

Plugged & abandoned - 7-10-75

Well Originally Drilled By Union Twp Res

1-31-74 notice of Intent To Re-enter
& Deepen By Cities Service

Aug 74 thru Dec 75

FILE NOTATIONS

Entered in NID File
Operator's Log Mined
Card Indexed
.....

Checked by Chief
Approval Letter 8-4-72
Disapproval Letter

COMPLETION DATA:

Date Well Completed 3-16-73

Location Inspected

AW..... WW..... TA.....

Bond released

GW..... OS..... PA.....

State or Fee Land

LOGS FILED

Driller's Log.....

Electric Logs (No.)

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic GR..... Lat..... M-L..... Sonic.....

CBLog..... CCLog..... Others.....

Lup
1-31-91



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

SUITE 788 LINCOLNTOWER • 1860 LINCOLN STREET • DENVER, COLORADO 80203 • (303) 534-8221

July 31, 1972

U. S. Department of the Interior
Geological Survey
Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

Attention: Mr. Gerald R. Daniels

Re: Application for Permit to Drill
Federal-Weaver No. 1
Section 28-T26S-R22E
Grand County, Utah

Gentlemen:

Enclosed for approval is Application for Permit to Drill (Form 9-331C), and supporting material.

Subject well will be located on Section 28-T26S-R22E and will be directionally drilled so that the bottom hole location will be approximately 1980' FSL and 500' FEL, Section 29-T26S-R22E.

The surface location in Section 29 is located in the very rugged Hunters Canyon Area and cannot be economically reached. Therefore, the captioned surface location was chosen and the well planned to be drilled directionally.

This location in the Spanish Valley is approximately four miles from the town of Moab, Utah and one-quarter (1/4) mile from U. S. Highway 163. Approximately one-quarter (1/4) mile of new road will have to be constructed from this existing highway to the location.

The upper portion of the well will be drilled using fresh water obtained from Mill Creek. Salt water for the lower portion will be obtained from existing salt water wells in the Moab Area.

Since this is a wildcat well we have no other well locations at this time. In the event the well is productive, we will contact your office and the Bureau of Land Management in regard to the battery and flowline locations. At the present time we have no plans for a camp or airstrip.

The location layout will be a standard one as shown on the enclosed plat with variation as to the drilling company's requirements. The reserve pit will be located northeast of the location which is downhill. Drainage cuts will be made above the location to insure drainage around the location and pit.

Garbage and waste will be disposed of in garbage cans with lids and chemical toilets. The location and access road will be kept clean of trash at all times.

July 31, 1972

Page 2

The topography of the location is rugged with many large boulders and rocks and slopes generally to the northeast. These boulders will be moved to one side and can be put back on the location when drilling operations are ended if desired. The vegetation is very sparse, mainly sage brush and cactus. The soil is mainly sand with the general area considered desert.

At the conclusion of the drilling of this well the location and road will be restored as per the Bureau of Land Management's requirements.

The access road, location and general area will be kept clean at all times since the location is very near to a town and heavily traveled highway.

Designation of Operator (Form 9-1123) from Union Oil Company of California for Lease-Utah 11627 and Allied Chemical Corporation for Lease-Utah 0147105 will be forwarded as soon as they are received.

Please advise if any further information is required.

Yours very truly,



D. H. PICKERING
Senior Production Engineer

Copies:

Bureau of Land Management, Monticello, Utah 84535

State of Utah, Dept. of Natural Resources, Division of Oil & Gas Conservation,
1588 West North Temple, Salt Lake City, Utah 84116

Mr. Gordon Saathoff, Serio Exploration Co., P. O. Box 1207, Natchez, Mississippi
39120

Mr. Pickering

Encl.

