	8.93
10139.00	15.20	68.10	10130.99	282.01 S	106.96 E	56.37	15.96
10170.00	20.60	65.00	10160.48	278.19 S	115.68 E	65.62	17.68
10202.00	27.60	70.60	10189.68	273.34 S	127.79 E	78.39	22.99
10233.00	31.70	77.70	10216.62	269.22 S	142.54 E	93.62	17.40
10264.00	35.50	85.20	10242.45	266.73 S	159.48 E	110.74	18.13
10294.00	37.80	79.50	10266.52	264.32 S	177.20 E	128.61	13.68
10325.00	41.50	79.90	10290.39	260.79 S	196.66 E	148.39	11.96
10357.00	44.80	74.60	10313.74	255.93 S	217.98 E	170.23	15.31
10389.00	48.60	72.50	10335.68	249.33 S	240.31 E	193.36	12.80
10420.00	52.90	72.30	10355.29	242.07 S	263.18 E	217.15	13.88
10452.00	55.20	70.40	10374.08	233.78 S	287.72 E	242.75	8.65
10483.00	59.90	69.90	10390.71	224.90 S	312.32 E	268.52	15.22
10511.00	65.30	71.50	10403.59	216.69 S	335.78 E	293.05	19.94
10540.00	69.20	73.90	10414.80	208.75 S	361.30 E	319.57	15.46
10572.00	74.50	76.00	10424.77	200.87 S	390.66 E	349.84	17.70
10603.00	80.20	79.40	10431.55	194.44 S	420.20 E	380.05	21.27
10634.00	85.10	80.80	10435.52	189.15 S	450.48 E	410.79	16.43
10665.00	84.50	79.90	10438.33	183.98 S	480.91 E	441.66	3.48
10695.00	87.80	80.20	10440.34	178.81 S	510.39 E	471.59	11.05
10727.00	90.50	81.30	10440.82	173.66 S	541.97 E	503.58	9.11
10755.00	90.90	81.10	10440.48	169.38 S	569.63 E	531.57	1.60
10787.00	90.30	80.60	10440.14	164.29 S	601.22 E	563.56	2.44
10816.00	91.00	81.10	10439.81	159.68 S	629.85 E	592.56	2.97
10846.00	91.20	80.90	10439.24	154.99 S	659.48 E	622.54	0.94
10878.00	90.60	80.60	10438.73	149.85 S	691.06 E	654.54	2.10
10908.00	90.00	80.60	10438.58	144.95 S	720.65 E	684.54	2.00
10938.00	89.90	82.50	10438.60	140.54 S	750.33 E	714.52	6.34
10968.00	89.40	82.30	10438.79	136.57 S	780.06 E	744.50	1.80
10999.00	88.60	84.60	10439.33	133.04 S	810.85 E	775.44	7.85
11030.00	87.80	81.30	10440.30	129.23 S	841.60 E	806.37	10.95
11062.00	88.30	83.10	10441.39	124.89 S	873.28 E	838.33	5.83
11091.00	88.20	81.60	10442.28	121.03 S	902.01 E	867.29	5.18
11122.00	88.20	81.00	10443.25	116.35 S	932.64 E	898.27	1.93

SPERRY-SUN DRILLING SERVICES  
 UNION PACIFIC RESOURCES  
 ELKHORN RIDGE  
 #1-H ELKHORN 19-2  
 SUMMIT CO., UTAH  
 U.S.A.

UNION PACIFIC RESOURCES  
 #1-H ELKHORN 19-2

23-MAY 1993  
 CA-MG-30039

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
11153.00	88.80	79.90	10444.06	111.21 S	963.20 E	929.26	4.04
11185.00	90.30	82.00	10444.31	106.17 S	994.80 E	961.25	8.06
11215.00	90.40	80.40	10444.13	101.58 S	1024.44 E	991.24	5.34
11246.00	90.30	82.90	10443.94	97.08 S	1055.11 E	1022.22	8.07
11309.00	91.30	80.20	10443.06	87.83 S	1117.41 E	1085.19	4.57
11372.00	90.90	83.10	10441.85	78.68 S	1179.73 E	1148.14	4.65
11435.00	91.30	80.90	10440.64	69.92 S	1242.10 E	1211.09	3.55
11495.00	91.20	81.10	10439.33	60.53 S	1301.35 E	1271.07	0.37
11526.00	91.90	80.20	10438.49	55.50 S	1331.92 E	1302.05	3.68
11557.00	92.70	80.40	10437.25	50.28 S	1362.46 E	1333.03	2.66
11619.00	94.00	82.50	10433.63	41.08 S	1423.66 E	1394.89	3.98
11682.00	92.90	79.90	10429.83	31.46 S	1485.80 E	1457.76	4.47
11711.00	92.80	80.40	10428.39	26.50 S	1514.33 E	1486.72	1.76
11741.00	93.50	82.50	10426.74	22.05 S	1543.95 E	1516.67	7.37
11772.00	94.10	81.30	10424.69	17.69 S	1574.58 E	1547.58	4.32
11801.00	92.90	78.70	10422.92	12.66 S	1603.08 E	1576.52	9.86
11831.00	93.00	80.60	10421.37	7.28 S	1632.55 E	1606.48	6.33
11868.00	94.00	76.50	10419.11	0.05 N	1668.74 E	1643.40	11.39
11899.00	94.30	76.50	10416.87	7.27 N	1698.80 E	1674.26	0.97
11929.00	94.80	76.90	10414.49	14.15 N	1727.91 E	1704.11	2.13
11955.00	94.90	79.90	10412.29	19.35 N	1753.28 E	1730.00	11.50
11986.00	94.30	79.90	10409.81	24.77 N	1783.70 E	1760.91	1.94
12016.00	92.80	80.20	10407.95	29.95 N	1813.19 E	1790.85	5.10
12048.00	92.10	80.60	10406.58	35.28 N	1844.72 E	1822.82	2.52
12079.00	92.10	80.90	10405.44	40.26 N	1875.29 E	1853.79	0.97

SPERRY-SUN DRILLING SERVICES  
UNION PACIFIC RESOURCES  
ELKHORN RIDGE  
#1-H ELKHORN 19-2  
SUMMIT CO., UTAH  
U.S.A.

UNION PACIFIC RESOURCES  
#1-H ELKHORN 19-2

23-MAY 1993  
CA-MG-30039

THE DOGLEG SEVERITY IS IN DEGREES PER 100.00 FEET  
THE VERTICAL SECTION WAS COMPUTED ALONG 80.00x (TRUE)

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 1875.72 FEET, IN THE DIRECTION OF 88.77x (TRUE)

A DECLINATION OF 13.97 TRUE HAS BEEN APPLIED TO ALL SURVEYS THROUGH MWD,  
MPSR RACKS.  
ENGINEERS, RICHARD A. DAVIS , JUSTIN GROOM

SPERRY-SUN DRILLING SERVICES  
 UNION PACIFIC RESOURCES  
 ELKHORN RIDGE  
 #1-H ELKHORN 19-2  
 SUMMIT CO., UTAH  
 U.S.A.  
 SIDETRACK B

UNION PACIFIC RESOURCES  
 #1-H ELKHORN 19-2

15-JUNE-1993  
 CA-MG-30039

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
10000.00	1.44	126.66	9993.42	286.52 S	90.12 E	39.00	0.00
10109.00	10.50	72.30	10101.75	284.31 S	100.71 E	49.81	8.93
10139.00	15.20	68.10	10130.99	282.01 S	106.96 E	56.37	15.96
10170.00	20.60	65.00	10160.48	278.19 S	115.68 E	65.62	17.68
10202.00	27.60	70.60	10189.68	273.34 S	127.79 E	78.39	22.99
10233.00	31.70	77.70	10216.62	269.22 S	142.54 E	93.62	17.40
10264.00	35.50	85.20	10242.45	266.73 S	159.48 E	110.74	18.13
10294.00	37.80	79.50	10266.52	264.32 S	177.20 E	128.61	13.68
10325.00	41.50	79.90	10290.39	260.79 S	196.66 E	148.39	11.96
10357.00	44.80	74.60	10313.74	255.93 S	217.98 E	170.23	15.31
10389.00	48.60	72.50	10335.68	249.33 S	240.31 E	193.36	12.80
10420.00	52.90	72.30	10355.29	242.07 S	263.18 E	217.15	13.88
10464.00	52.20	76.80	10382.05	232.76 S	296.84 E	251.91	8.27
10495.00	56.20	83.00	10400.20	228.39 S	321.57 E	277.02	20.72
10527.00	61.00	84.00	10416.86	225.31 S	348.70 E	304.28	15.24
10558.00	66.40	84.50	10430.59	222.53 S	376.34 E	331.98	17.48
10588.00	72.20	84.90	10441.19	219.94 S	404.27 E	359.94	19.37
10618.00	77.70	84.40	10448.98	217.23 S	433.11 E	388.80	18.40
10648.00	83.20	83.60	10453.96	214.14 S	462.52 E	418.30	18.52
10680.00	88.60	79.10	10456.24	209.34 S	494.05 E	450.20	21.94
10711.00	88.40	78.80	10457.06	203.40 S	524.47 E	481.18	1.16
10742.00	88.10	79.80	10458.00	197.65 S	554.91 E	512.16	3.37
10773.00	89.00	81.50	10458.79	192.61 S	585.49 E	543.15	6.20
10805.00	90.10	81.30	10459.04	187.83 S	617.13 E	575.14	3.49
10837.00	90.50	80.70	10458.87	182.82 S	648.73 E	607.13	2.25
10867.00	90.30	81.40	10458.66	178.16 S	678.37 E	637.12	2.43
10898.00	90.00	81.30	10458.58	173.49 S	709.01 E	668.12	1.02
10928.00	89.70	81.80	10458.66	169.08 S	738.69 E	698.10	1.94
10959.00	90.30	81.60	10458.66	164.61 S	769.36 E	729.09	2.04
10991.00	90.60	81.60	10458.41	159.93 S	801.02 E	761.08	0.94
11024.00	90.40	82.00	10458.12	155.23 S	833.68 E	794.06	1.36
11052.00	90.20	82.30	10457.97	151.40 S	861.42 E	822.04	1.29
11084.00	91.20	82.20	10457.58	147.09 S	893.12 E	854.01	3.14
11116.00	91.10	82.10	10456.94	142.72 S	924.82 E	885.98	0.44

SPERRY-SUN DRILLING SERVICES  
UNION PACIFIC RESOURCES  
ELKHORN RIDGE  
#1-H ELKHORN 19-2  
SUMMIT CO., UTAH  
U.S.A.  
SIDETRACK B

UNION PACIFIC RESOURCES  
#1-H ELKHORN 19-2

15-JUNE-1993  
CA-MG-30039

THE DOGLEG SEVERITY IS IN DEGREES PER 100.00 FEET  
THE VERTICAL SECTION WAS COMPUTED ALONG 80.00x (TRUE)

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 935.76 FEET, IN THE DIRECTION OF 98.77x (TRUE)

A DECLINATION OF 13.97 TRUE HAS BEEN APPLIED TO ALL SURVEYS THROUGH MWD,  
MPSR RACKS.

PULL OUT OF HOLE TO 10442.00 MD, FOR OPEN HOLE SIDETRACK.  
ENGINEERS, RICHARD A. DAVIS , JUSTIN GROOM

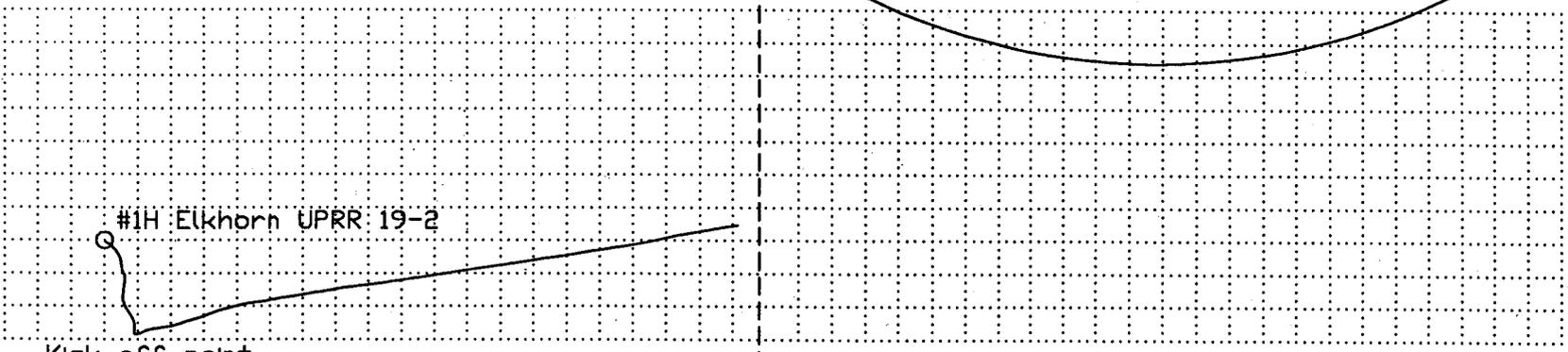
Exxon 18-1 Newton Sheep  
BHL 560' FSL, 1,443' FEL

Union Pacific  
Resources Co.

Elkhorn #1H UPRR 19-2  
Summit Co., Utah

Township 2 N., Range 7 E.  
Section 19  
1,980' FNL, 660' FWL  
Salt Lake Base & Meridian

2,000' Setback  
from Exxon BHL



#1H Elkhorn UPRR: 19-2

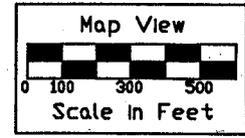
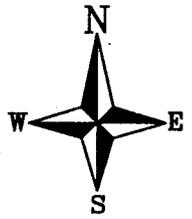
Kick off point

19

Original hole

Plotted to projected  
depth 12,118'  
TVD 10,404'

6/25/93



Sunburst  
Consulting  
Wayne Freisatz  
Geologist

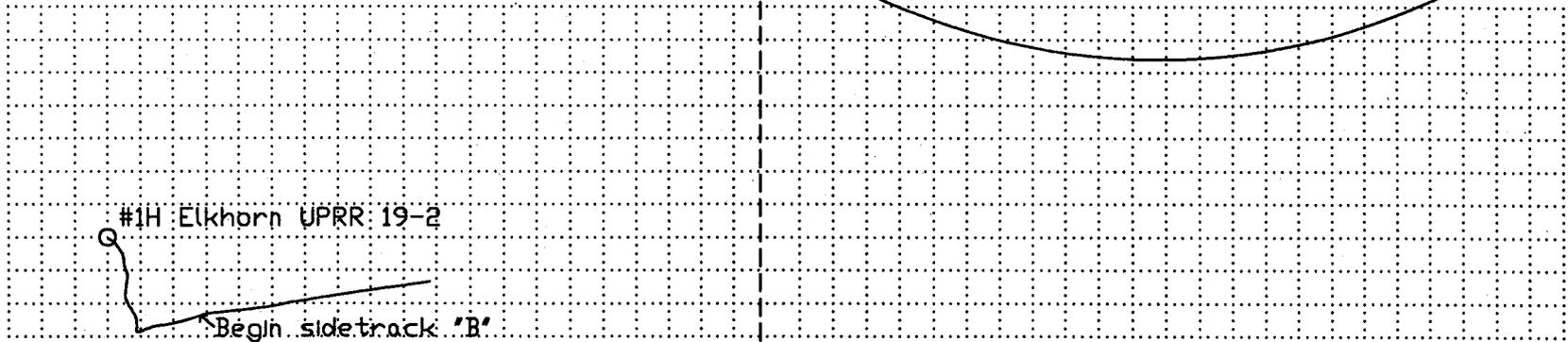
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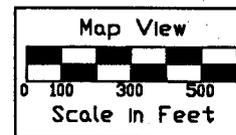
#1H Elkhorn UPRR 19-2  
Kick off point  
Begin sidetrack "B"

19

Sidetrack "B"

Plotted to projected  
depth 11,171'  
TVD 10,455.65'

6/25/93



Sunburst  
Consulting  
Wayne Freisatz  
Geologist

Vertical Section (feet)

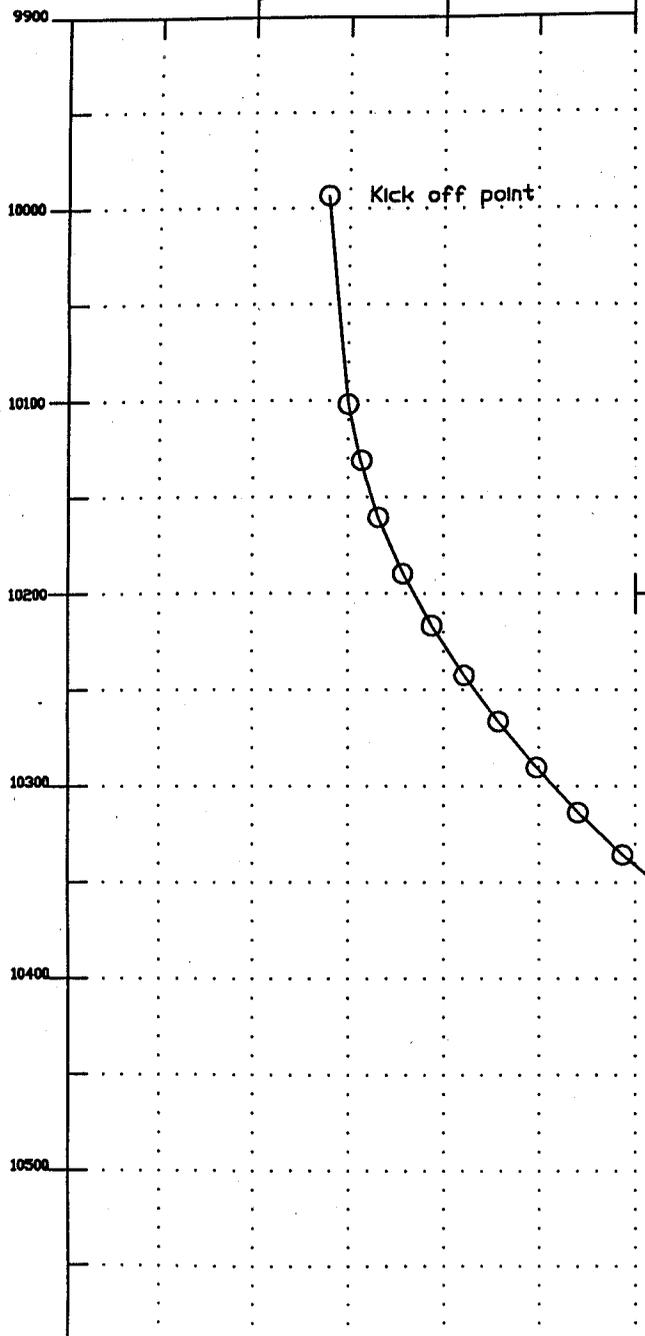
Union Pacific  
Resources Co.