DHP:rw

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Union Texas Petroleum, A Division of Allied Chemical Corporation

3. ADDRESS OF OPERATOR
 Suite 788 Lincoln Tower Building, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1637' FNL, 1467' FEL, Section 28-T26S-R22E
 At proposed prod. zone
 1980' FSL, 500' FEL, Section 29-T26S-R22E *NESWNE*

5. LEASE DESIGNATION AND SERIAL NO.
 Utah-11627

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal-Weaver

9. WELL NO.
 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 28-T26S-R22E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 500'

16. NO. OF ACRES IN LEASE
 1811.92*

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 None

19. PROPOSED DEPTH
 8990 MD ✓
 8500 TVD

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4757' GR

22. APPROX. DATE WORK WILL START*
 October 15, 1972

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"	48#	300'	+400 sx (circulate)
8-3/4"	5-1/2"	15-1/2# & 17#	TD	+300 sx

Surface location is on Utah-11627 Lease. Bottom hole location is on Utah 0147105.

*1811.92 Acres in Utah 0147105.

Subject well to be drilled directionally due to topography of surface of Section 29-T26S-R22E

Proposed program is to set approximately 300 ft. of 13-3/8" surface pipe. 7-7/8" hole will be drilled vertically to the top of the Paradox Salt to determine its datum (approximately 1500'). Cement plug will be set at +350 ft. and the well directionally drilled with 8-3/4" hole to a measured depth of approximately 5450 ft. and true vertical depth of 5000 ft. At this point we should have crossed a vertical fault. If no lost circulation occurs at this point, drilling will continue to total depth, which is approximately 9000 ft. measured depth and 8500 ft. true vertical depth. If lost circulation does occur at the fault, the hole will be reamed to 12-1/4" and 9-5/8" casing set through lost circulation zone. Drilling will

(continued on reverse side)
 IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed 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 *W.A. Lickering* TITLE Senior Production Engineer DATE July 31, 1972

(This space for Federal or State office use)

PERMIT NO. 43-019-30113 APPROVAL DATE _____

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

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

Item 1: If the proposal is to re-drill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse slide, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

then continue to total depth with 8-3/4" bit. Objective is the Mississippian formation.

At total depth we will run Laterolog, Micro-Laterolog, and Compensated Neutron Formation Density logs. A directional survey will also be made to determine bottom hole location. Drill stem tests will be run as shows warrant. If productive, casing program outlined above will be run, and productive zones selectively perforated and stimulated.

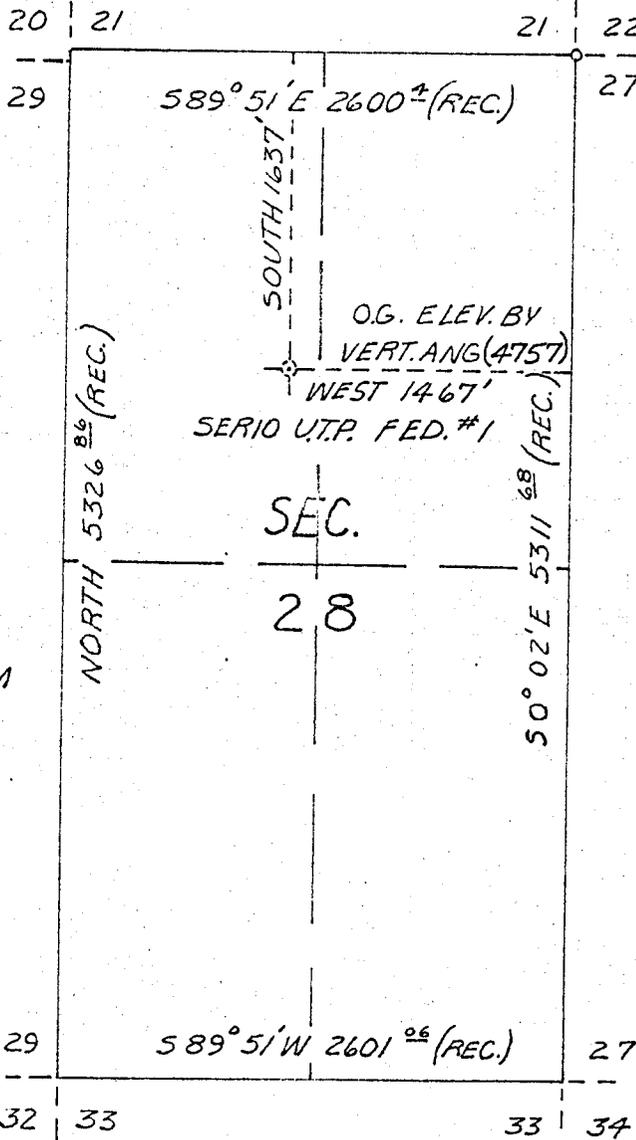
Surface casing and blowout preventer will be tested prior to drilling out cement. Blowout preventer equipment will be tested once each day and such tests logged in the daily drilling log.