Elkhorn #1H  
UPRR 19-2

Sunb

Plotted  
depth  
TVD 1  
Vertical  
1,893.3

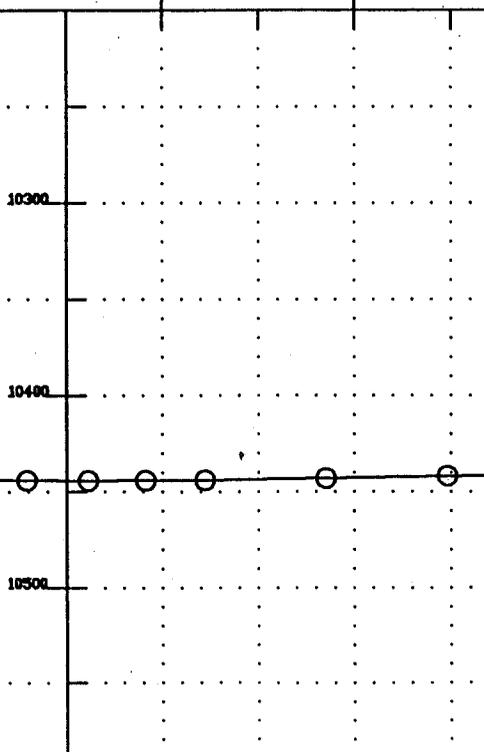
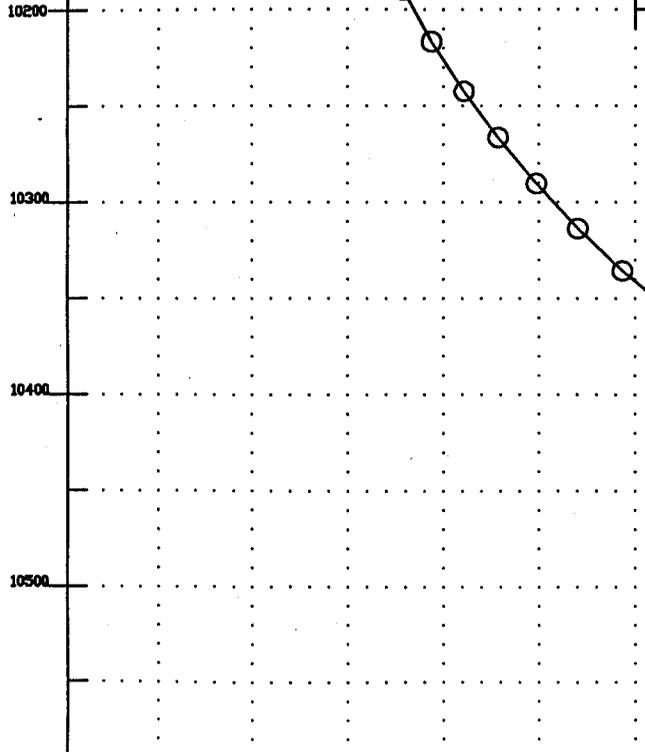
9900 100 200



True Vertical Depth

Vertical Section (feet)

300 400 500 600 700 800 900 1000 1100

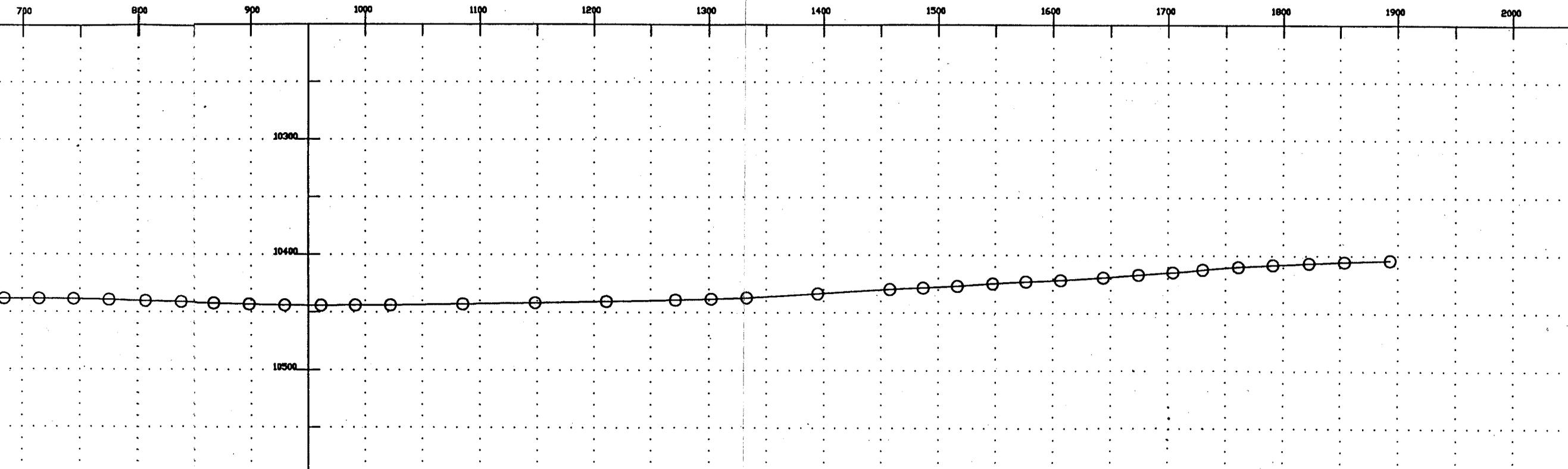


Sunburst Consulting  
Wayne Freisatz  
Geologist

Plotted to projected  
depth 12,118'  
TVD 10,404'  
Vertical Section  
1,893.3'

Original hole

6/25/93



Vertical Section (feet)

Union Pacific  
Resources Co.

Sunburst Consulting  
Wayne Freisatz  
Geologist

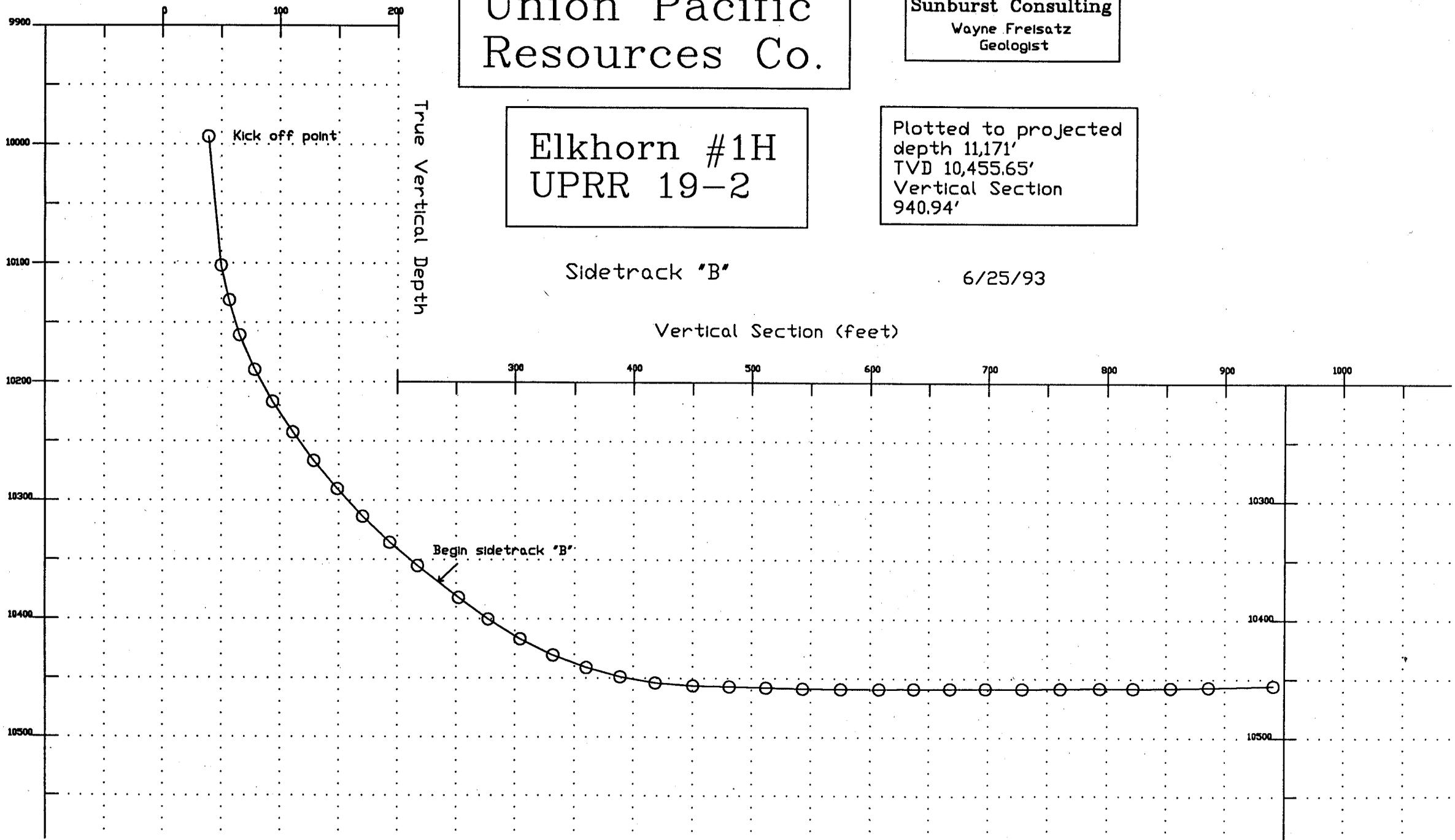
Elkhorn #1H  
UPRR 19-2

Plotted to projected  
depth 11,171'  
TVD 10,455.65'  
Vertical Section  
940.94'

Sidetrack "B"

6/25/93

Vertical Section (feet)



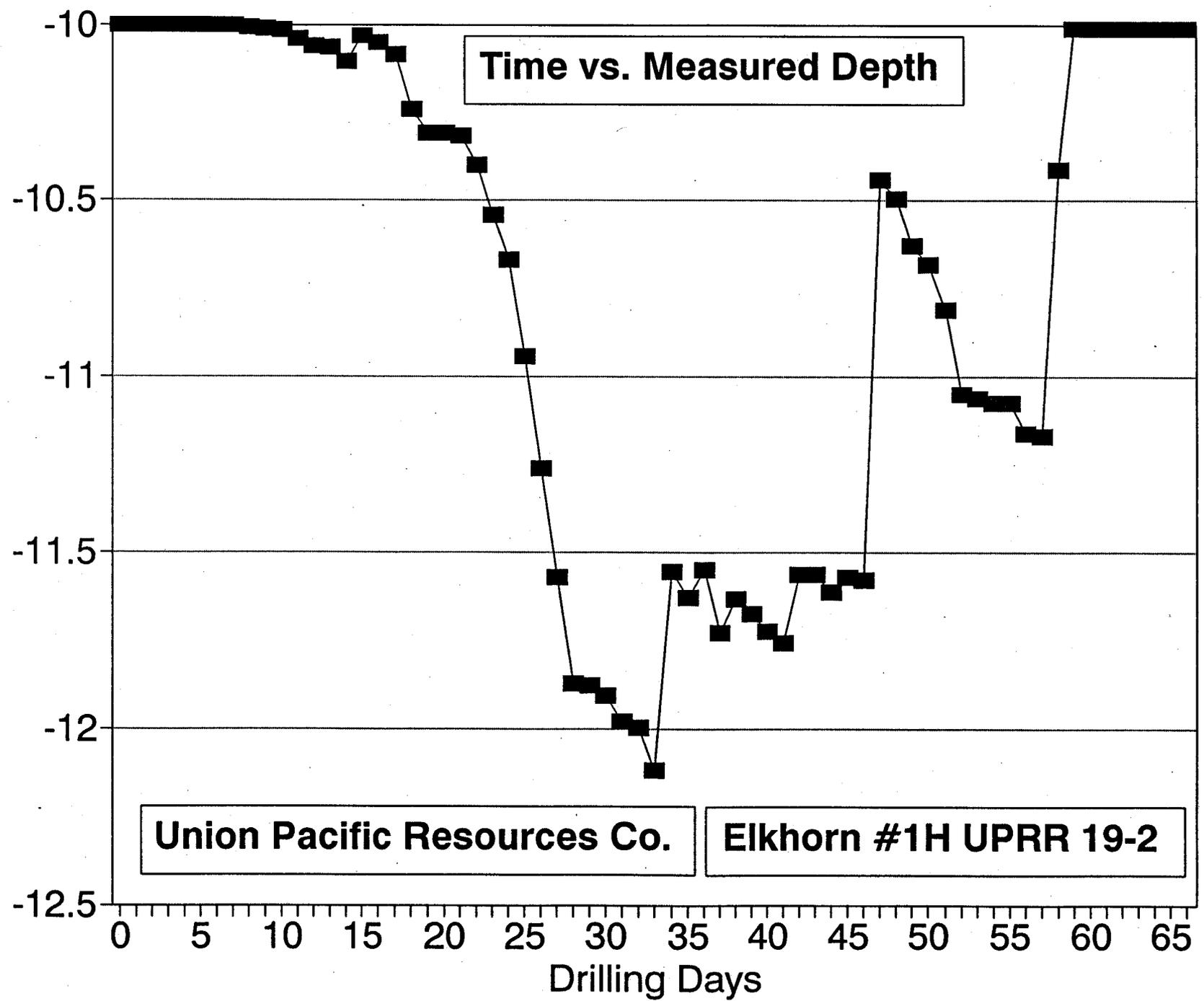
## BIT RECORD

CONTRACTOR: SST Rig #56

#1 & #2 PUMP, MAKE & MODEL: National 9-P100 9.25" stroke

BIT #	SIZE	TYPE / MAKE	JET SIZE			SERIAL#	DEPTH		HOURS	ACCUM			VERT DEV.	WT.	VIS	T	B	G
			1	2	3		OUT	FEET		HOURS	WOB	RPM						
1	6.000"	RTC HP51A	13	13	13	TW2871	10100'	0'	0.0	0.0	-	-	9.8°	8.5	28	1	1	I
2	5.875"	STC F-3	13	13	13	KT8478	10072'	58'	16.5	16.5	2/10	160MM	7.4°	8.5	28	4	6	I
3	5.875"	HTC J-3	16	16	16	ZT791	10106'	47'	9.0	25.5	5/10	220MM	10.2°	8.5	28	3	5	I
4	5.875"	Sec S4J	16	16	16	913441	10050'	8'	9.0	34.5	5/10	160MM	5.6°	8.5	28	5	7	2
5	5.875"	DBS TB-26	15	15	14	5930012	10085'	35'	9.0	43.5	5/10	200MM	8.5°	8.5	28			
6	5.875"	Sec HZ35	15	15	15	30109	10086'	1'	6.5	50.0	2/10	200MM	8.5°	8.5	28	8	3	I
7	5.875"	Sec S86F	16	16	16	559385	10307'	221'	19.5	69.5	20/50	180MM	37.8°	8.5	28	3	5	I
8	5.875"	Sec M89TF	16	16	16	566964	10307'	0'	11.5	81.0	2/8	75/80	37.8°	8.5	28	7	3	2
9	5.875"	Sec M89TF	16	16	16	402629	10317'	10'	2.5	83.5	2/10	260MM	40.0°	8.7	45	4	6	1
10	5.875"	Sec M89TF	18	18	18	402638	10544'	227'	36.5	120.0	15/40	200MM	69.2°	8.9+	44	4	F	5
11	5.875"	RTC HP53A	18	18	18	TC2407	10941'	397'	23.5	143.5	20/50	200MM	89.9°	9.0	37	5	5	I
12	5.875"	RTC HP53A	18	18	18	TC2412	11875'	934'	45.75	189.25	15/70	340MM	92.9°	8.5	32	5	8	8
13	5.875"	Sec S86F	18	18	18	90280	11982'	107'	14.25	203.5	20/95	370MM	94.3°	8.6	35	5	8	4
14	5.875"	RTC HP53J	16	16	18	A35209	12118'	136'	11.0	214.5	10/70	330MM	92.1°	8.5	30	3	8	6
15	5.875"	Hyc DS36	18	18	18	34621	11625'	30'	31.5	246.0	2/10	290MM	92.7°	8.5	36	1	X	I
16	5.875"	RTC HP53J	18	18	18	A21119	11738'	14'	16.0	262.0	20	290MM	94.0°	8.6	42	lost		
17	5.875"	Sec S33F	18	18	18	618405	11687'	55'	26.0	288.0	45/60	310MM	92.7°	8.5	36			
18	5.875"	Sec S86F	18	18	18	564381	11755'	79'	22.5	310.5	20	290MM	94.0°	8.5	38	lost		
19	5.875"	Sec S3J	18	18	18	364061	11562'	10'	9.0	319.5	15/20	220MM	92.7°	8.5	36			
20	5.875"	Sec S4J	18	18	18	913787	11611'	49'	14.5	334.0	5/25	290MM	92.7°	8.5	35	4	8	1
21	5.875"	DBS TBT521	13	13	14	2802033	11578'	33'	28.0	362.0	5/30	290MM	92.7°	8.6	42	1	X	I
22	5.875"	Hyc DS36	18	18	18	34621	11658'	80'	9.0	371.0	5/20	290MM	92.7°	8.5	41			
23	5.875"	Sec M89TF	18	18	18	551328	10638'	196'	43.5	414.5	10/30	290MM	77.7°	8.5+	40	4	7	1
24	5.875"	STC F3	18	18	18	CW1015	10684'	46'	8.5	423.0	5/20	290MM	88.6°	8.6	36	3	6	I
25	5.875"	Sec M89TF	18	18	18	551322	11062'	378'	35.5	458.5	10/35	330MM	90.4°	8.7	37	8	8	8
26	5.875"	Sec S86F	18	18	18	281281	11136'	74'	14.25	472.75	10/30	190MM	90.2°	8.6	35	7	8	2
27	5.875"	Hyc DS-56	18	18	18	35450	11171'	34'	5.5	478.25	5/20	220MM	91.1°	8.7	37	lost		

Thousands of feet Measured Depth



## DAILY DRILLING ACTIVITY

<u>DAY</u>	<u>DATE</u>	<u>DEPTH</u>	<u>PROG</u>	<u>BIT</u>	<u>WOB</u>	<u>RPM</u>	<u>PP</u>	<u>WT</u>	<u>VIS</u>	<u>PV/YP</u>	<u>pH</u>	<u>WL</u>	<u>Cl-</u>	<u>SOL</u>
1	4/21/93	10540'	0'	-	-	-	-	8.5	28	-	8.0	-	15K	-
2	4/22	10085'	0'	-	-	-	-	8.5	28	-	8.0	-	22K	-
3	4/23	10015'	0'	-	-	-	-	8.5	28	-	8.0	-	15K	-
4	4/24	10015'	0'	-	-	-	-	8.5	28	-	8.0	-	15K	-
5	4/25	10015'	0'	-	-	-	-	8.5	32	2/3	8.5	-	17K	2.0
6	4/26	10015'	0'	-	-	-	-	8.7	32	2/5	10.0	-	13K	2.0
7	4/27	10015'	0'	-	-	75	1150	8.8	32	2/6	10.5	-	13K	2.0
8	4/28	10006'	6'	-	2/10	75	1150	8.7	35	2/7	10.5	-	13K	3.0
9	4/29	10012'	6'	-	2/10	75	1000	8.8	45	7/26	10.5	-	15K	3.0
10	4/30	10014'	2'	-	2/10	75	1050	8.8	41	5/14	10.5	-	15K	3.0
11	5/01	10040'	26'	1	10	160MM	1700	8.5	28	-	8.5	-	18K	-
12	5/02	10059'	19'	1	10	160MM	1700	8.5	28	-	8.0	-	18K	-
13	5/03	10066'	7'	2	3/6	220MM	2000	8.5	28	-	7.5	-	18K	-
14	5/04	9950'	0'	3	3/6	220MM	2000	8.5	28	-	7.5	-	16K	-
15	5/05	10031'	81'	4	-	-	-	8.5	28	-	7.5	-	16K	-
16	5/06	10050'	19'	4/5	5	200MM	1600	8.5	28	-	8.5	-	15K	-
17	5/07	10085'	30'	5	2/10	200MM	1600	8.5	28	-	8.5	-	12K	-
18	5/08	10241'	156'	6/7	10/12	280MM	1900	8.5	28	-	10.5	-	12K	-
19	5/09	10307'	66'	7	20/50	180MM	1900	8.5	28	-	10.5	-	12K	-
20	5/10	10307'	0'	8/9	2/8	200MM	1650	8.5	28	-	10.5	-	12K	-
21	5/11	10317'	10'	9/10	10	260MM	2200	8.7	45	4/20	10.5	28	3500	3.0
22	5/12	10398'	81'	10	40/60	200MM	2000	8.8	60	8/16	10.5	29	3700	4.0
23	5/13	10539'	141'	10	15/20	200MM	2000	8.8	60	6/16	10.5	35	3700	4.0
24	5/14	10667'	128'	10/11	20/50	200MM	1950	8.9	44	5/16	10.0	40	4000	5.0
25	5/15	10941'	274'	11/12	20/50	200MM	1950	8.9	37	5/10	10.0	56	4000	5.0
26	5/16	11259'	318'	12	20/50	340MM	2000	9.0	35	4/8	9.5	65	4000	5.0
27	5/17	11570'	311'	12	20/70	330MM	1900	8.5	32	2/4	9.5	-	4800	1.0
28	5/18	11871'	301'	12	20/65	330MM	1900	8.5	32	2/1	9.5	-	3200	1.0
29	5/19	11875'	4'	12/13	2/70	330MM	2000	8.5	30	-	9.0	-	3500	1.0
30	5/20	11907'	32'	13	2/5	330MM	2000	8.6	40	7/25	11.0	35	1200	2.0
31	5/21	11982'	75'	13/14	20/95	330MM	2300	8.6	35	3/11	10.5	42	1500	2.0
32	5/22	11997'	15'	14	10/20	330MM	1950	8.6	32	2/6	10.5	50	1500	2.0
33	5/23	12118'	121'	14	10/70	330MM	2000	8.5	30	2/4	10.0	44	700	1.0
34	5/24	11556'	12'	15	2/10	290MM	2000	8.5	32	2/4	10.0	52	1500	1.0
35	5/25	11630'	22'	15	2	290MM	1750	8.5	32	2/4	10.0	52	1500	1.0
36	5/26	11550'	6'	16	5	290MM	1950	8.5	36	6/7	10.0	32	1000	1.0
37	5/27	11727'	26'	16	15/20	290MM	1950	8.6	40	6/20	10.0	28	900	2.0
38	5/28	11634'	13'	17	20	310MM	2000	8.6	42	8/8	10.0	24	700	2.0
39	5/29	11687'	53'	17	45/60	310MM	2000	8.5	36	6/4	9.5	20	700	1.0
40	5/30	11724'	48'	18	20	290MM	2300	8.5	35	4/4	10.0	24	700	1.0
41	5/31	11755'	31'	18	20	290MM	2300	8.5	38	4/7	10.5	22	700	1.0
42	6/01	11562'	10'	19	5/10	220MM	1850	8.5	36	4/7	10.0	24	700	1.0
43	6/02	11563'	1'	20	5/15	290MM	1850	8.5	36	4/7	10.0	24	700	1.0
44	6/03	11611'	48'	20	5/25	290MM	1800	8.5	35	4/9	10.5	28	500	1.0
45	6/04	11572'	27'	21	5/15	290MM	2050	8.5	32	3/2	10.0	26	500	1.0
46	6/05	11578'	6'	22	5/15	290MM	2000	8.6	42	9/7	10.5	18	500	1.0
47	6/06	10443'	1'	23	5/15	290MM	1900	8.5	41	8/10	10.0	19	700	1.0
48	6/07	10490'	47'	23	5/10	290MM	1950	8.5	38	5/12	10.0	25	700	1.0
49	6/08	10626'	136'	23	10/30	290MM	2050	8.5	38	5/5	10.0	26	700	1.0
50	6/09	10681'	55'	24	10/35	290MM	2000	8.5+	40	7/11	10.0	24	1000	1.0
51	6/10	10811'	130'	25	5/35	330MM	2150	8.6	36	4/12	10.0	34	2700	2.0
52	6/11	11050'	239'	25	10/30	330MM	2300	8.6+	37	7/10	10.0	36	2500	2.5
53	6/12	11062'	12'	25	10/35	330MM	2300	8.7	45	8/17	10.0	40	2200	3.0
54	6/13	11074'	12'	26	10/25	190MM	2300	8.7	37	4/7	9.0	44	4600	2.5
55	6/14	11136'	62'	26	10/30	190MM	2250	8.6	35	5/5	9.0	38	2500	2.5
56	6/15	11160'	24'	27	5/8	40/220	2350	8.7	35	5/5	9.0	40	3200	3.0
57	6/16	11171'	11'	27	5/20	40/220	2350	8.7	38	6/8	9.5	36	2000	3.0

<u>DAY</u>	<u>DATE</u>	<u>DEPTH</u>	<u>PROG</u>	<u>BIT</u>	<u>WOB</u>	<u>RPM</u>	<u>PP</u>	<u>WT</u>	<u>VIS</u>	<u>PV/YP</u>	<u>pH</u>	<u>WL</u>	<u>Cl-</u>	<u>SOL</u>
58	6/17	11171'	0'	27	-	-	-	8.6	36	5/12	10.0	30	1500	2.0
59	6/18	10009'	-	-	-	-	-	8.6	35	4/6	10.0	30	1300	2.0
60	6/19	10009'	-	-	-	-	-	8.4	30	1/1	9.0	40	1000	1.0
61	6/20	10009'	-	-	-	-	-	8.4	29	1/1	9.0	40	1000	1.0
62	6/21	10009'	-	-	-	-	-	8.4	29	1/1	9.0	40	1000	1.0
63	6/22	10009'	-	-	-	-	-	8.3	28	-	9.0	-	800	-
64	6/23	10009'	-	-	-	-	-	8.3	28	-	9.0	-	800	-
65	6/24	10009'	-	-	-	-	-	8.3	28	-	9.0	-	800	-
66	6/25	10009'	-	-	-	-	-	8.3	28	-	9.0	-	800	-

## DRILLING CHRONOLOGY

- Day 1      4/21/93 - Rig up SST Rig #56; rig up oil skimming system; rig up to tubing with BOP & closing unit, casing & tubing dead; rig up lay down machine & lay down 2.875" tubing; make up tubing handling tools & safety valve; unseat anchor catcher; while breaking out & laying down tubing joint 128 well started unloading oil through tubing, stabbed TRW valve, closed in well, blew well down - recovered gas; clean oil & paraffin off rig
- Day 2      4/22/93 - Finished cleaning off rig; circulated out well, recovered 250-300 barrels of oil to skimmer tank; finished laying down tubing, filling backside & tubing every 15 joints - approximately 900 barrels of 8.5# production water; rig down pipe lay down machine partially; rig up & run cement bond log - bond good; rig up & run bridge plug @ 10,085' & dump 2 sacks of cement on plug; rig down BOP - well static
- Day 3      4/23/93 - Change out BOPs & test to 3000 psi for 15 minutes; nipple up & modify BOPs, bell nipple & flow line; test BOPs - OK; rig up & run bridge plug
- Day 4      4/24/93 - Finish tripping & setting bridge plug @ 10,015'; rig up pipe handlers; pick up 7" casing scraper & 4" drill pipe to 10,011'; circulate & displace approximately 90 barrels of oil cut fluid to skimmer tanks; circulate & mud up to mill window
- Day 5      4/25/93 - Circulate & condition mud; pressure test 7" casing to 1500 psi for 15 minutes - OK; trip out - SLM; pick up AZ Grant pack stock & dress; pick up 25 joints heavy weight drill pipe, trip in pack stock, tag @ 9,540' with 10,000 #, worked free with 2,000 increments to 40,000 overpull, came loose without jarring; trip out pack stock, stand back pack stock; wait on orders; pick up watermelon mill & window mill & trip in to clear obstruction
- Day 6      4/26/93 - Trip in milling assembly; kelly up & tag @ 9,540', mill from 9,540' to 9,547' with no weight, then torqued up with no further progress, fine cuttings on ditch magnet; trip out milling assembly; lay down mills & pack stock tools; rig up & run wireline caliper log, casing collapsed down to 5.69" between 9,517' & 9,550', rig down wireline; wait on swage & tools; trip in swaging assembly; swage casing out to 5.875"; trip out swaging assembly
- Day 7      4/27/93 - Trip out swaging assembly; pick up pack stock & trip in; rig up & run wireline steering tool & set pack stock to 81°; pressure up to 3000 psi & set packer, shear running tool, break circulation; starter mill run 19", ream starter hole; circulate; trip out pack stock running tools & starter mill; pick up window mill & trip in
- Day 8      4/28/93 - Finish tripping in milling assembly; milled, torqued & stalled rotary, worked free, continued milling until lack of progress, pumped sweep, tripped out

mill, found mill worn to cone shape; slip & cut drilling line; service rig; pick up second milling assembly & trip in; worked to bottom & milled, mill stopped, pumped high viscosity sweep; trip out milling assembly

- Day 9 4/29/93 - Finished tripping out 2nd milling assembly; serviced rig & checked BOPs; trip in milling assembly #3; work mill to bottom - no progress, circulated bottoms up; trip out milling assembly #3 - found center cored out 0.25"; picked up bullet mill & trip in; worked bullet mill to bottom & milled; pumped sweep; trip out bullet mill
- Day 10 4/30/93 - Finished tripping out bullet mill; picked up clean out mill assembly; trip in window mill & watermelon mill assembly; elongate casing window from 10,001' to 10,014', working mill through section several times; circulated high viscosity sweep; trip out clean out milling assembly; service rig & check BOPs; nipple down flow line, nipple up AZ Grant rotating head, bolt holes needed tapping out; picked up mud motor & MWD; dumped pits, clean primer pump, fill tanks with water
- Day 11 5/01/93 - Finished cleaning tanks & filling with 8.5# production water; repair 2" Swaco union & rubber; test mud motor & MWD; tighten rotating head leaks; trip in angle build assembly; rig up & run wireline steering tool, could not seat steering tool, trip out wireline; kelly up & pump drill pipe clean, trip in steering tool; drill (slide); tighten leaking rotating head; service rig; drill (slide); survey; drill (slide)
- Day 12 5/02/93 - Trip out to check mud motor; change BHA & test, stand back in derrick; nipple down rotating head & repair leaking gasket, install spacer, change flange; service rig; trip in new BHA & break circulation; work bit to bottom; drill (slide) - stalling out, worked mud motor in 20' interval until drilling; survey, released wireline company; drill (slide) - stalling
- Day 13 5/03/93 - Drill (slide), had 3 quick feet then stopped drilling; circulated sample - found 20-30% cement, took 4 MWD surveys [2.4°, 1.9°, 1.8°, 1.6°]; trip out - SLM; change BHA - without gamma ray on MWD; wait on mud motor; pick up new mud motor & test; trip in filling drill pipe every 30 stands; wait on wireline steering tool; rig up wireline steering tools & calibrate; trip in wireline steering tool & orient; test MWD; time drill (slide) 10,059' - 10,063' to kick hole off
- Day 14 5/04/93 - Time drill (slide); trip in wireline steering tool & orient; cycle pumps & calibrate MWD, survey; attempting time drill, appeared bit walking down old hole; ream hole 10,039' - 10,106'; trip out to set cement plug; trip in open ended; circulate, rig up cementers; plug back with 50 sacks AG-250, with 0.5% CFR-3 & 0.3% HR-5 (6 bbls.); pull out 10 stands; circulate; wait on cement
- Day 15 5/05/93 - Wait on cement, cut & slip drilling line; trip in to 9,945' - no cement, trip in & tag cement @ 10,052', soft cement; trip out 10 stands, wait on cement,

- circulate, no cement returns; trip in & tag cement @ 10,031'; trip out - SLM; pick up mud motor & MWD, trip in filling pipe every 30 stands; rig up & run wireline steering tool, orient
- Day 16 5/06/93 - Finish orient; service rig; time drill (slide) 10,042' - 10,050', stalling; circulate & prepared to trip out for bit; picked up side track bit, mud motor, tested; trip in filling every 30 stands; wash 10' to bottom; rig up & run wireline steering tool, orient; drill (slide)
- Day 17 5/07/93 - Drill (slide); circulate; trip out for BHA; change out bit, mud motor & pick up MWD gamma ray; trip in; wash from 10,040' - 10,055'; rig up & run wireline steering tool, orient; ream 10,055' to 10,085'; rig & run wireline steering tool, orient
- Day 18 5/08/93 - Orient; attempt drill (slide) - stalling; trip out for mud motor & bit; change BHA - found bit blade gone & inserts missing; trip in new BHA, filling every 30 stands; wash & work past junk 20'; drill (slide); survey
- Day 19 5/09/93 - Drill (slide); logging with MWD gamma ray; drill (slide); trip out for BHA change - building angle to quickly; change mud motor & bit; trip in & test MWD & motor; rotate reaming from 10,053' - 10,095'; trip out for reaming assembly; lay down mud motor, MWD & stand monels back in derrick
- Day 20 5/10/93 - Wait no reaming tools; trip in reaming assembly; ream; pump high viscosity pill to combat packing off around stabilizers; trip out for angle build assembly; repair torque master line & unit; pick up new BHA & test; trip in filling every 30 stands
- Day 21 5/11/93 - Wash & ream 10,001' - 10,085', hole starting to pack off at connections; mix & pump 80 viscosity sweep; wash & ream 10,085' - 10,106', hole starting to pack off, made several attempts at making connection, sticking, pulled 65,000 over to get free; trip into casing 5 stands; rig up flowline & dump pits, fill with fresh water, mud up pits; displace hole with mud; wash & ream 10,106' - 10,307', raising viscosity to 50, mica & sand coming over shaker with formation cuttings; drill (slide); wash & ream; drill (slide); pump pill for trip out to check motor & bit
- Day 22 5/12/93 - Change mud motor & test; trip in filling every 30 stands; wash & ream 10,204' - 10,317', unloading large volume pea gravel cuttings/cavings then cleaned up to normal cuttings; drill (slide); test & calibrate MWD; drill (slide); short trip; drill (slide)
- Day 23 5/13/93 - Drill (slide); survey; drill (slide); wiper trip 5 stands; drill (slide); survey; drill (slide)
- Day 24 5/14/93 - Drill (slide); trip out - SLM) make 6' correction downhole; change

BHA & test; slip & cut drilling line, service rig; trip in filling every 30 stands; wash 90' to bottom, 5' fill; drill (slide); drill (rotate); survey

- Day 25 5/15/93 - Drill (slide); drill (rotate); survey & orient; circulate samples @ 10,941'; trip out for BHA change; pick up mud motor & MWD, test
- Day 26 5/16/93 - Trip in filling every 30 stands; wash & ream 10,711' - 10,941'; drill (slide); drill (rotate); survey & orient; lost complete circulation @ 11,121' - 11,124', lost 556 bbls., worked pipe & circulated 8.4+ water down hole to regain circulation; circulating through skimmer tank system for remainder of well; drill (rotate)
- Day 27 5/17/93 - Drill (rotate); drill (slide); survey & orient; circulate samples - no cuttings coming back; service rig; flow noted during connections @ 250 bbls./hour; drill (rotate); drill (slide)
- Day 28 5/18/93 - Drill (rotate); drill (slide); survey & orient; work tight hole @ 11,540' - 11,570', lost circulation for 20 minutes, pump high viscosity pill, regained circulation, lost 350 bbls.; service rig; bent kelly when automatic drill slacked off all weight after connection; drill (rotate); flaring gas while drilling 5' expanding to 20' at times
- Day 29 5/19/93 - Drill (slide); survey; trip out for BHA, hole tight, ream back to bottom, pipe stuck above mud motor, mix pill & pump, came free; circulate out large amount of cuttings/cavings; well flowing, flowed 43 barrels then died after 30 minutes; trip out; change out BHA & kelly, nipple down rotating head & add 4' spacer spool, install 10" flow line, nipple back up; pick up new BHA & start trip in hole, hit tight spot @ 10,241', kelly up; work tight hole & circulate high viscosity sweeps
- Day 30 5/20/93 - Ream 10,176' to 11,875', pumped numerous sweeps, mud up, occasional lost circulation, lost a total of 496 barrels while reaming; drill (slide); drill (rotate); survey & orient; work tight hole 11,875' - 11,902'
- Day 31 5/21/93 - Drill (slide); drill (rotate); survey & log MWD gamma ray; attempt 5 stand short trip, pipe sticking, pulled 40-50K over string weight, trip out & lay down 15 joints drill pipe & wash & ream back to bottom; trip out for BHA; laid down 104 joints 4" drill pipe; pick up new BHA; pick up 3.5" drill pipe
- Day 32 5/22/93 - Pick up 3.5" drill pipe; rig down pipe handlers; service rig; trip in to 10,241' - hit bridge; wash & ream 10,241' - 11,982', hit several bridges, taking fluid; survey & orient; service rig; drill (rotate); survey; drill (slide)
- Day 33 5/23/93 - Drill (slide); drill (rotate); survey, orient, log MWD gamma ray; short trip, work tight hole, pump high viscosity sweeps; drill (rotate); trip for bit - SLM; change BHA & test MWD & mud motor

- Day 34 5/24/93 - Finish testing MWD & mud motor; slip & cut 114' drilling line; trip in filling pipe every 30 stands, hit tight spot @ 10,109', kelly up & broke circulation; wash & ream 10,109' to 11,544'; survey & orient; time drill (slide) from 11,544' to 11,556' to open hole sidetrack
- Day 35 5/25/93 - Timed drill (slide) 11,556' to 11,567', 10 minutes per inch, no apparent sidetrack; trip in to 11,619'; survey & orient; time drill (slide) to sidetrack from 11,619' to 11,630', 10 minutes per inch, no apparent sidetrack
- Day 36 5/26/93 - Trip out for bit, PDC bit not damaged; change BHA & test; trip in to 11,544' filling pipe every 30 stands; wash last 60' to bottom, orient; time drill (slide) to open hole sidetrack from 11,544' to 11,550', 10 minutes per inch
- Day 37 5/27/93 - Time drill slide at 5 minute per inch 11,550' to 11,555', pipe wall sticking, work free; time drill 3 minutes per foot 11,555' to 11,561', 2 minutes per foot 11,561' to 11,567', 1 minute per foot 11,567' to 11,573', no ledge; trip in 5 joints to 11,724' to attempt new sidetrack, work pipe from 11,724' to 11,755' to clear wall sticking; time drill (slide) to open hole sidetrack from 11,724' to 11,727', 10 minutes per inch, no wall sticking noted
- Day 38 5/28/93 - Timed drill 11,727' to 11,729' @ 10 minutes per inch, 11,729' to 11,732' @ 7 minutes per inch, 11,732' to 11,738' @ 5 minutes per inch, no apparent ledge built; trip out to check BHA, found bit & 8.33 of mud motor left in hole; pick up new BHA, test; trip in filling pipe every 30 stands, tag fish @ 11,738'; work to push fish down hole, no results; laid down 4 joints of drill pipe to begin new sidetrack effort @ 11,632'; work trough, time drill from 11,632' to 11,634', 10 minutes per inch
- Day 39 5/29/93 - Time drill (slide) 11,634' to 11,637' @ 10 minutes per inch, 11,637' to 11,642' @ 5 minutes per inch, redrill 11,637' to 11,642' @ 2 minutes per inch, appeared to have built ledge, drill (sliding) from 11,643' to 11,676', survey showed same angle as original hole; time redrill (slide) 11,643' to 11,676', set weight on ledge, no pump pressure or reactive torque while attempting to drill on ledge; trip out to check bit & BHA
- Day 40 5/30/93 - Trip out to check bit & BHA, laid down motor with bearing & seal failure, bit slightly pinched; pick up new BHA & bit, test; trip in filling pipe every 30 stands; time drill (slide) @ 1 minute per inch 11,640' to 11,724'; survey showed no sidetrack
- Day 41 5/31/93 - Time drill @ 1 minute per inch from 11,724' to 11,755', drilled past fish, starting to build rather than drop angle, no reactive torque or pump pressure differential; survey, check shot on bottom & 30' off bottom to confirm surveys, OK; trip out to check bit & BHA, found bit & portion of mud motor left in hole, SLM & found 25' error [driller's depth 11,755', pipe tally 11,780'], no correction applied due to fish in hole; released Wilson Downhole directional

drilling & laid down their tools; wait on Great Land directional drillers & tools; pick up Great Land tools