WELL LOCATION PLAT

N

BEARING FROM NORTH LINE
SEC. 28, (589° 51' E REC.)

R. 22 E.



SCALE: 1" = 1000'

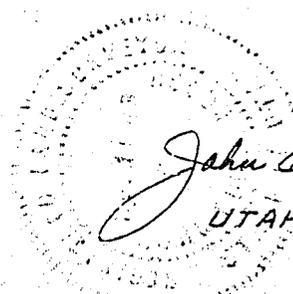
ELEVATION FROM N.E.
COR. SEC. 28, T. 26 S.,
R. 22 E., S.L.B. & M.
(4640) SCALED FROM
U.S.G.S. TOPO MAP
CASTLE VALLEY, UTAH
1954

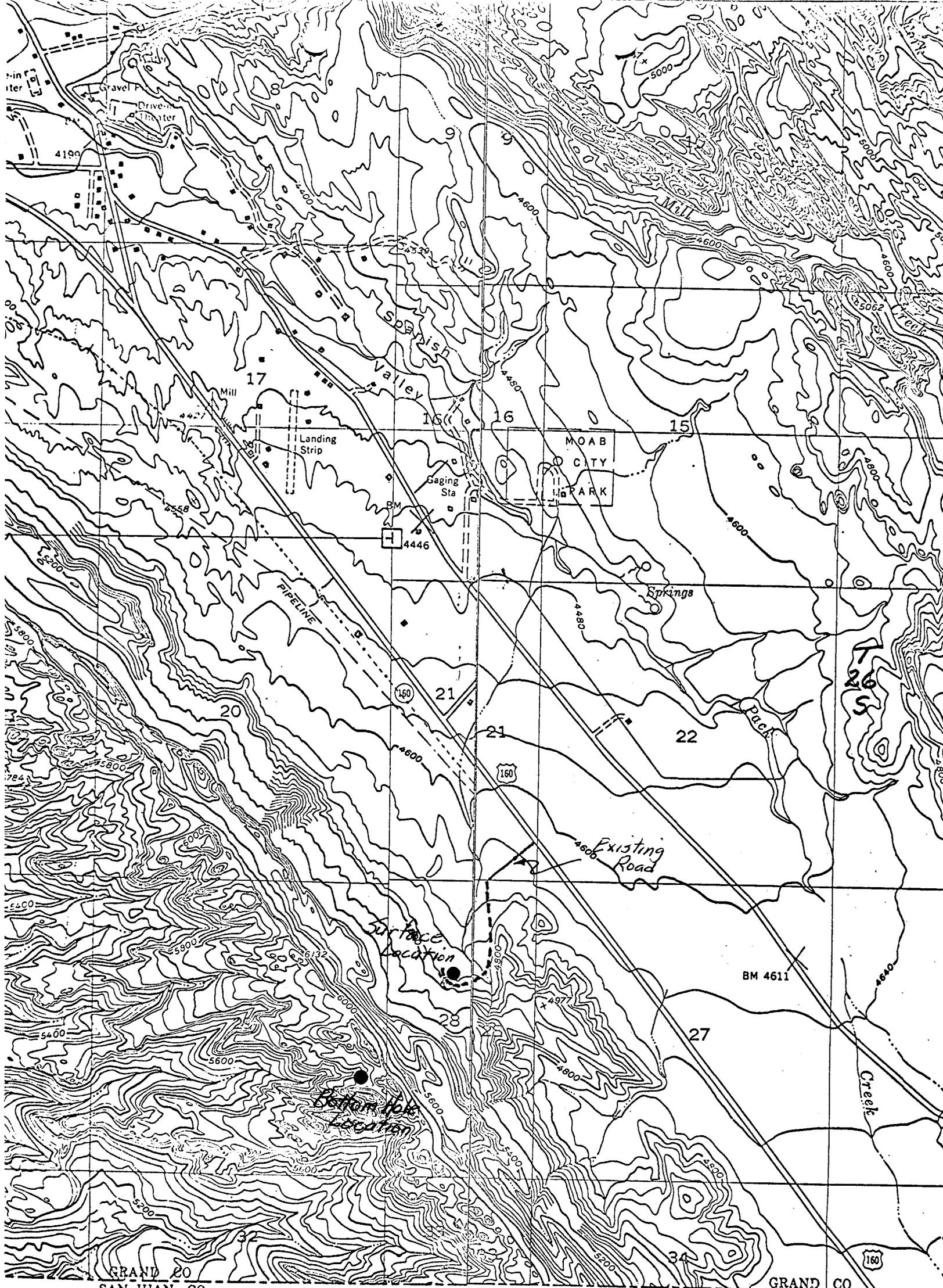
SERIO EXPLORATION-UTP-
FEDERAL WEAVER #1
IN N. 1/2 SEC. 28,
T. 26 S., R. 22 E., S.L.B. & M.
GRAND COUNTY, UTAH