- Day 42 6/01/93 - Pick up Great Land tools; trip in hole filling every 30 stands; work pipe 11,157' to 11,537'; work trough from 11,537' to 11,552'; time drill (slide) from 11,552' to 11,562', wall sticking; trip out to check bit
- Day 43 6/02/93 - Finish trip out; pick up watermelon mill assembly; trip in to 10,009'; wash & ream with milling assembly 10,009' to 11,202'; trip out wet; lay down reaming assembly; pick up 2.25 degree build assembly, test mud motor & MWD; trip in filling every 30 stands; hit tight spot @ 10,536'; wash & ream from: 10,536' to 10,596', 10,720' to 10,780', 11,243' to 11,303', & 11,458' to 11,562'; survey & orient; time drill (slide) 3 minutes per inch from 11,562' to 11,563'
- Day 44 6/03/93 - Timed drill (slide) from 11,563' to 11,604'; survey & orient; drill 11,604' to 11,611'; trip out for bit change; pick up diamond composite insert bit, test mud motor & MWD, trip in filling every 30 stands
- Day 45 6/04/93 - Finish trip in; wash & ream from 11,342' to 11,545'; work ledge & orient tools; time drill (slide) from 11,545' to 11,550' @ 5 minutes per inch, 11,550' to 11,560' @ 4 minutes per inch, 11,560' to 11,572' @ 2 minutes per inch; there is a ledge developing able to hold 40K weight with pumps kicked out
- Day 46 6/05/93 - Timed drill (slide); work hole; time drill (slide); trip out for BHA; pick up 1.25 degree steerable assembly, MWD and RR bit #15; test MWD and mud motor; rig service and check BOPs; trip in filling pipe every 30 stands; ream 11,515' to 11,557'; drill
- Day 47 6/06/93 - Drill (slide) 11,557' to 11,570'; work ledge and sidetrack hole 11,570' to 11,578'; pick up drill pipe and work 11,578' to 11,658' in old hole; trip out for sidetrack assembly; pick up BHA; test MWD and mud motor; cut 114' drilling line; trip in with bit #23; work groove in hole; time drill 10,442' to 10,443'
- Day 48 6/07/93 - Time drill 10,443' to 10,465'; drill (slide) 10,465' to 10,490'
- Day 49 6/08/93 - Drill (slide) 10,490' to 10,493'; wash and ream; clean out sidetrack hole 10,465' to 10,493'; drill (slide) 10,493' to 10,626'
- Day 50 6/09/93 - Drill (slide) 10,626' to 10,638'; trip out for new bit; change out MWD probe; check mud motor; trip in, filling drill pipe every 30 stands, to 10,440'; survey and orient tool face to get back in new hole; trip in to 10,608'; wash 30' to bottom; drill (slide) 10,638'-10,681'
- Day 51 6/10/93 - Drill (slide) 10,681'-10,684'; trip out for steerable assembly; lay down

mud motor and MWD; pick up 1.25 degree steerable assembly and MWD; test motor and MWD; trip in to 10,440'; survey and orient into new hole; trip in to 10,684'; drill 10,684'-10,811'

- Day 52 6/11/93 - Drill (rotate) 10,811'-10,937'; drill (slide) 10,937'-10,950'; drill (rotate) 10,950'-10,997'; drill (slide) 10,997'-11,004'; drill (rotate) 11,004'-11,050'
- Day 53 6/12/93 - Drill (rotate) 11,050'-11,060', trip out for bit (2 shanks & cones gone); lay down directional tools; wait on magnet; trip in with magnet to 10,212'; wash and ream 10,212'-10,242'; trip in to top of fish @ 11,061'; work magnet; trip out with one cone and shank body; trip in with magnet
- Day 54 6/13/93 - Trip in with magnet; wash 11,002'-11,062' to top of fish; work magnet; trip out with last cone and shank; lay down magnet; pick up directional tools; trip in with bit 26 to 10,062'; drill (slide) 11,062'-11,074'
- Day 55 6/14/93 - Drill (rotate) 11,074'-11,136'; survey & orient; trip out for bit - SLM (no correction); change BHA & test; trip in; slip & cut drilling line; trip in & orient into new hole; ream 10,970'-11,001'; stuck bit @ 11,001', mixed high viscosity pill with lubricating beads & pumped
- Day 56 6/15/93 - Worked bit free, pumped high viscosity pill; attempted washing to bottom without success, laid down 8 joints of pipe to work hole; circulated & conditioned mud, began recovering cavings from hole; wash & ream to bottom; drill (rotate); pump beads; re-log gamma ray with MWD; attempted drill (slide) - would not go; survey
- Day 57 6/16/93 - Drill (rotate) 11,160'-11,171'; mud motor stalled, pressure dropped; trip out to check BHA, found bit, bearing pack & rotor left in hole, also found 8 joints bent & cracked 3.5" drill pipe; picked up replacement 3.5" drill pipe; wait on fishing tools & inspected non-magnetic drill collars - no damage; pick up overshot & grapple, trip in hole; hit tight spot @ 10,228' due to stiff assembly; work fishing tools down to top of fish
- Day 58 6/17/93 - Attempted to wash & ream fishing assembly on to fish, had excessive torque & drag; circulated bottoms up & tripped out fishing assembly, encounter drag, pipe stuck, jarred pipe free; circulated bottoms up; trip out fishing assembly, found 3.5" drill pipe parted, left 11 joints drill pipe & fishing assembly in hole; wait on fishing tools; picked up 4" drill pipe to replace 3.5" drill pipe; picked up overshot & fishing assembly; trip in to top of fish @ 10,413'; attempted to latch on to fish, gained 6,000 pounds on weight indicator; trip out fishing assembly - no recovery, overshot scarred on outside lip area; trip same fishing assembly & attempt to work on to fish - no results; trip out fishing assembly; Sunburst geologist & mudlogger placed on standby for upcoming plug back operations

- Day 59**      6/18/93 - Finish trip out with fishing assembly - no recovery; lay down fishing tools; trip in & lay down 3.5" drill pipe with lay down machine; pick up & run in 7" cement retainer, set @ 9,600' with wireline; make up stinger BHA, trip in with stinger assembly on 4" drill pipe to retainer; sting into cement retainer & pump 500 sacks class "H" cement, AG-250 with 0.5 CFR-3, 0.2% HR-5, for a total of 86.6 barrels; wait on cement, pull out of stinger & pump 2 barrels every hour to insure stinger & drill pipe clear; pressure up to test squeeze, pump 8.5 barrels @ 2 bbls./minute - no pressure increase; wait on cement for second squeeze job
- Day 60**      6/19/93 - Wait on cement; attempt to test squeeze with Halliburton truck, pumped 2 barrels of fluid, pressured up to 1,500 psi, attempted to pull stinger free, had 6' of movement then pipe stuck; rig down Halliburton & picked up kelly, pressured up to 2,500 & worked pipe, has 5' of movement, pulled 120K over string weight - no success, worked pipe & wait on free point tools; ran wireline free point, tagged cement @ 9,175', picked back up to 9,145', found pipe free @ 9,160', trip out free point tools, load back off shot, trip in to 9,084' & backed off drill pipe, trip out wireline & rig down; rig up & reverse circulate drill pipe, found 28 barrels black oily filmed fine silty gassy fluid without muck cement in it; trip out - SLM, to lay down backed off joint; make up BHA & trip in to 9,084'; work down & screw into drill pipe; jar on fish - no movement; rig up wireline & back off tools
- Day 61**      6/20/93 - Finish rigging up wireline & back off drill pipe @ 9,115', pull out & rig down back off tools; pick up jarring assembly; trip in & screw into drill pipe fish with intentions of running coiled tubing to drill out cement in pipe; set off front end of drilling rig to make room for coil tubing unit; rig up coil tubing & test BOPs, run in 2.3" bit on coiled tubing to 9,115'; drill out drill pipe, tag fill @ 9,350', drilled to 9,450', pressure increased, pulled out coil tubing to check bit (found mineral fibers, walnut hulls, sand & 20% cement); change coil tubing mud motor & bit; trip in coiled tubing & wash to 9,450'; drill out cement in drill pipe 9,450'-9,465'
- Day 62**      6/21/93 - Drill out drill pipe with coil tubing 9,465'-9,475', pressure increasing & drill rate decreasing, trip out to check bit & mud motor; change out mud motor & bit, trip in; drill cement 9,475'-9,555', recovering 80% cement; trip out coil tubing to change mud motor & bit, trip back in; drill cement 9,555'-9,557'
- Day 63**      6/22/93 - Drill out cement in drill pipe 9,557'-9,631', tagged cross over sub above stinger, circulated for 20 minutes, short trip coil tubing - no fill, circulated 20 minutes, pull out coil tubing & blow tubing clean with nitrogen, rig down Halliburton; set front of drilling rig back up; rig up wireline free point tools & found drill pipe stuck @ 9,223'-50'; 50% free @ 9,183'-9,200', pull out wireline & loaded up for back off shot, attempted back off - no success, trip out wireline & redress back off shot, trip in & backed off @ 9,164', rig down wireline; circulated bottoms up - found "sand dark silty substance like mica, and very little

cement, some mineral fiber also"; trip out drill pipe to pick up wash pipe assembly

Day 64

6/23/93 - Finish trip out for wash pipe assembly; slip & cut drilling line; pick up wash pipe assembly; trip in & wash over drill pipe fish; while washing over drill pipe lost 46K weight, calculated twist off @ 6,380'; trip out, found drill pipe twisted off on the 58th stand & a double; pick up fishing tools (overshot assembly with grapple), trip in & latch on to fish; trip out with fish & laid down same; trip in to continue wash over drill pipe to 9,164'; wash over drill pipe 9,164'-9,208', circulated bottoms up with high viscosity pill; attempted to wash over more drill pipe, encountering torque, no progress; pull out of hole to check wash over shoe, found 7 joints drill pipe & wash over assembly left in hole; wait on spear

Day 65

6/24/93 - Lay down 3 joints wash pipe; pick up spear & grapple, trip in to top of fish; work spear into fish, pipe doesn't appear stuck; trip out with fish - recover complete fish, laid down 5 joints of wash pipe & wash over shoe (several joints of wash pipe had deep grooves in the tube area, washover shoe was flared & split), picked up 5 new joints wash pipe; trip in washover assembly to 9,164' (top of first tool joint on fish); wash 9,164'-9,200', ream 9,200'-9,208', pick up work pipe free to bottom; attempt to drill shoe, excessive torque, tried various weight combinations, still stalled rotary, pumped sweep - no excessive metal noted; trip out to check shoe, found shoe split & no cutting structure remained; pick up new milling shoe & trip in to 9,164'; kelly up to wash to bottom

Day 66

6/25/93 - Wash over drill pipe; trip out wash over assembly; wait on orders; Sunburst geologist & mudloggers rigged down & released

## LITHOLOGY

Samples were caught lagged to proper depth by the Sunburst Consulting mudloggers at 10' intervals from 10,000' [mill out of 7" casing] to 12,118' & 11,171' [total depths original & sidetrack holes]. Additional samples were caught from drilling breaks and all zones of interest by the mudloggers under the supervision of the wellsite geologist. Sample quality varied from poor to good depending on hole conditions and the drilling mud properties. During some portions of the well, when production water was used as the drilling fluid or friction reducers were added to the mud, there were no representative samples recovered.

The samples were examined wet and dry under a binocular microscope, and "cut" for hydrocarbons using 1-1-1 tri-chloro-ethane.

Visual porosity estimates use the following ranges: trace < 6%, poor 6 - 10%, fair 10 - 15%, good > 15% .

The log tops or drill time markers (with TVD and subsea values) have been inserted near the sample tops, within the sample descriptions below, for reference. The sample descriptions begin at 10,000' in the Twin Creek Formation.

- |               |  |
|---------------|--|
| 10000 - 10020 | <u>Limestone</u> : medium gray, very fine to microcrystalline, moderately hard, no fluorescence, no cut, no porosity<br><u>Cement</u> : [15%]<br><u>Iron</u> : [5%]  |
| 10020 - 10030 | <u>Limestone</u> : medium gray, as above<br><u>Cement</u> : [20%]<br><u>Iron</u> : [5%]  |
| 10030 - 10040 | <u>Limestone</u> : medium gray, very fine to micro crystalline, as above<br><u>Cement</u> : [10%]<br><u>Iron</u> : [trace]   |
| 10040 - 10050 | <u>Limestone</u> : medium to light gray, very fine to micro crystalline, bentonitic in part with traces of mica, trace fine pyrite, moderately hard to soft, no fluorescence, no cut, no visible porosity, trace fragments with clear to white vein calcite (fracture fill ?)<br><u>Bentonite</u> : light green gray, micaceous, soft to moderately hard, waxy, calcareous, grading to bentonitic limestone [5%] |
| 10050 - 10060 | <u>Limestone</u> : medium to light gray, as above<br><u>Cement</u> : [30%]<br><u>Bentonite</u> : light green gray, light gray, as above  |
| 10060 - 10070 | <u>Limestone</u> : light to medium gray, fine to very fine crystalline, silty, bentonitic in part, chalky in part, calcite, mineral fluorescence, no cut, trace interparticle porosity<br><u>Cement</u> : [25%]  |

10070 - 10080      Limestone: light to medium gray, fine to very fine crystalline, as above, increased bentonitic with mica, increased clear to white vein fill calcite  
Bentonite: light gray, light green gray, as above, increased mica [10%]

10080 - 10090      Limestone: light gray, fine grained, silty, micaceous in part, moderately hard to soft, dull mineral fluorescence, no cut, trace interparticle porosity, trace pelletal, occasional clear to white vein filling calcite

10090 - 10100      Limestone: light gray, fine crystalline, silty, as above, increased vein fill calcite

10100 - 10106      Limestone: light to medium gray, fine to very fine crystalline, silty in part, moderately hard to soft, no fluorescence, no cut, trace interparticle porosity, micaceous in part

#### Sidetrack #1

10050 - 10060      Limestone: medium gray, very fine to microcrystalline, moderately hard, no fluorescence, no cut, no visible porosity

10060 - 10070      Limestone: medium to light gray, as above, occasionally bentonitic  
Bentonite: light gray, waxy, soft to moderately hard [2%]

10070 - 10080      Limestone: medium to light gray, as above, occasional clear to white vein calcite

10080 - 10090      Limestone: light to medium gray, fine to very fine crystalline, silty in part, bentonitic in part, occasional micaceous, moderately hard to soft, dull mineral fluorescence, no cut, trace interparticle porosity, trace vein calcite as above  
Bentonite: light gray, light green gray, micaceous, as above [5%]

10090 - 10100      Limestone: light to medium gray, as above, increasingly silty  
Bentonite: light gray, light green gray, as above [5%]

10100 - 10110      Limestone: light to medium gray, as above, decreasing silty & bentonitic  
Bentonite: light gray, light green gray, as above [5%]

10110 - 10140      Limestone: light to medium gray, fine to very fine crystalline, silty in part, occasional bentonitic, moderately hard, no fluorescence, no cut, no visible porosity, micaceous in part

#### Leeds Creek member MD 10,136' TVD 10,128' (-3383')

10140 - 10160      Limestone: medium to light gray, very fine to fine crystalline, occasionally silty, trace mineral fluorescence in silty; moderately hard, no fluorescence, no cut, no porosity

10160 - 10170      Limestone: medium to light gray, as above, increasingly argillaceous

10170 - 10180      Limestone: medium to occasional light gray, as above, decreasing argillaceous, trace white to clear vein calcite

- 10180 - 10190      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no porosity  
Shale: apple green, non-calcareous, soft to moderately hard, blocky to sub-fissile, waxy in part [5%]
- 10190 - 10210      Limestone: medium to light gray, fine to very fine crystalline, silty, moderately hard to soft, no fluorescence, no cut, trace interparticle porosity, occasional fragmental & pelletal  
Shale: apple green, as above [2%]
- 10210 - 10220      Limestone: medium to light gray, very fine to fine crystalline, occasionally silty, soft to moderately hard, no fluorescence, no cut, no visible porosity, with clear to white vein calcite as above  
Shale: apple green, as above [2%]  
Siltstone: red brown, chalky, slightly calcareous, blocky, soft [1%]
- 10220 - 10230      Limestone: light to medium gray, as above, increased silty  
Shale: apple green, as above [5%]  
Siltstone: medium to light red brown, as above [5%]
- 10230 - 10240      Limestone: light to medium gray, fine to very fine crystalline, silty in part, occasional fragmental, moderately hard, no fluorescence, no cut, trace interparticle porosity  
Shale: apple green, as above [2%]  
Siltstone: light to medium red brown, as above [2%]
- 10240 - 10250      Limestone: medium to light gray, as above, decreasingly silty, increased clear to white vein calcite  
Shale: apple green, as above [trace]
- 10250 - 10260      Limestone: light to medium gray, fine to very fine crystalline, silty in part, abundant clear to white vein calcite  
Shale: apple green, as above [trace]
- 10260 - 10280      Limestone: light to medium gray, very fine crystalline, decreasing silty, increasingly chalky, soft to moderately hard, trace fine pyrite, no fluorescence, no cut, no visible porosity, trace clear to white vein calcite
- 10280 - 10290      Limestone: light to medium gray, as above, decreasing silty
- 10290 - 10300      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no porosity, trace fragmental, trace clear to white vein calcite
- 10300 - 10310      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, silty in part, moderately hard, no fluorescence, no cut, trace interparticle porosity, trace bentonitic

- 10310 - 10320      Limestone: light to medium gray, very fine crystalline, slightly to moderately argillaceous, chalky in part, soft to moderately hard, no fluorescence, no cut, no porosity  
Shale: light green gray, bentonitic, soft, trace mica [10%]
- 10320 - 10330      Limestone: light gray, as above  
Shale: light green gray, light gray, as above [5%]
- 10330 - 10350      Limestone: light gray, as above, increased silty, trace intergranular porosity  
Shale: light green gray, light gray, as above [trace]
- 10350 - 10360      Limestone: light gray, very fine crystalline, slightly argillaceous, occasionally silty, soft to moderately hard, no fluorescence, no cut, no porosity, chalky in part  
Shale: light green gray, light gray, as above [10%]
- 10360 - 10370      Limestone: light to occasional medium gray, as above, decreased chalky, trace clear to white vein fill calcite  
Shale: light green gray, light gray, as above [trace]
- 10370 - 10390      Limestone: light to medium gray, occasional gray brown, very fine crystalline, moderately hard to soft, decreasing slightly argillaceous, chalky in part, trace white calcite, mineral fluorescence, no cut, trace clear to white vein calcite
- 10390 - 10400      Limestone: medium to light gray, very fine to microcrystalline, moderately hard, no fluorescence, no cut, no porosity, trace white vein calcite, chalky in part  
Shale: red brown, silty, slightly calcareous, soft to gummy, blocky [5%]
- 10400 - 10410      Limestone: light to medium gray, very fine crystalline, slightly argillaceous in part, occasional chalky, moderately hard to soft, no fluorescence, no cut, no visible porosity, occasional white to clear vein calcite, silty in part
- 10410 - 10420      Limestone: medium to light gray, very fine crystalline, as above, decreased argillaceous & silty
- 10420 - 1430      Limestone: light to medium gray, very fine to microcrystalline, light gray is soft and chalky, medium gray in moderately hard, no fluorescence, no cut, no porosity
- 10430 - 10440      Limestone: medium gray brown, light gray, micro to very fine crystalline, occasional pelletal, moderately hard, no fluorescence, no cut, no porosity, trace calcite, light gray is softer
- 10440 - 10450      Limestone: medium gray brown, light gray, as above
- 10450 - 10460      Limestone: medium gray brown, light gray, very fine to microcrystalline, moderately hard, trace fragmental, trace calcite, no fluorescence, no cut, trace intercrystalline porosity, occasional vein calcite, light gray is softer and chalky
- 10460 - 10470      Limestone: medium gray brown, light gray, as above, increased fine crystalline