FOR:

UNION TEXAS PETROLEUM
MAY 26, 1972

STADIA SURVEY


John E. Keogh
 UTAH REG'D. L.S. NO. 1963



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1961

109°30' **R22E**
 Mapped by the Geological Survey 1954

GRAND CO SAN JUAN CO LA SAL JU MONTICEN

ROAD CLASSIFICATION
 Improved Unimproved

Topography by multiplex methods from aerial photographs taken 1953
 Dashed land lines indicate approximate locations
 Symbols and other detail herein drawn for 1:62 500 scale publication

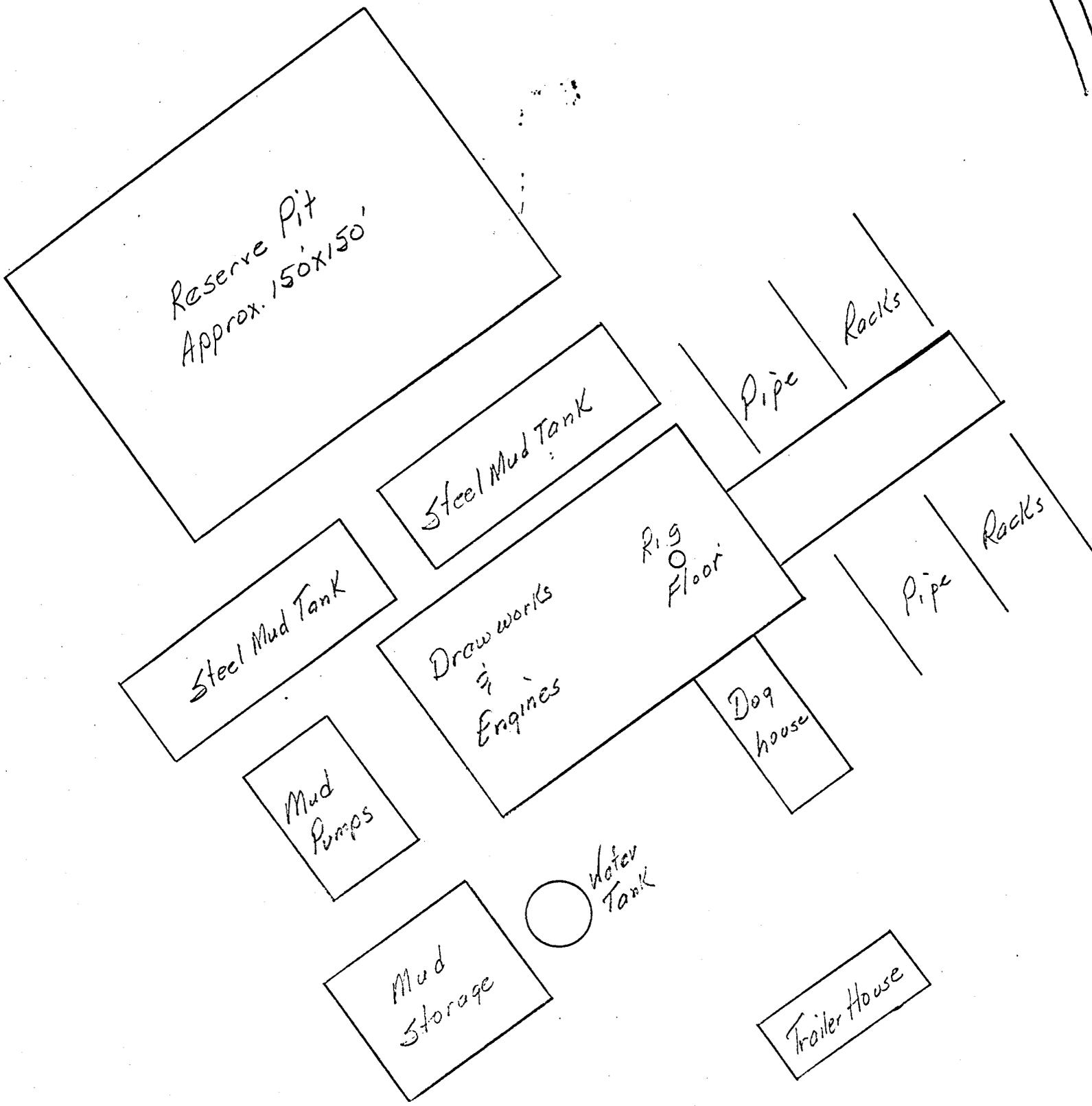
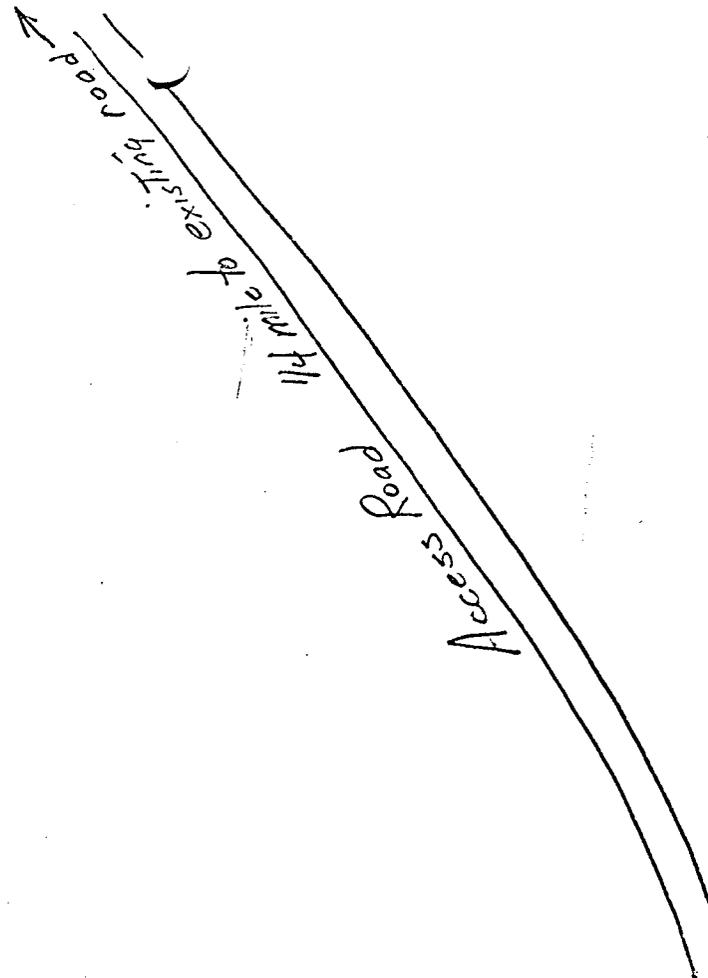
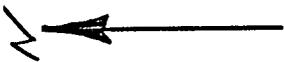
MOAB 4 SE, UTAH
 N3830—W10930/7.5