- 10470 - 10480 Limestone: light to medium gray, fine to very fine crystalline, silty in part, granular, moderately hard, no fluorescence, no cut, trace interparticle porosity, trace vein calcite
- 10480 - 10490 Limestone: medium to light gray, as above, decreased silty, occasional microcrystalline, occasional chalky
- 10490 - 10500 Limestone: medium to light gray, very fine to microcrystalline, moderately hard, occasional silty, no fluorescence, no cut, no visible porosity, trace white vein calcite
- 10500 - 10520 Limestone: medium to light gray, very fine to microcrystalline, as above, decreasingly silty, increased chalky
- 10520 - 10530 Limestone: medium to light gray, micro to very fine crystalline, moderately hard, no fluorescence, no cut, no porosity, fringing euhedral calcite crystals in part
- 10530 - 10540 Limestone: light to medium gray, very fine to microcrystalline, moderately hard to soft, increasingly light gray soft and chalky, no fluorescence, no cut, no visible porosity, decreasing calcite, increased slightly silty/granular
- 10540 - 10550 Limestone: light to medium gray, very fine to microcrystalline, as above, decreasing silty
- 10550 - 10580 Limestone: medium to light gray, micro to very fine crystalline, light gray is chalky, moderately hard to soft, no fluorescence, no cut, no porosity, trace crystal molds after bladed gypsum/anhydrite
- 10580 - 10600 Limestone: light to medium gray, micro to very fine crystalline, as above, white to clear vein calcite

Watton Canyon member MD 10,591' TVD 10,429' (-3684')

- 10600 - 10620 Limestone: light to medium gray brown, micro to very fine crystalline, as above, fringing calcite crystals in part
- 10620 - 10650 Limestone: light to medium gray brown, microcrystalline, moderately hard, no fluorescence, no cut, no porosity, calcite crystals
- 10640 - 10650 Limestone: light gray, medium gray brown, micro to very fine crystalline, moderately hard, light gray is chalky; no fluorescence, no cut, no porosity
- 10650 - 10670 Added graphite to mud system & bypassed shaker - no sample
- 10670 - 10690 Limestone: medium gray brown, light gray, very fine to microcrystalline, moderately hard, light gray is chalky; trace vein calcite, no fluorescence, no cut, no visible porosity, trace fragmental
- 10690 - 10700 Limestone: medium gray brown, light gray, micro to very fine crystalline, as above, slightly argillaceous in part

- 10700 - 10710      Limestone: light to medium gray brown, light gray, micro to very fine crystalline, light gray is chalky, moderately hard to soft, no fluorescence, no cut, trace very fine pyrite
- 10710 - 10740      Limestone: light to medium gray brown, light gray, as above, trace calcite  
Graphite: [50%]
- 10740 - 10750      Limestone: light to occasional medium gray brown, light gray, as above, trace clear to white calcite vein fill  
Graphite: [40%]
- 10750 - 10760      Limestone: light to occasional medium gray brown, light gray, micro to very fine crystalline, light gray is chalky, moderately hard, trace calcite, no fluorescence, no cut, no visible porosity
- 10760 - 10770      Limestone: medium to light gray brown, occasional light gray, as above, trace fine pyrite, increased calcite, occasional euhedral crystal terminations on calcite fringes
- 10770 - 10780      Limestone: medium to light gray brown, occasional light gray, as above, trace fragmental
- 10780 - 10800      Limestone: medium to light gray brown, occasional light gray, as above, trace vein calcite, some euhedral crystal terminations
- 10800 - 10810      Limestone: medium gray brown, light gray, micro to very fine crystalline, light gray is chalky, moderately hard to soft, no fluorescence, no cut, no porosity
- 10810 - 10820      Limestone: medium gray brown, light gray, micro to very fine crystalline, as above
- 10820 - 10830      Limestone: medium gray brown, light gray, as above, increased light gray & chalky; occasional white to clear vein fill calcite, trace pelletal
- 10830 - 10840      Limestone: medium gray brown, light gray, as above, occasional pelletal, increased vein calcite, oolitic in part, trace stylolites
- 10840 - 10860      Limestone: light to medium gray brown, light gray, very fine crystalline, oolitic, moderately hard, mineral fluorescence, no cut, trace interparticle porosity & intraparticle solution porosity
- 10860 - 10880      Limestone: medium to light gray brown, very fine to microcrystalline, moderately hard, occasional clear to white vein calcite & euhedral calcite crystal fringes, no fluorescence, no cut, trace interparticle porosity, predominately tight
- 10880 - 10890      Limestone: light to medium gray, light to medium gray brown, very fine to fine crystalline, silty in part, moderately hard, chalky in part, dull mineral fluorescence, no cut, trace intercrystalline porosity, granular
- 10890 - 10900      Limestone: light to medium gray, light to medium gray brown, fine to very fine crystalline, silty, as above, trace vein calcite with stylolites

- 10900 - 10910 Limestone: light gray, light to medium gray brown, fine to very fine crystalline, silty, granular, moderately hard to soft & friable, dull green fluorescence in part, slow streaming cut to ring cut in part, poor to trace intergranular porosity, trace white to clear vein calcite
- 10910 - 10920 Limestone: light to medium gray, fine crystalline, silty, as above, dull green fluorescence, no cut, trace to poor intergranular porosity
- 10920 - 10940 Limestone: medium to light gray, fine crystalline, silty, as above, chalky & anhydritic in part
- 10940 - 10950 Limestone: light to medium gray, very fine crystalline, silty, very fine mica in part, moderately hard, mineral fluorescence, no cut, trace interparticle porosity, chalky & anhydritic in part
- 10950 - 10960 Limestone: light gray, medium gray brown, fine to microcrystalline, silty in part, moderately hard, chalky in part, no fluorescence, no cut, no to trace interparticle porosity
- 10960 - 10970 Limestone: medium gray brown, light gray, very fine to microcrystalline, as above, decreased silty, increased microcrystalline, trace clear to white vein calcite
- 10970 - 11000 Limestone: medium to light gray brown, very fine to microcrystalline, moderately hard, no fluorescence, no cut, no visible porosity, trace vein calcite, trace stylolite
- 11000 - 11020 Limestone: medium to light gray brown, light gray, very fine to microcrystalline, as above, increased slightly silty, chalky in part, trace mica
- 11020 - 11040 Limestone: medium gray brown, light gray, micro to fine crystalline, trace silty, moderately hard, no fluorescence, no cut, trace interparticle porosity, trace vein calcite, trace stylolite stain on calcite
- 11040 - 11050 Limestone: medium gray brown, medium brown, light gray, as above, chalky & anhydritic in part, increased vein calcite & calcite fringing crystals, trace stylolites
- 11050 - 11070 Limestone: medium brown, light gray, micro to very fine crystalline, chalky in part, moderately hard, trace vein calcite, no fluorescence, no cut, no porosity
- 11070 - 11080 Limestone: medium brown, light gray, as above, increased chalky in light gray, occasional vein calcite
- 11080 - 11100 Limestone: medium gray brown, light gray, very fine to microcrystalline, chalky in part, moderately hard, no fluorescence, no cut, no porosity
- 11100 - 11120 Limestone: medium gray brown, medium brown, very fine to microcrystalline, as above, trace euhedral calcite fringing crystals
- 11120 - 11130 Limestone: medium gray brown, medium to light gray, very fine to fine crystalline, occasional silty, moderately hard, no fluorescence, no cut, trace interparticle porosity, clear to white vein calcite

- 11130 - 11150      Limestone: medium to light gray, medium gray brown, as above, increased medium gray silty, slightly argillaceous
- 11150 - 11170      Limestone: medium gray, very fine crystalline, slightly to moderately argillaceous, moderately hard to soft, no fluorescence, no cut, no porosity
- 11170 - 11190      Limestone: medium gray, light gray, as above, silty in part  
Shale: apple green, waxy, soft to moderately hard, sub-fissile to blocky [5%]
- 11190 - 11200      Limestone: light to medium brown, light to medium gray, very fine to microcrystalline, moderately hard, no fluorescence, no cut, no porosity, clear to white vein calcite, occasional silty, trace fragmental  
Shale: apple green, as above [2%]
- 11200 - 11210      Limestone: light to medium brown, light to medium gray brown, as above, silty in part, trace mica  
Shale: apple green, as above [1%]
- 11210 - 11220      Limestone: light to medium brown, light gray, as above, micro to very fine crystalline
- 11220 - 11250      Limestone: medium gray, light gray, very fine crystalline, slightly argillaceous, silty in part, moderately hard, no fluorescence, no cut, no visible porosity, trace calcite, trace stylolites  
Shale: apple green, as above [5%]
- 11250 - 11280      Limestone: medium gray, light gray, as above, trace fragmental, clear to white vein calcite  
Shale: apple green, as above [2%]
- 11280 - 11290      Limestone: medium gray, light gray, medium brown, very fine to microcrystalline, as above, decreasingly silty
- 11290 - 11300      Limestone: medium gray, light gray, medium brown, as above  
Shale: apple green, as above [5%]  
Graphite: [30%]
- 11300 - 11330      Limestone: medium to light gray, medium brown, very fine to microcrystalline, as above, clear to white vein calcite  
Shale: apple green, as above [2%]  
Graphite: [10%]
- 11330 - 11340      Limestone: medium brown, micro crystalline, as above  
Graphite: [80%]
- 11340 - 11350      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no porosity, clear to white vein calcite  
Shale: apple green, as above [2%]

- 11350 - 11370      Limestone: medium brown, medium gray, as above  
Graphite: [75%]
- 11370 - 11390      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, moderately hard, as above, trace pelletal
- 11390 - 11400      Limestone: light to medium brown, medium gray, micro to very fine crystalline, moderately hard, no fluorescence, no cut, no visible porosity, trace vein calcite
- 11400 - 11450      Limestone: light brown, micro to very fine crystalline, as above (very fine rock flour)  
Very poor sample - possibly not representative
- 11450 - 11500      Limestone: light brown, as above  
Very poor sample - possibly not representative
- 11500 - 11510      Limestone: light brown, light gray, micro to very fine crystalline, moderately hard, no fluorescence, no cut, no visible porosity
- 11510 - 11530      Limestone: medium to light gray, light brown, very fine to microcrystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no porosity
- 11530 - 11550      Limestone: medium gray brown, medium gray, very fine to microcrystalline, as above, clear to white vein calcite
- 11550 - 11580      Limestone: medium brown, microcrystalline, moderately hard, no fluorescence, no cut, no porosity, trace pelletal/fragmental
- 11580 - 11600      Limestone: medium brown, medium gray, microcrystalline, as above, trace vein calcite

Top target zone MD 11,609' TVD 10,434' (-3689')

- 11600 - 11650      Limestone: medium brown, medium gray brown, micro to very fine crystalline, moderately hard, no fluorescence, no cut, no visible porosity  
Shale: apple green, bentonitic, trace mica, soft to moderately hard, blocky to sub-fissile [1%]
- 11650 - 11670      Limestone: medium brown, medium gray brown, as above  
Shale: apple green, as above [1%]
- 11670 - 11680      No sample to recover
- 11680 - 11690      Limestone: medium gray, medium brown, very fine to microcrystalline, slightly argillaceous, moderately hard, no fluorescence, no cut, no visible porosity
- 11690 - 11700      Limestone: medium gray, medium brown, as above  
Shale: apple green, as above [2%]

- 11700 - 11720      Limestone: light to medium brown, micro to very fine crystalline, oolitic, sparry & micritic cement, moderately hard, trace clear calcite, dull green fluorescence, trace slow streaming to ring cut, trace interparticle porosity, predominately tight appearance, trace anhydrite
- 11720 - 11730      Limestone: medium to light brown, micro to very fine crystalline, as above, decreasing oolitic, trace ring cut
- 11730 - 11740      Limestone: light brown, micro to very fine crystalline, very fine rock flour, probably not representative
- 11740 - 11750      No sample to recover
- 11750 - 11770      Limestone: light to medium brown, light gray, micro to very fine crystalline, oolitic in part, trace calcite, dull green fluorescence in part, trace ring cut, trace interparticle porosity, trace clear to white vein calcite & euhedral crystal fringe
- 11770 - 11790      Limestone: light brown, very fine rock flour, probably not representative

Top target zone MD 11,795' TVD 10,423' (-3678')

- 11790 - 11850      Limestone: light brown, as above, very poor samples, not representative
- 11850 - 11860      No sample to recover
- 11860 - 11870      Limestone: light brown, medium to light gray, very fine to microcrystalline, trace oolitic, moderately hard, trace calcite, dull green fluorescence in part, trace weak ring cut, trace interparticle porosity, predominately tight, trace clear to white vein calcite (poor sample quality, intermixed cuttings & cavings)
- 11870 - 11880      Limestone: medium to light gray, light brown, very fine to microcrystalline, moderately hard, slightly argillaceous, no fluorescence, no cut, no visible porosity, silty & bentonitic in part
- 11880 - 11890      Limestone: light brown, light to medium gray, very fine to microcrystalline, as above, silty & bentonitic, poor sample quality [very fine]
- 11890 - 11900      Limestone: light to medium gray, light brown, as above, oil on sample surface  
Bentonite: light gray, light green gray, waxy, soft, trace very fine mica, occasionally silty [5%]
- 11900 - 11930      Limestone: light gray, light brown, very fine to microcrystalline, moderately hard, silty & bentonitic in part, dull mineral fluorescence, no cut, no visible porosity  
Bentonite: light gray, light green gray, as above [5%]
- 11930 - 11940      Limestone: medium to light gray, light brown, slightly argillaceous, moderately hard, dull mineral fluorescence in part, no cut, no visible porosity, trace pelletal  
Bentonite: light gray, light green gray, off white, as above, increased silty, fine mica [10%]

- 11940 - 11950      Limestone: light to medium gray, light brown, as above, decreased silty  
Bentonite: light gray, off white, as above [5%]
- 11950 - 11960      Limestone: light to medium gray, light brown, as above, oil on sample surface  
Bentonite: light gray, off white, as above [5%]
- 11960 - 11980      Limestone: light to medium gray, light brown, as above, trace pelletal  
Bentonite: light gray, off white, light green gray, as above [10%]
- 11980 - 12010      Limestone: light to occasional medium gray, very fine crystalline, silty in part,  
occasionally bentonitic, moderately hard to soft, mineral fluorescence in part, no  
cut, no visible porosity  
Bentonite: light gray, off white, as above [7%]
- 12010 - 12030      Very poor sample [rock flour]  
Limestone: light brown, light gray, very fine crystalline, no show
- 12030 - 12050      Limestone: medium to light gray, very fine crystalline, slightly argillaceous, silty  
in part, moderately hard, no fluorescence, no cut, no porosity  
Bentonite: light gray, off white, as above [5%]
- 12050 - 12100      Limestone: medium to light gray, very fine crystalline, as above  
Bentonite: light gray, off white, as above [2-5%]
- 12100 - 12118      Limestone: medium to light gray, medium gray brown, very fine to  
microcrystalline, slightly argillaceous in part, moderately hard, no fluorescence, no  
cut, no visible porosity, trace clear to white vein calcite  
Bentonite: light gray, off white, as above [2%]

**Multiple open hole sidetrack attempts - sample quality ranged from poor to none existent**

- 11544 - 11564      No samples
- 11615 - 11625      No samples
- 11544 - 11567      Limestone: medium to light gray, fine to microcrystalline, silty in part, bentonitic  
in part, moderately hard to soft, no fluorescence, no cut, no visible porosity, trace  
to clear vein calcite  
Bentonite: light gray, light green gray, waxy, micaceous, silty in part, soft to  
moderately hard [10%]
- 11724 - 11733      Limestone: medium to light gray, as above, trace pelletal, very fine to  
microcrystalline, decreasingly silty  
Bentonite: light gray, light green gray, as above [10%]
- 11632 - 11650      No sample

- 11650 - 11670      Limestone: medium to light gray, as above, slight trace pelletal, slight trace oolitic - light brown, microcrystalline  
Bentonite: light gray, light green gray, as above [5%]
- 11670 - 11680      Limestone: medium to light gray, light brown, very fine to microcrystalline, as above, increased oolitic with a trace of dull green fluorescence, trace weak streaming cut, trace interparticle porosity  
Bentonite: light gray, light green gray, as above [5%]
- 11676 - 11700      Limestone: medium to light gray, occasional light brown, as above, decreased oolitic  
Bentonite: light gray, light green gray, waxy, soft to moderately hard, micaceous in part, occasional silty [5%]
- 11700 - 11730      Limestone: medium to light gray, very occasional light brown, as above  
Bentonite: light gray, light green gray, as above [5%]
- 11730 - 11740      No sample
- 11740 - 11750      Limestone: medium to light gray, trace light brown, as above  
Bentonite: light gray, light green gray, as above [5%]
- 11552 - 11580      Limestone: medium to light gray, very fine crystalline, silty in part, bentonitic in part, slightly argillaceous, moderately hard, no fluorescence, no cut, no porosity  
Bentonite: light gray, off white, light green gray, waxy, non-calcareous, soft to moderately hard, silty in part, micaceous
- 11580 - 11590      No sample
- 11590 - 11600      Limestone: medium to light gray, as above  
Bentonite: light gray, off white, light green gray, as above [5%]
- 11600 - 11611      No sample
- 11545 - 11550      Limestone: medium to light gray, as above, trace very fine pyrite  
Bentonite: light gray, off white, light green gray, as above [5%]  
Shale: apple green, dolomitic to non-calcareous, moderately hard, blocky, bentonitic in part [2%]
- 11550 - 11570      Limestone: medium to light gray, as above  
Shale: apple green, as above [5%]  
Bentonite: light gray, light green gray, as above [2%]

Sidetrack #B

- 10442 - 10460      Limestone: light to medium gray, firm to soft, microcrystalline to cryptocrystalline, dense, occasionally chalky, slightly argillaceous, no fluorescence, no cut, no porosity

- 10460 - 10480      Limestone: light to medium gray, medium gray brown, very finely crystalline to microcrystalline, granular in part, occasionally silty
- 10480 - 10510      Limestone: light gray, cream, medium gray brown, firm, very finely crystalline to microcrystalline, as above
- 10510 - 10520      Limestone: medium to light gray, medium gray brown, firm to moderately hard, microcrystalline to very finely crystalline, dense, slightly argillaceous
- 10520 - 10530      Limestone: medium gray brown to brown, light gray, as above
- 10530 - 10550      Limestone: medium gray brown, light gray, firm to moderately hard, microcrystalline, dense, slightly argillaceous, no fluorescence, no cut, no porosity
- Watton Canyon member MD 10,574' TVD 10,436' (-3691')
- 10550 - 10610      No samples - shaker bypassed
- 10610 - 10640      Limestone: medium gray brown to brown, moderately hard, microcrystalline, dense, tight, slight to moderately argillaceous
- 10640 - 10650      Limestone: medium gray brown, medium brown, light gray, moderately hard to firm, microcrystalline to very finely crystalline, dense, granular in part  
Shale: apple green, firm, blocky, bentonitic in part (2%)
- 10650 - 10670      Limestone: medium gray brown, medium brown, moderately hard, microcrystalline, dense, slightly argillaceous, rare calcite veining
- 10670 - 10680      Limestone: medium gray brown, light gray, moderately hard to firm, microcrystalline, dense, occasionally slightly chalky, slightly argillaceous, no fluorescence, no cut, no porosity
- 10680 - 10700      Limestone: as above
- 10700 - 10740      Limestone: medium gray brown, light to medium gray, moderately hard, microcrystalline, dense, fragmental in part, slightly argillaceous, no fluorescence, no cut, no porosity
- 10740 - 10770      Limestone: medium gray brown, as above, some oolites, trace pellets, rare calcite veining
- 10770 - 10780      Limestone: tan, cream, firm, microcrystalline, trace oolites, chalky in part
- 10780 - 10800      Limestone: medium gray brown, medium brown, moderately hard, microcrystalline, dense, fragmental in part, slightly argillaceous, some light gray, granular, silty in part, no fluorescence, no cut, no porosity
- 10800 - 10820      Limestone: light gray brown, firm, very finely crystalline, granular in part, silty in part

- 10820 - 10840 Limestone: light gray, medium gray brown, firm, very finely to finely crystalline, granular in part, silty in part, trace intergranular porosity, no fluorescence, no cut
- 10840 - 10850 Limestone: medium gray brown, moderately hard, microcrystalline, dense, slightly argillaceous, some light gray, firm, very finely crystalline, granular in part
- 10850 - 10870 Limestone: medium gray brown, light gray, moderately hard to firm, microcrystalline to very finely crystalline, dense to occasionally chalky, slightly argillaceous in part
- 10870 - 10890 Limestone: light gray, medium gray brown, as above, rare calcite veining
- 10890 - 10900 Limestone: medium to light gray brown, firm to moderately hard, microcrystalline to very finely crystalline, slightly argillaceous, silty in part
- 10900 - 10920 Limestone: medium to light gray brown, tan, light gray, moderately hard to firm, microcrystalline to very finely crystalline, dense, slightly argillaceous, silty in part
- 10920 - 10950 Limestone: medium to light gray brown to brown, moderately hard, microcrystalline, dense, clean to slightly argillaceous
- 10950 - 10980 Limestone: light gray brown to brown, moderately hard, microcrystalline, dense, slightly argillaceous, silty in part, weak yellow residual cut (dry), no fluorescence, no porosity
- 10980 - 11000 Limestone: light gray brown to brown, moderately hard, microcrystalline, dense, slightly argillaceous, trace weak yellow residual cut (dry), no fluorescence, no porosity
- 11000 - 11030 Limestone: as above, some light gray, chalky
- 11030 - 11060 Limestone: medium to light gray brown to brown, moderately hard, microcrystalline, dense to fragmental, some light gray, firm, chalky, no fluorescence, no porosity, trace weak yellow residual cut (dry)
- 11060 - 11070 Very poor sample  
Limestone: light gray, firm, very fine to microcrystalline, granular in part, chalky in part, occasionally silty, no fluorescence, no cut, no visible porosity
- 11070 - 11130 No samples - shakers bypassed to keep lubricants in mud system
- 11130 - 11150 Limestone: medium to light gray brown, very fine crystalline, moderately hard, slightly argillaceous, occasionally silty & bentonitic, no fluorescence, no cut, no visible porosity
- 11150 - 11160 No representative samples - glass & plastic beads in use, shaker bypassed

11160 - 11171

Limestone: medium to light gray, very fine to microcrystalline, slight trace pelletal, slightly argillaceous, moderately hard, no fluorescence, no cut, no visible porosity, occasional silty & bentonitic, very slight trace pyrite  
Very poor sample quality

Attempted plug back for open hole sidetrack

FROM JOY

PLEASE JUST MAIL THE ATTACHED AS INDICATE

*No entries*

EXPRESS MAIL

POSTAL MAIL

WELL NAME: *Alhorn UPR 19-2*

SUBMITTAL: *Geo Report*

STATE OF COLORADO  
OIL & GAS CONSERVATION COMMISSION  
LOGAN TOWER BLDG., SUITE 380  
1580 LOGAN STREET  
DENVER, COLORADO 80203-2281  
303/894-2100  
303/894-2109 (FAX)

NORTH DAKOTA INDUSTRIAL COMMISSION  
600 EAST BLVD. (MAILING ADDRESS)  
1022 E. DIVIDE AVE. (STREET ADDRESS)  
BISMARCK, NORTH DAKOTA 58505-0840  
701/224-2969  
701/224-3682 (FAX)

KANSAS CORPORATION COMMISSION  
200 COLORADO DERBY BLDG.  
202 W. FIRST STREET  
WICHITA, KS 67202-1286  
316/263-3238  
316/263-6927 (FAX)

OKLAHOMA CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
2101 N. LINCOLN BLVD.  
OKLAHOMA CITY, OK 73105-4993  
405/521-2211  
405/521-6045 (FAX)

STATE OF MONTANA  
BOARD OF OIL & GAS CONSERVATION  
2535 ST. JOHNS AVENUE  
BILLINGS, MONTANA 59102  
406/656-0040  
406/657-1604 (FAX)

UTAH DEPT. OF NATURAL RESOURCES  
DIV. OF OIL, GAS & MINING  
355 N. TEMPLE - 3 TRIAD CENTER  
SUITE 350  
SALT LAKE CITY, UTAH 84180  
801/538-5340  
801/359-3940 (FAX)

*FRAN K MATTHEWS*

NEW MEXICO OIL CONSERVATION COMM.  
DISTRICT I  
1000 W. BROADWAY  
P. O. BOX 1980  
HOBBS, NM 88241-1980  
505/393-6161  
505/393-0720 (FAX)

STATE OF WYOMING  
OIL & GAS CONSERVATION COMMISSION  
777 W. FIRST ST. (STREET ADDRESS) 82601  
P. O. BOX 2640 (MAIL ADDRESS) 82602  
CASPER, WYOMING  
307/234-7147  
307/234-5306 (FAX)

NEW MEXICO OIL CONSERVATION COMM.  
DISTRICT II  
811 S. FIRST  
P. O. DRAWER DD  
ARTESIA, NM 88210  
505/748-1283  
505/748-9720 (FAX)

*MUD LOG FILED WITH OTHER LOGS*

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g:StMail.wkt rev 7-22-92

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JUL 14 1993

DIVISION OF  
OIL GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:  
UPRR - Land Grant

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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

7. Unit Agreement Name:

1. Type of Well: OIL  GAS  OTHER:

RECEIVED

8. Well Name and Number:  
Elkhorn UPRR 19-2

2. Name of Operator:  
UNION PACIFIC RESOURCES COMPANY

JUL 13 1993

9. API Well Number:  
43-043-30068

3. Address and Telephone Number:  
P.O. BOX 7, Fort Worth, Texas 761001 817/877-DIVISION OF OIL GAS & MINING

10. Field and Pool, or Wildcat:  
Watton Canyon

4. Location of Well  
Footages: 1980' FNL & 660' FWL (SL)  
1770' FNL & 1530' FEL (BHL)  
QQ, Sec., T., R., M.: Sec. 19-2N-7E

County: Summit  
State: Utah

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

NOTICE OF INTENT  
(Submit in Duplicate)

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

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

SUBSEQUENT REPORT  
(Submit Original Form Only)

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

Date of work completion 6/26/93

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

\* Must be accompanied by a cement verification report.

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

1st plug: set EZSV at 8994'. Test plug to 1000 psi, Pump 100 SXS Class "H" + 0.3% CFR-3, 17.2 ppg, .96 yield TOC= 8520'.

2nd plug: 100 SXS Class "H", .96 yield, 17.2 ppg. Balance plug 3714'-3264'.

3rd plug: RIH to 2000'. Shot 2 SPF, 2000-2002'. POOH w/wireline. PU Halliburton EZSV tool. RIH shut piperams. Pump into perfs to be sure to circulate through perfs. Set EZSV tool at 1705'. Sting into retainer. Pump 80 SXS. Halco Lite + 3% salt, 12.5 ppg., 1.90 yield. 300' cement inside 7" casing, 500' between 7" & 9-5/8" casing.

If further information is needed, please contact Joy Rector at 817/877-7956.

13. Name & Signature: Cami Minzenmayer /Minzenmayer Title: Regulatory Analyst Date: 7/7/93

(This space for State use only)

## UPRR 1-H ELKHORN 19-2

The Elkhorn 19-2 in Summit County, Utah was reentered 04-20-93 for purposes of drilling a horizontal hole in the Watton Canyon member of the Twin Creek formation. The well was successfully sidetracked and a 2000' lateral was drilled which partially penetrated the target zone.

Hole problems required that the sidetracked hole be plugged back and that the well be redrilled as an additional sidetrack. During the plugging operation 400' of drillpipe was cemented in the casing; fishing activities have been unsuccessful. It appears that a portion of the 7" production casing that was set through a massive salt section above the target is pinched/collapsed and that future work will be expensive with poor chances of success. It is recommended that operations be suspended and that the well be abandoned.



DATE 07/13/93

PRODUCTION INQUIRY SCREEN

MENU: OPTION 00

TWNSHP RANGE SC SPOT MD. API ZONE STATUS  
2.0 N 7.0 E 19 SWNW S 43-043-30068 TWNCR DRL  
OPERATOR: N9465 : UNION PACIFIC RESOURCES CO  
WELL NAME: 1H UPRR 19-2 (REENTRY)  
ENTITY: 99999 : DRILLING FILES

ACCT	ENTY	DAYS	OIL PROD	GAS PROD	WATER PROD	PERIOD
CUM THRU	12/31/91		4576.00	0.00	788.00	
N9465	2140	0	0.00	0.00	0.00	93-01
N9465	2140	0	0.00	0.00	0.00	93-02
N9465	2140	0	0.00	0.00	0.00	93-03
	YTD		0	0	0	

OPT: 13 API: 4304330068 ZONE: TWNCR PERIOD(YMM): 9300 ENTY: 0 ACCT:

## O I L G A S &amp; M I N I N G - E N T I T I E S

MENU: OPTION 00

ENTITY ACCT NUM PROP NMBR OR NAME

2140 N9465 UPRR 19-2  
850513 OPER FR N0040 EFF 4-1-85:

2145 N9465 STATE 4-8S  
850513 OPER FR N0040 EFF 4-1-85:

2150 N0200 PINEVIEW 4-7S  
850513 OPER FR N0040 EFF 4-1-85:

2155 N0200 NEWTON SHEEP 4-9S  
850513 OPER FR N0040 EFF 4-1-85:

2160 N9465 NEWTON SHEEP 4-6  
850513 OPER FR N0040 EFF 4-1-85:

2165 N9465 NEWTON SHEEP 4-5S  
850513 OPER FR N0040 EFF 4-1-85:

OPT: 32 API: 4304330068 ZONE: TWNCR DATE(YMM): 9300 ENT: 2140 ACCT:

DOUBLE JACK TESTING & SERVICES, INC.

PHONE (307) 789-9213

B.O.P. TEST REPORT

B.O.P. TEST PERFORMED ON (DATE) 4-23-93

OIL COMPANY UPRC

WELL NAME & NUMBER ELKHORN #1-H UPRC 19-2 43-043-30068

SECTION 19

TOWNSHIP 2 N

RANGE 7E

COUNTY & STATE SUMMIT, UTAH

DRILLING CONTRACTOR SST 56

OIL COMPANY SITE REPRESENTATIVE RICKY

RIG TOOL PUSHER DOC

TESTED OUT OF EVANSTON WY

NOTIFIED PRIOR TO TEST

COPIES OF THIS TEST REPORT SENT TO: UPRC

SST

BLM

STATE

ORIGINAL CHART & TEST REPORT ON FILE AT:

DOUBLE JACK TESTING & SERVICES, INC.  
P O BOX 2097  
EVANSTON, WY 82931-2097

TESTED BY: JOEL HAGSTROM, SHAWN

RECEIVED

AUG 05 1993

DIVISION OF  
OIL GAS & MINING

# Double Check Testing & Services Inc.

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390  
 Field Operations: Shoshoni, WY (307) 876-2308  
 Rock Springs, WY (307) 382-4020  
 Evansdale, WY (307) 789-9213  
 Vernal, UT (801) 781-0448  
 Durango, CO (303) 259-5926

FIELD TICKET  
10500

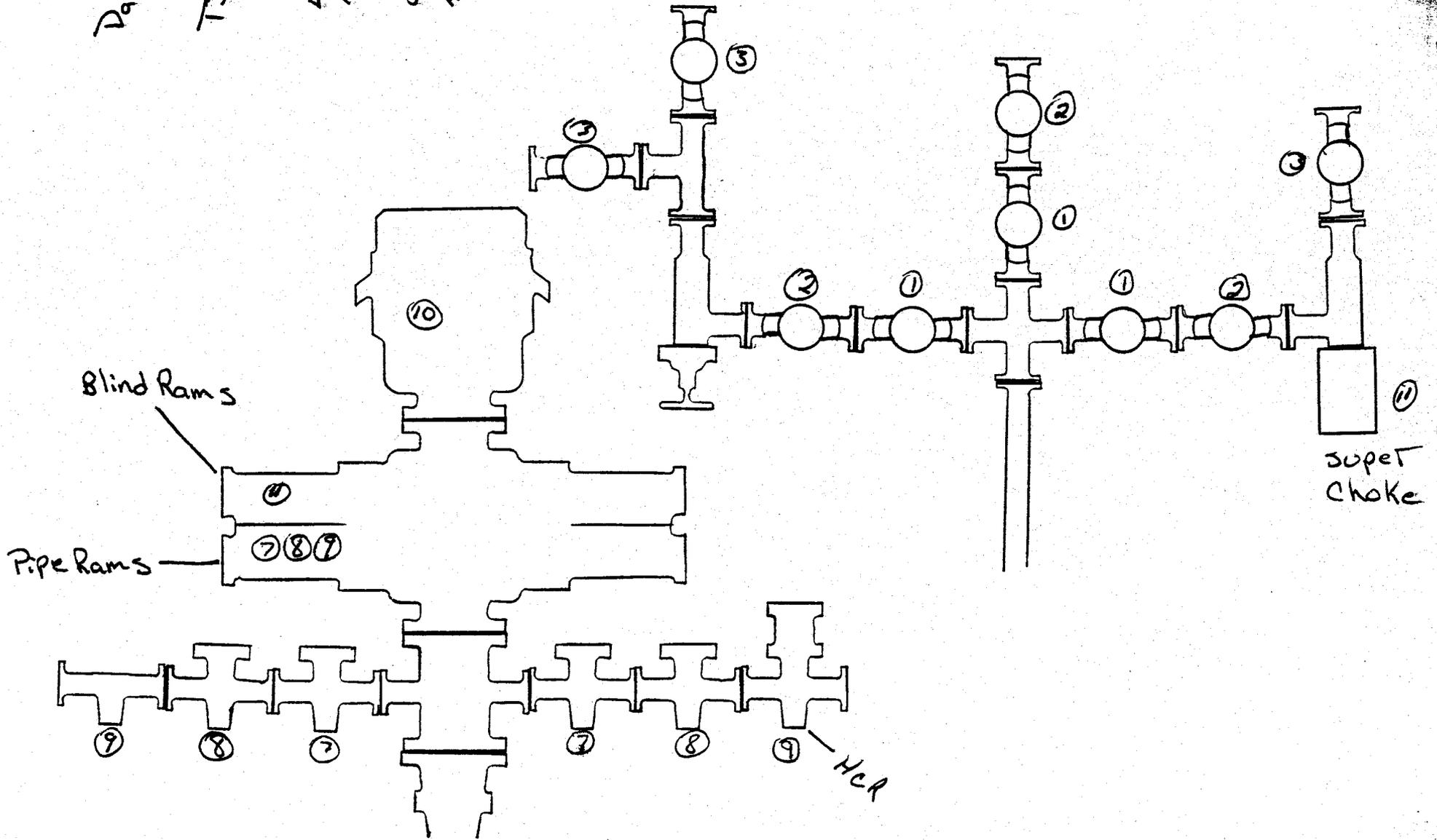
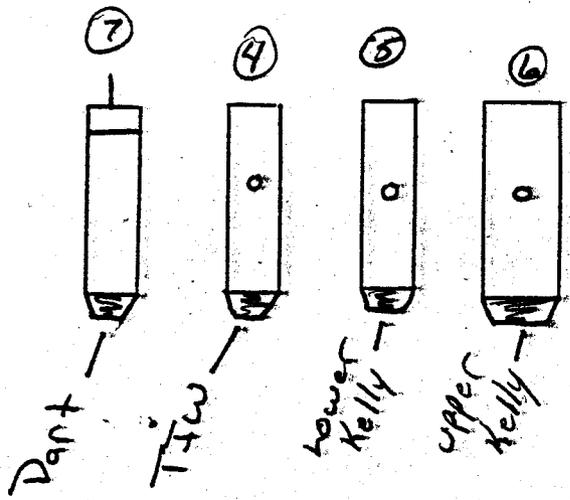
DATE 4-23-93  
 OPERATOR UPRC  
 RIG NAME & NO. 55T 56  
 WELL NAME & NO. ELK Horn #1-H  
UPRC 19-2  
 TOWNSHIP 2N RANGE 7E

COUNTY	STATE	SECTION	TOWNSHIP	RANGE	ITEMS TESTED	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES	COMMENTS
<u>Summit</u>	<u>Utah</u>	<u>19</u>	<u>2N</u>	<u>7E</u>	Top Pipe Rams	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	Closing Unit Psi <u>3000</u>
					Bottom Pipe Rams	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	Closing Time of Rams <u>6.5 sec.</u>
					Blind Rams	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	Closing Time of Annular <u>12 sec.</u>
					Annular B.O.P.	<u>250 psi</u>	<u>5 min.</u>	<u>2500 psi</u>	<u>10 min.</u>	Closed Casing Head Valve <u>yes</u>
					Choke Manifold	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	Set Wear Sleeve <u>yes</u>
					Choke Line	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Kill Line	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Super Choke	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Upper Kelly	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Lower Kelly	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Floor Valve	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Dart Valve	<u>250 psi</u>	<u>5 min.</u>	<u>5000 psi</u>	<u>10 min.</u>	
					Casing	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	

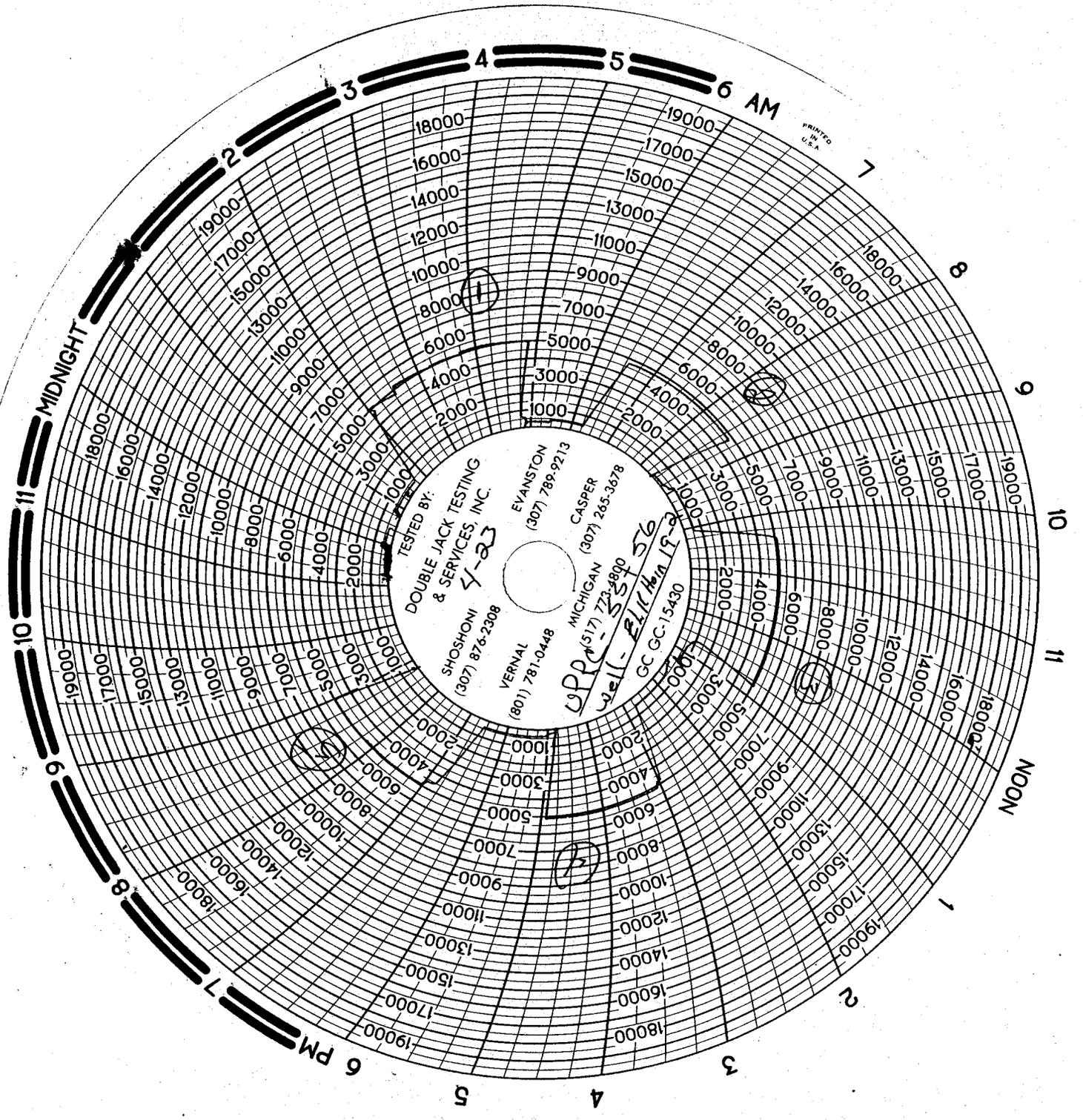
## ADDITIONAL TESTS & COMMENTS

TEST PLUG	<u>7/16 FMC</u>
RET. TOOL	<u>3/2 hole</u>
TOP SUB.	<u>3/2 hole</u>
KELLY SUB.	<u>3/2 hole</u>
X-OVER SUB.	