APPROV
 DECL

Serio Exploration - UTP
Federal Weaver No. 1

Lot 3 Section 28-T265-R22E
Grand County, Utah

Location size: Approximately
300' x 300'



PROP. PROD

TD

SURFACE

ZONE

8-4-72

APD

1637 FNL 1467 FEL
Sec 28

1980 FSL 500 FEL
Sec 29

Prop. TD = 8990 (MD)

3-17-73

PA'd

5-8-73

WCR

1637 FNL 1467 FEL
Sec 28

1654'S & 1679' W
of Surface location
(1989 FSL 506 FEL)
Sec 29

Prop. TD = 8286 (MD)

8-1-74

APD (Deepen)

1637 FNL 1467 FEL
Sec 28

624 FEL 1856 FSL
Sec 29

Prop. TD = 10800 (MD)

7-14-75

Sundry - PA'd

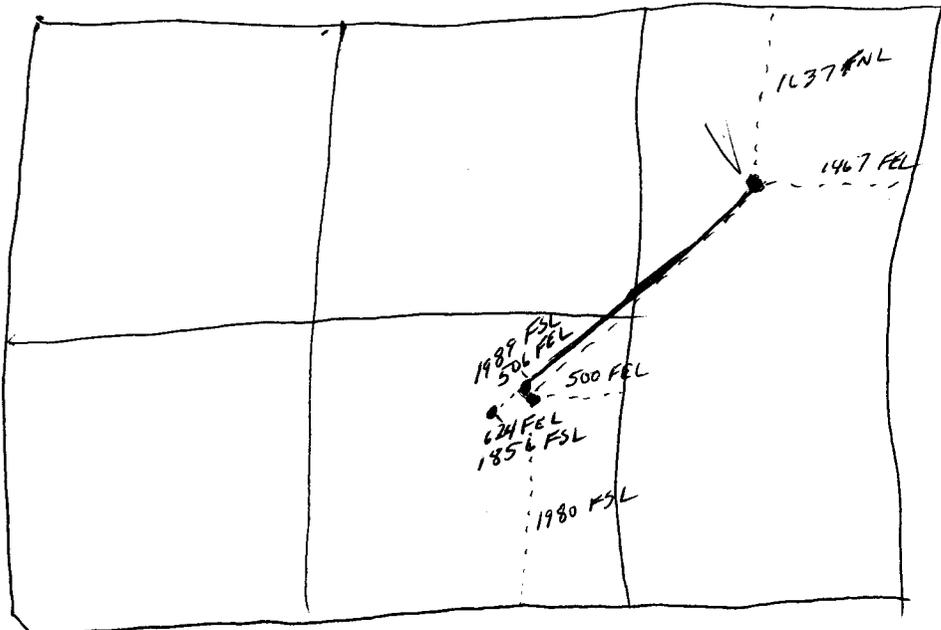
1637 FNL 1467 FEL

7-14-75

WCR

1637 FNL 1467 FEL

SAME error
True bottom hole unknown?