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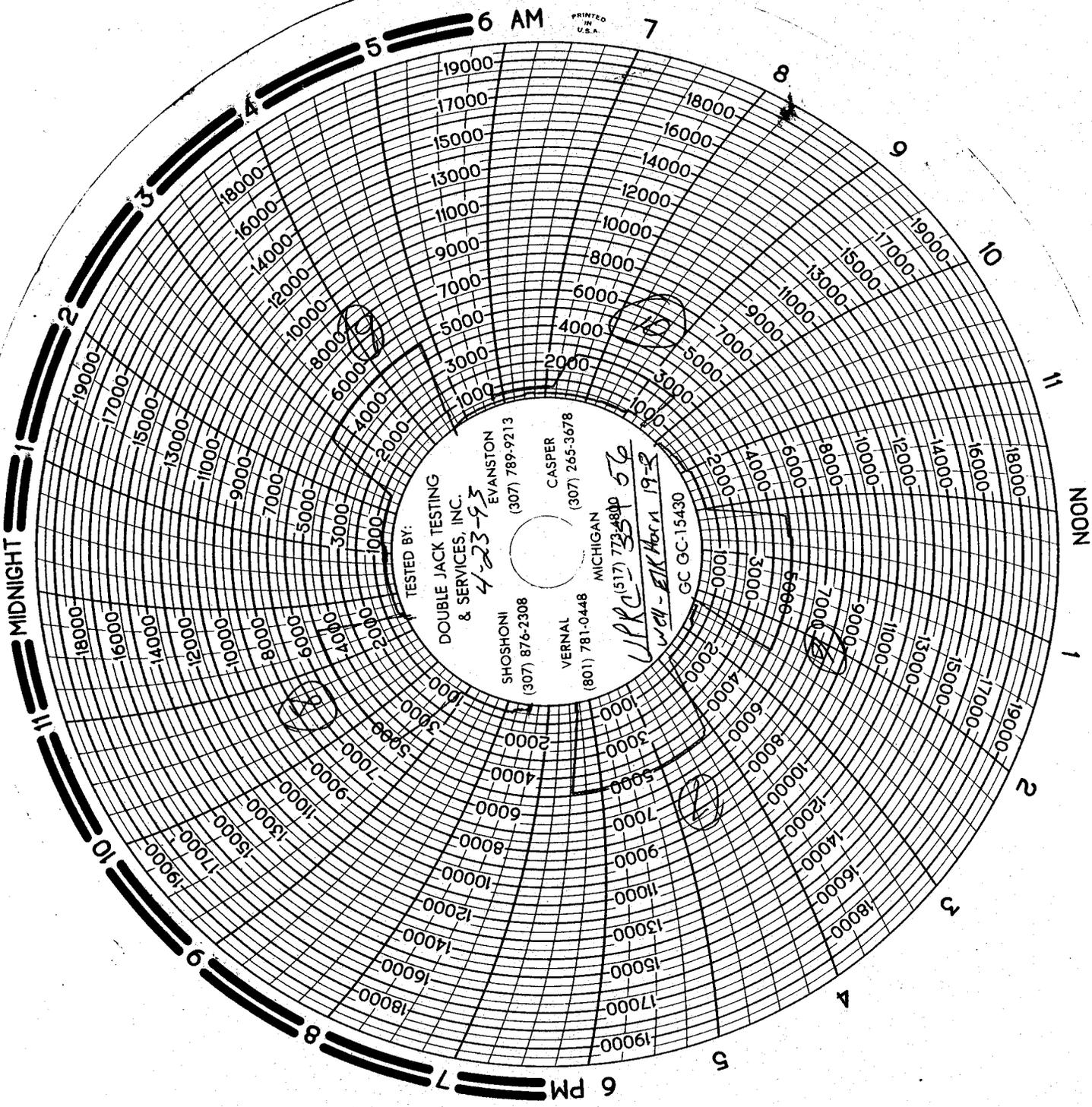
MIDNIGHT

6 AM

NOON

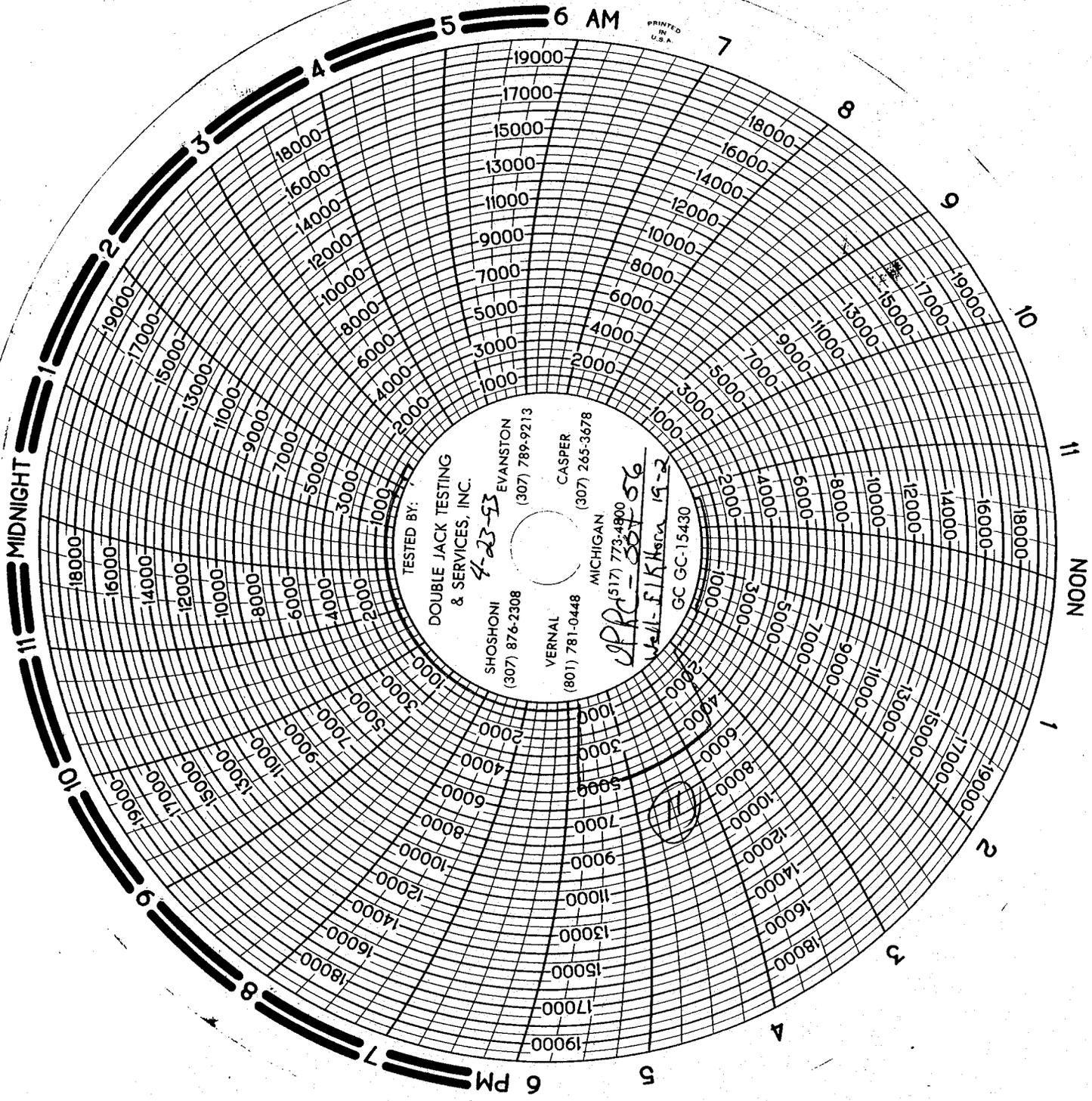
6 PM

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TESTED BY:  
 DOUBLE JACK TESTING  
 & SERVICES, INC.  
 4-23-93  
 EVANSTON  
 (307) 789-9213  
 SHOSHONI  
 (307) 876-2308  
 VERNAL  
 (801) 781-0448  
 CASPER  
 (307) 265-3678  
 MICHIGAN  
 (517) 723-8100  
 GC GC-15430  
 W-11 - Elk River 1992

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DOUBLE JACK TESTING  
& SERVICES, INC.

SHOSHONI (307) 876-2308 EVANSTON (307) 789-9213

VERNAL (801) 781-0448 CASPER (307) 265-3678

MICHIGAN

*UPR (517) 773-4800*

*WALL - FIK Heru 19-2*

GC GC-15430



# UNION PACIFIC RESOURCES

## #1 H. ELKHORN 12-19 (RE-ENTRY)

SHL: 660' FWL & 1980' FNL SEC 19-T2N-R7E  
PROPOSED BHL: 1530' FEL & 1770' FNL SEC 19-T2N-R7E  
SUMMIT COUNTY, UTAH  
AFE NO. 14674

### ORIGINAL WELL INFORMATION:

#### GENERAL WELL INFO:

KBE: 6736'  
GLE: 6721'  
API NO: 43-043-30068  
SPUD: 21:30 HRS 2-4-78  
RIG RELEASE: 20:00 HRS 6-10-78

#### FORMATION TOPS:

	<u>MD</u>	<u>TVD</u>
Base Salt	9568'	9559'
Twin Creek	9650	9641'
Leeds Creek	10120'	10111'
Watton Canyon	10486'	10476'
Sliderock	11000'	10989'
Gypsum Springs	11072'	11061'
Nugget	11117'	11106'
TD	11419'	11408'

#### DST #1: (10380-10595'MD)

IHP - 5840 PSI  
IFP - 1656 PSI  
FFP - 2092 PSI  
FSI - 4707 PSI @ 10360' (8.74 ppg)

#### DST #2: (10610'-10809'MD)

IHP - 6008 PSI  
IFP - 877 PSI  
FFP - 664 PSI  
FSI - 4320 PSI @ 10615' (7.83 ppg)

#### CASING:

SURFACE: 9-5/8" @ 1915' cement with 900sx HLC & 325sx Class "G"  
PRODUCTION: 7" @ 11419' cement with 750sx 50:50:4 POZ & 250sx 50:50:2 POZ

#### PRODUCTION CASING DETAILS:

7", 23#, S-95, LTC	1048' - SURFACE
7", 23#, N-80, LTC	6048' - 1048'
7", 23#, S-95, LTC	8785' - 6048'
7", 32#, S-95, LTC	11419' - 8785'

### RE-ENTRY PROCEDURE

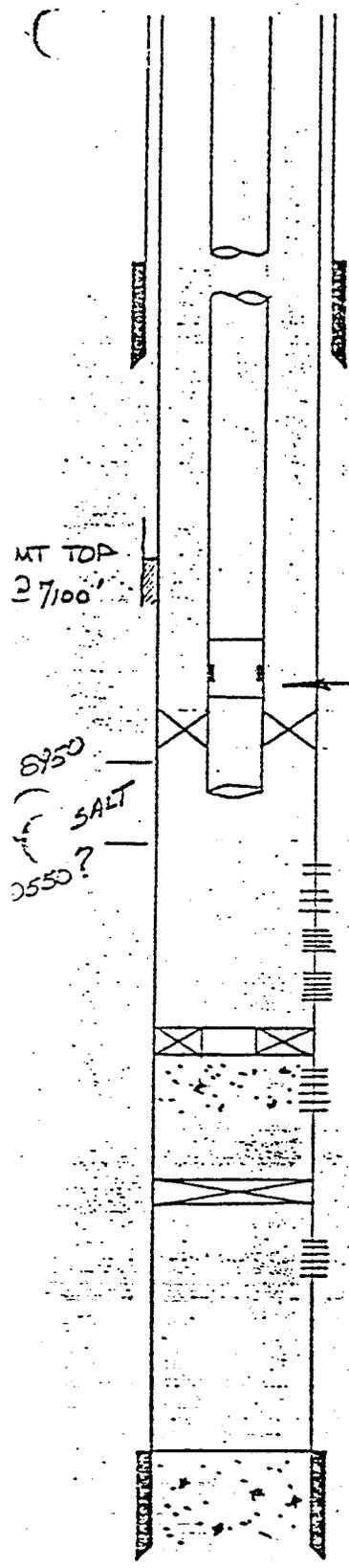
PROPOSED KOP: 10052' MD  
10042' TVD  
BUR: 12°/100  
AZIMUTH: N80°E (from tie in of old well path)  
TARGET: Lower Watton Canyon 10570'-10660'MD (10560'-10650'TVD) log correlation

- 1) Survey well for correct legal footages and GLE.
- 2) Prepare location and build 150'x120'x8' reserve pit. Dig flare pit & fresh H<sub>2</sub>O pits.
- 3) MIRURT, pump water to kill well. NU 7-1/16" x 5M double gate and annular BOP. Dress upper set of rams for 4" DP. Pressure test BOP & manifold to 5000 psi for 15 min. Pressure test annular to 2500 psi for 15 min. Pressure test inside BOP, upper and lower kelly valves to 5000 psi for 15 min. Use 3rd party testers for BOP test.
- 4) RU gas separator(s) rotating head, and oil skimming system.
- 5) Run 6" guage ring to 10100' MD. If 6" guage ring won't go, run 5.90" guage ring.
- 6) PU 7", 26#, anchor stock and starter mill on 4", 14#, S-135 DP. TIH and gyro orient anchor stock at 10042' TVD, to N80°E. Set anchor stock and begin to mill out casing window. TOH for window and watermelon mills as required. Run ditch magnets while milling. TOH.
- 7) PU 6" bit, angle build motor, GR-DIR-MWD and HWDP. TIH and build 12°/100' curve to 90°+ by 10520' TVD @ 500' vertical section in N80°E direction.
- 8) TOH for steerable MM and TIH continuing to drill lateral with fresh H<sub>2</sub>O. Projected BHL is 1770' FNL and 1530' FEL of Sec 19-T2N-R7E. Projected bed dip initially is 8° updip with a flattening expected to 4.5° by projected BHL. We will use GR correlation to maintain wellbore in the 90' thick target interval. If lost circulation is encountered, continue to drill monitoring hole conditions which LCM once wellbore is lateral.
- 9) At TD TOH & LDBHA. RU SWS to run FMS drillpipe conveyed log. TOH & LD SWS equipment.
- 10) RU & run 4-1/2", 11.6#, N-80, LTC perforated liner to TD with overlap 250' inside 7" casing. If necessary set Baker Model DB packer with pump out plug for well control. LDDP & NDBOP. RDMORT. Install bird net over reserve pit and fence same. Turn well over to production department for subsequent operations.

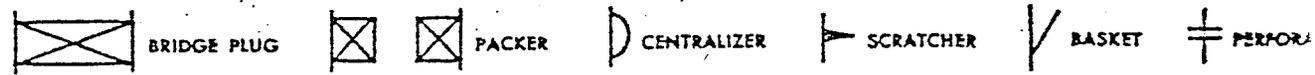
6/11/84 CDB

SERVING THE W D

DATE 3/29/79 WELL NO. 19-2 LEASE UPRR FIELD ELKHORN



9 5/8" K-55 36.6' 40# @ 1915	ELEV 6721
	KB 6736
<u>Rods</u>	
PUMP - 2 1/2" x 1 1/2" x 18' x 26" BHD	
98'	1" RODS - TOP 25 W/ SCRAPERS
121'	1/8" RODS
134'	3/4" RODS
132 Jts 2 1/8" 6.5" N-80 EUE BRD	
153 Jts 2 1/8" 6.5" N-80 CS - HYDRILL	
← 2.290" SN	
BAKER ANCHOR CATCHER @ 8922'	
<u>TWIN CREEK - LEEDS</u>	
1 PERF @ 10,138, 10,182, 10,191, 10,208, 10,260	
10,275, 10,291, 10,327, 10,338, 10,393, 10,394	
10,440 - 10,470 - 2 SPF - WATTON CANYON	
10,485 - 10,518 - 2 SPF	
CGR @ 10,540'	
10,570 - 10,660 - 1 SPF SQZD W/ 125SX	
CIBP @ 10,700'	
10,744 - 74 2 SPF - RICH	
PSTD 11,370'	
FC @ 11,370'	
<u>CASING 7" ALL LTC</u>	
60 Jts 32" S-95 SURF - 2606	
68 Jts 23" S-95 2606 - 5343	
122 Jts 23" N-80 5343 - 10,343	
26 Jts 23" S-95 10,343 - 11,419	



(Use reverse side for additional remarks & sketches)

SCIENTIFIC DRILLING INTERNATIONAL, INC.  
CASPER, WYOMING

UNION PACIFIC RESOURCES COMPANY

WELL NAME : #1-H ELKHORN 12-19 RE-ENTRY  
Location : SUMMIT COUNTY, UTAH  
SHL :  
BHL :  
Date : 3/8/93  
JOB NO. : 41FG0393022  
SURVEYOR : JOHN BECKNER

This survey is correct to the best of my knowledge  
and is supported by actual field data.

*Barbara Schumacher* COMPANY REPRESENTATIVE

---

SCIENTIFIC DRILLING INTERNATIONAL, INC.

Customer : UNION PACIFIC RESOURCES COMPANY  
 WELL NAME : #1-H ELKHORN 12-19 RE-ENTRY  
 Location : SUMMIT COUNTY, UTAH  
 SHL :  
 BHL :  
 No Interpolation

Date 3/8/93  
 Filename : 12-19S

Plane of Vertical Section : S20.56°E  
 Latitude & Departure relate to : PLATFORM CENTER  
 Vertical Section Originates at : PLATFORM CENTER  
 Slot Coordinates : Lat 0.000ft  
 : Dep 0.000ft  
 Directions Referenced To : GRID NORTH  
 Depth at Drill Floor : 0.00 ft

Calculation Method : MINIMUM CURVATURE

Magnetic Declination : +0.00°  
 PLATFORM North : +0° 0' 0'' (T)  
 Grid convergence : +0.0000°

SCIENTIFIC DRILLING INTERNATIONAL, INC.

Customer : UNION PACIFIC RESOURCES COMPANY  
 WELL NAME : #1-H ELKHORN 12-19 RE-ENTRY  
 Location : SUMMIT COUNTY, UTAH  
 SHL :  
 BHL :  
 No Interpolation

Page 1 of 3  
 Date 3/8/93  
 Filename : 12-19S

M. DEPTH	ANGLE	DIRECT'N	C/L	T V D	V/S	N/S-	E/W-	DLS
ft	deg	deg	ft	ft	ft	ft	ft	°/100
0.00	0.00	N 0.00°E	0	0.00	0.00	0.00	0.00	0.00
100.00	0.20	S54.98°W	100	100.00	0.00	-0.10	-0.14	0.20
200.00	0.22	S19.08°W	100	200.00	0.24	-0.38	-0.35	0.13
300.00	0.27	S16.26°E	100	300.00	0.62	-0.79	-0.35	0.16
400.00	0.40	S17.81°E	100	400.00	1.20	-1.35	-0.17	0.13
500.00	0.49	S38.71°E	100	499.99	1.96	-2.01	0.20	0.18
600.00	0.51	S44.48°E	100	599.99	2.77	-2.67	0.78	0.05
700.00	0.76	S43.84°E	100	699.98	3.79	-3.46	1.55	0.25
800.00	0.84	S54.13°E	100	799.97	5.01	-4.37	2.61	0.16
900.00	0.89	S47.58°E	100	899.96	6.31	-5.32	3.77	0.11
1000.00	0.80	S56.63°E	100	999.95	7.56	-6.23	4.93	0.16
1100.00	0.80	S55.75°E	100	1099.94	8.70	-7.01	6.09	0.00
1200.00	0.72	S59.76°E	100	1199.93	9.76	-7.72	7.21	0.10
1300.00	0.70	S69.39°E	100	1299.93	10.65	-8.25	8.32	0.12
1400.00	0.59	S58.99°E	100	1399.92	11.45	-8.73	9.34	0.16
1500.00	0.57	S57.01°E	100	1499.91	12.25	-9.26	10.19	0.03
1600.00	0.48	S58.75°E	100	1599.91	12.98	-9.75	10.97	0.09
1700.00	0.56	S64.27°E	100	1699.91	13.67	-10.18	11.77	0.09
1800.00	0.28	S64.89°E	100	1799.90	14.19	-10.50	12.43	0.28
1900.00	0.28	N75.94°E	100	1899.90	14.40	-10.54	12.89	0.19
2000.00	0.23	N85.96°E	100	1999.90	14.48	-10.47	13.33	0.07
2100.00	0.26	N64.42°E	100	2099.90	14.52	-10.36	13.73	0.10
2200.00	0.24	N87.08°E	100	2199.90	14.56	-10.25	14.14	0.10
2300.00	0.33	S72.29°E	100	2299.90	14.80	-10.32	14.63	0.14
2400.00	0.63	S56.60°E	100	2399.89	15.43	-10.71	15.36	0.33
2500.00	1.00	S49.23°E	100	2499.88	16.64	-11.59	16.48	0.38
2600.00	1.34	S48.23°E	100	2599.86	18.44	-12.94	18.01	0.34
2700.00	1.52	S42.14°E	100	2699.83	20.71	-14.70	19.78	0.24
2800.00	1.71	S39.16°E	100	2799.79	23.35	-16.84	21.61	0.21
2900.00	1.75	S41.36°E	100	2899.75	26.20	-19.14	23.56	0.08
3000.00	1.75	S38.71°E	100	2999.70	29.07	-21.48	25.52	0.08
3100.00	1.83	S38.89°E	100	3099.65	32.04	-23.91	27.48	0.08
3200.00	1.84	S37.43°E	100	3199.60	35.09	-26.43	29.46	0.05
3300.00	1.94	S35.02°E	100	3299.54	38.27	-29.09	31.41	0.13
3400.00	2.13	S33.97°E	100	3399.48	41.72	-32.02	33.42	0.19
3500.00	2.47	S32.95°E	100	3499.40	45.63	-35.37	35.63	0.34
3600.00	2.56	S32.38°E	100	3599.30	49.92	-39.06	37.99	0.09
3700.00	2.70	S32.40°E	100	3699.20	54.41	-42.94	40.45	0.14
3800.00	2.91	S28.76°E	100	3799.08	59.23	-47.15	42.94	0.28
3900.00	3.16	S21.50°E	100	3898.94	64.50	-51.94	45.17	0.46

SCIENTIFIC DRILLING INTERNATIONAL, INC.

Customer : UNION PACIFIC RESOURCES COMPANY  
 WELL NAME : #1-H ELKHORN 12-19 RE-ENTRY  
 Location : SUMMIT COUNTY, UTAH  
 SHL :  
 BHL :

Page 2 of 3  
 Date 3/8/93  
 Filename : 12-19S

No Interpolation

M. DEPTH	ANGLE	DIRECT'N	C/L	T V D	V/S	N/S-	E/W-	DL
ft	deg	deg	ft	ft	ft	ft	ft	°/100
4000.00	3.16	S13.23°E	100	3998.79	69.98	-57.19	46.81	0.46
4100.00	3.06	S10.19°E	100	4098.64	75.34	-62.50	47.91	0.11
4200.00	3.20	S 8.61°E	100	4198.49	80.70	-67.89	48.80	0.16
4300.00	2.56	S 6.78°E	100	4298.36	85.60	-72.86	49.48	0.65
4400.00	2.26	S 4.62°E	100	4398.28	89.66	-77.05	49.90	0.31
4500.00	2.25	S 5.42°E	100	4498.20	93.46	-80.97	50.25	0.00
4600.00	2.24	S 5.94°E	100	4598.12	97.24	-84.86	50.64	0.00
4700.00	1.98	S16.53°E	100	4698.05	100.86	-88.46	51.33	0.47
4800.00	1.94	S20.56°E	100	4798.00	104.27	-91.70	52.42	0.14
4900.00	2.01	S21.47°E	100	4897.94	107.72	-94.92	53.65	0.08
5000.00	1.85	S23.30°E	100	4997.88	111.08	-98.04	54.93	0.17
5100.00	1.64	S24.21°E	100	5097.83	114.12	-100.82	56.16	0.21
5200.00	1.62	S24.55°E	100	5197.79	116.96	-103.41	57.33	0.02
5300.00	1.51	S19.66°E	100	5297.75	119.69	-105.94	58.36	0.17
5400.00	1.55	S16.65°E	100	5397.72	122.36	-108.48	59.19	0.09
5500.00	1.57	S10.54°E	100	5497.68	125.05	-111.12	59.83	0.17
5600.00	1.60	S 0.45°W	100	5597.65	127.71	-113.86	60.07	0.31
5700.00	1.61	S 0.10°E	100	5697.60	130.33	-116.66	60.06	0.02
5800.00	1.61	S 0.77°W	100	5797.57	132.95	-119.47	60.05	0.03
5900.00	1.68	S 4.20°W	100	5897.52	135.59	-122.34	59.92	0.11
6000.00	1.39	S 9.93°W	100	5997.49	137.97	-125.00	59.60	0.30
6100.00	1.38	S 7.82°W	100	6097.46	140.07	-127.38	59.23	0.01
6200.00	1.48	S12.22°W	100	6197.43	142.22	-129.84	58.79	0.15
6300.00	1.52	S 7.58°W	100	6297.39	144.47	-132.42	58.35	0.13
6400.00	1.56	S 9.02°W	100	6397.36	146.83	-135.08	57.96	0.00
6500.00	1.53	S 8.00°W	100	6497.32	149.18	-137.74	57.56	0.04
6600.00	1.68	S 8.55°W	100	6597.28	151.63	-140.51	57.15	0.15
6700.00	1.64	S 8.30°W	100	6697.24	154.17	-143.38	56.73	0.04
6800.00	1.69	S 5.80°W	100	6797.20	156.74	-146.26	56.37	0.09
6900.00	1.64	S 8.98°W	100	6897.16	159.31	-149.14	56.00	0.10
7000.00	1.81	S 3.71°W	100	6997.11	161.99	-152.13	55.68	0.23
7100.00	2.08	S 2.52°W	100	7097.05	165.10	-155.52	55.49	0.27
7200.00	2.07	S 2.10°W	100	7196.99	168.44	-159.14	55.35	0.02
7300.00	2.33	S 8.14°W	100	7296.92	171.89	-162.96	54.99	0.31
7400.00	2.42	S11.58°W	100	7396.83	175.46	-167.04	54.28	0.17
7500.00	2.46	S 9.10°W	100	7496.74	179.11	-171.22	53.52	0.11
7600.00	2.61	S 2.88°W	100	7596.64	183.07	-175.62	53.07	0.33
7700.00	2.91	S12.48°E	100	7696.52	187.67	-180.37	53.50	0.80
7800.00	3.29	S19.92°E	100	7796.38	193.05	-185.55	55.03	0.55
7900.00	3.67	S24.21°E	100	7896.19	199.11	-191.16	57.32	0.46

SCIENTIFIC DRILLING INTERNATIONAL, INC.

Customer : UNION PACIFIC RESOURCES COMPANY  
 WELL NAME : #1-H ELKHORN 12-19 RE-ENTRY  
 Location : SUMMIT COUNTY, UTAH  
 SHL :  
 BHL :  
 No Interpolation

Page 3 of 3  
 Date 3/8/93  
 Filename : 12-19S

M. DEPTH	ANGLE	DIRECT'N	C/L	T V D	V/S	N/S-	E/W-	DLS
ft	deg	deg	ft	ft	ft	ft	ft	°/100
8000.00	3.74	S22.76°E	100	7995.99	205.57	-197.09	59.89	0.12
8100.00	3.74	S26.15°E	100	8095.77	212.07	-203.02	62.59	0.22
8200.00	3.70	S28.61°E	100	8195.56	218.51	-208.78	65.57	0.16
8300.00	3.71	S31.17°E	100	8295.35	224.89	-214.38	68.79	0.17
8400.00	3.63	S33.47°E	100	8395.15	231.15	-219.79	72.21	0.17
8500.00	3.42	S35.88°E	100	8494.96	237.12	-224.85	75.71	0.26
8600.00	3.28	S33.20°E	100	8594.79	242.78	-229.66	79.02	0.21
8700.00	2.70	S29.45°E	100	8694.65	247.90	-234.11	81.74	0.61
8800.00	2.60	S25.04°E	100	8794.54	252.49	-238.21	83.86	0.23
8900.00	2.54	S24.40°E	100	8894.44	256.96	-242.29	85.74	0.07
9000.00	2.55	S16.05°E	100	8994.35	261.39	-246.44	87.27	0.37
9100.00	2.61	S 5.16°E	100	9094.25	265.80	-250.85	88.09	0.49
9200.00	2.79	S 8.66°E	100	9194.13	270.38	-255.52	88.66	0.24
9300.00	3.01	S 0.43°W	100	9294.01	275.21	-260.55	89.01	0.51
9400.00	3.07	S 0.60°E	100	9393.87	280.18	-265.86	89.01	0.08
9500.00	3.11	S 7.46°W	100	9493.72	285.09	-271.22	88.69	0.44
9600.00	2.62	S 7.51°W	100	9593.60	289.51	-276.18	88.04	0.49
9700.00	1.78	S 1.49°W	100	9693.52	292.96	-280.00	87.70	0.87
9800.00	1.38	S 9.17°E	100	9793.48	295.58	-282.74	87.85	0.49
9900.00	1.22	S30.10°E	100	9893.46	297.81	-284.85	88.58	0.50
10000.00	1.44	S53.34°E	100	9993.43	299.92	-286.52	90.12	0.58
10100.00	1.78	N81.91°E	100	10093.40	301.31	-287.05	92.67	1.27
10200.00	2.48	N77.51°E	100	10193.33	301.95	-286.36	96.32	0.72
10300.00	3.05	N75.30°E	100	10293.21	302.52	-285.22	101.00	0.58
10400.00	3.41	N76.64°E	100	10393.05	303.17	-283.86	106.47	0.37

Origin of Bottom Hole Closure PLATFORM CENTRE  
 Bottom Hole Closure 303 ft S20.56°E

**DRILLING LOCATION ASSESSMENT**

**State of Utah  
Division of Oil, Gas and Mining**

OPERATOR: UNION PACIFIC RESOURCES COMPANY  
WELL NAME: #1H-UPRR-19-2  
SECTION: 19 TWP: 2N RNG: 7E LOC: 660 FWL 1980 FNL  
BOTTOM HOLE LOC: 1530 FEL 1770 FNL  
QTR/QTR SW/NW COUNTY: SUMMIT FIELD: ELKHORN  
SURFACE OWNER: UPRC  
SURFACE AGREEMENT: OPERATOR IS SURFACE OWNER  
SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL  
GEOLOGIST: BRAD HILL DATE AND TIME: 3/29/93 11:00

PARTICIPANTS: Frank Matthews & John Berrier-DOGM; Lyle Woelich-UPRC

REGIONAL SETTING/TOPOGRAPHY: Eastern Wasatch-Northern Uinta transition; the location is at the head of a broad drainage on an existing well pad.

LAND USE:

CURRENT SURFACE USE: Shut in well on existing pad.

PROPOSED SURFACE DISTURBANCE: Old pad will be regraded and possibly expanded. The pad size will be approximately 400'X 350' including a 100'X 80' reserve pit.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Surrounding the old pad is sage, juniper and various grasses. The area is populated by deer, elk, rabbits, birds and rodents.

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Clayey-silt with abundant gravel.

SURFACE FORMATION & CHARACTERISTICS: Quaternary alluvium.

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation at present. The location should be stable.

PALEONTOLOGICAL POTENTIAL: None observed.

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Watton Canyon/10486'-TD

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated.

CULTURAL RESOURCES/ARCHAEOLOGY: N/A

CONSTRUCTION MATERIALS: Onsite materials will be used for construction.

SITE RECLAMATION: As per landowner.

RESERVE PIT

CHARACTERISTICS: A reserve pit will be constructed with approximate dimensions of 100'X 80'X 10'.

LINING: UPRC plans to install a 12 mil synthetic liner.

MUD PROGRAM: The well will be drilled using fresh water mud.

DRILLING WATER SUPPLY: To be purchased from a nearby ranch.

STIPULATIONS FOR APD APPROVAL

A drainage diversion should be placed around the location. The down hill side of the pad should be bermed to prevent any run off or spills from leaving the pad.

ATTACHMENTS

Photographs will be placed on file.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
N/A

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

7. UNIT AGREEMENT NAME  
N/A

8. FARM OR LEASE NAME  
UPRR 19-2

9. WELL NO.  
#1-H

10. FIELD AND POOL, OR WILDCAT  
Elkhorn

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Se. 19-2N-7E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER

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

2. NAME OF OPERATOR  
Union Pacific Resources Company

3. ADDRESS OF OPERATOR  
P.O. Box 7 MS 3407 Fort Worth, Texas 76101-0007

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1980' FNL & 660' FWL  
At top prod. interval reported below  
At total depth 1770' FNL & 1530' FEL

14. API NO. 14-043-30068

DATE ISSUED 11-08-77

12. COUNTY Summit

13. STATE Utah

15. DATE SPUNDED 04-20-93

16. DATE T.D. REACHED 06-15-93

17. DATE COMPL. (Ready to prod.) 06-26-93 (Plug & Abd.)

18. ELEVATIONS (DF, BEB, RT, GR, ETC.) 6721' GR; 6745' KB

19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 11171'

21. PLUG BACK T.D., MD & TVD -

22. IF MULTIPLE COMPL. HOW MANY -

23. INTERVALS DRILLED BY -

ROTARY TOOLS 0-TD

CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)  
N/A  
Skid rig 30' North - Redrilled UPRR 19-2X

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
CBL/GR

27. WAS WELL CORED YES  NO  (Submit analysis)  
DRILL STEM TEST YES  NO  (See reverse side)

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	40#	1915'	12 1/4"	900 sxs HLC + 325 sxs Class G	-0-
7"	23#	11419'	8 3/4"	750 sxs 30:50:4 poz + 250 sxs 50:50:4 poz	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number)  
N/A

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6400' - 6900'	100 sxs cement plug
9000'	CIBP with 100 sxs cmt cap
9164' - 9594'	4" drillpipe cmt'd in hole

33. PRODUCTION

DATE FIRST PRODUCTION N/A

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
Junked & abandoned - skid rig to redrill

WELL STATUS (Producing or shut-in)

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
N/A

TEST WITNESSED BY

LIST OF ATTACHMENTS  
Logs forwarded under separate cover

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

SIGNED Camie Minzenmayer TITLE Regulatory Analyst DATE 01-27-94

See Spaces for Additional Data on Reverse Side



STATE OF UTAH  
DIVISION OIL, GAS AND MINING

\*AMENDED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 1. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESV.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Union Pacific Resources Company  
 3. ADDRESS OF OPERATOR  
P.O. Box 7 MS 3407 Fort Worth, Texas 76101-0007  
 4. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal laws)  
 At surface 1980' FNL & 660' FWL  
 At top prod. interval reported below  
 At total depth 1770' FNL & 1530' FEL

RECEIVED

DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
N/A  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
 7. UNIT AGREEMENT NAME  
N/A  
 8. FARM OR LEASE NAME  
UPRR 19-2  
 9. WELL NO.  
#1-H  
 10. FIELD AND POOL, OR WILDCAT  
Elkhorn  
 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Se. 19-2N-7E

14. API NO. 43-043-30300  
 DATE ISSUED 11-08-77  
 12. COUNTY Summit  
 13. STATE Utah

15. DATE SPUNDED 04-20-93  
 16. DATE T.D. REACHED 06-15-93  
 17. DATE COMPL. (Ready to prod.) 06-26-93 (Plug & Abd.)  
 18. ELEVATIONS (DF, BER, RT, GR, ETC.) 6721' GR; 6745' KB  
 19. ELEV. CASING HEAD -  
 20. TOTAL DEPTH, MD & TYD 11171'  
 21. PLUG BACK T.D., MD & TYD  
 22. IF MULTIPLE COMPL. HOW MANY  
 23. INTERVALS DRILLED BY ROTARY TOOLS 0-TD CABLE TOOLS -  
 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TYD)  
N/A  
 Skid rig 30' North - Redrilled UPRR 19-2X  
 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
CBL/GR 1-29-93 MWD LOG 1-19-94  
 27. WAS WELL CORED YES  NO  (Submit analysis)  
 DRILL STEM TEST YES  NO  (See reverse side)

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	40#	1915'	12 1/4"	900 sxs HLC + 325 sxs Class G	-0-
7"	23#	11419'	8 3/4"	750 sxs 30:50:4 poz + 250 sxs 50:50:4 poz	-0-

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					N/A		

31. PERFORATION RECORD (Fracture, size and number)	32. ACID, SHOT, FRACTURE CEMENT SQUEEZE ETC.	
	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	6400' - 6900'	100 sxs cement plug
	9000'	CIBP with 100 sxs cmt cap
	9164' - 9594'	4" drillpipe cmt'd in hole

33. PRODUCTION  
 DATE FIRST PRODUCTION N/A  
 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
Junked & abandoned skid rig to redrill  
 WELL STATUS (Producing or shut-in)  
 DATE OF TEST  
 HOURS TESTED  
 CHOKER SIZE  
 PROD'N FOR TEST PERIOD  
 OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO  
 FLOW TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE  
 OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS  
 Logs forwarded under separate cover  
 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Carin Minzenmayer TITLE Regulatory Analyst DATE 01-27-94

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

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

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

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

### 37. SUMMARY OF POROUS ZONES:

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

### 38. GEOLOGIC MARKERS

Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth	Top Irve Vert. Depth
				Stump	6838'	
				Base of Salt	9568'	
				Twin Creek	9650'	
				Leeds Creek	10120'	
				Watton Canyon	10486'	
				Sliderock	11000'	
				Gypsum Springs	11072'	
				Nuggett	11117'	