August 4, 1972

Union Texas Petroleum
Suite 788
Lincoln Tower Building
Denver, Colorado 80203

Re: Well No. Federal Weaver #1
Sec. 28, T. 26 S, R. 22 E,
Grand County, Utah

Gentlemen:

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

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

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

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

The API number assigned to this well is 43-019-30113.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

W

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

AMS

August 16, 1972

Mr. D. H. Pickering
Union Texas Petroleum
Suite 788, Lincoln Tower Bldg.
Denver, Colorado 80203

Re: Well No. 1 Federal-Weaver
Section 28, T. 26 S., R. 22 E., S.L.M.
Grand County, Utah
leases U 17919 and Utah 0147105

Dear Mr. Pickering:

Enclosed is your copy of the Application for Permit to Drill the referenced well which was conditionally approved by this office on August 16, 1972. In addition to the general conditions of approval attached to the application form the following conditions must be met:

1. Prior to commencing operations please file a Designation of Operator, form 9-1123, in favor of Union Texas Petroleum by Union Oil Company of California under lease U 17919 and a Designation of Operator, form 9-1123, in favor of Union Texas Petroleum Company by Allied Chemical Corporation under lease Utah 0147105.
2. The blowout preventers must have both pipe rams and blind rams installed as minimum and meet API Series 1500 specifications.
3. When cementing the 7 7/8" hole (to be drilled to 1500' to tag the Paradox Salt) please plan to place at least 200' of cement at the bottom of the hole and plan the top plug to extend from 350' to at least 500'.
4. Plan to run an intermediate casing string to be set after you are reasonably sure you have completely crossed the fault zone. The size of hole and casing is left to your discretion though the grade and weight of casing should be compatible with the Series 1500 blowout preventers. The Paradox Salts are known to generate abnormal subsurface pressures in wells to the northwest. In drilling through the fault (s) it is very likely that you will

encounter more than one area of structural weakness. The shallower zones to the east of the fault zone are likely to contain normal to subnormal hydrostatic pressures. Even though the abnormal pressures, if present, to the west of the fault zone are presently being contained, it is quite possible that opening the shallower zones east of the fault to abnormal pressures from west of the fault via the drill hole could result in a downhole blowout which could find its way to the surface or fresh aquifers via the multiple faults. The cementing program should be sufficient to cover any known faults if possible.

5. You plan to drill much of the well with salt water or salt water base mud. Construction of the reserve pit in the outcropping Chinle formation may result in contamination of fresh aquifers in the Chinle and surface alluvium if seepage occurs from the pit into the formation.
6. The well location is very near the highway and to Moab. The drilling operation will create an attraction for local residents and their children. Please caution the drilling crews to be especially watchful for safety hazards that might be created by uninvited people on the location. It might be well to post the road and location with warning signs. Also, it is suggested that you take such measures as you deem reasonable to reduce the noise associated with drilling operations.

I appreciate your fine cooperation in this drilling operation, especially your decision to drill a deviated well rather than to disturb the area above the cliff. In the event the well is completed as a producer we will consult with you further concerning possible methods of reducing the well's obtrusiveness.

Lease Utah 0147105 is subject to a Bureau of Reclamation stipulation due to part of the land in the lease being subject to a withdrawal for the Pack Creek project. The Bureau of Reclamation advised this office that a request to restore the land to the Public Domain was made in August, 1970. The surface location is a little over 1/4 mile outside the withdrawn area. Therefore, this office did not obtain formal clearance for the drilling operation from the Bureau of Reclamation.

Sincerely,

SRM: [unclear] [unclear]

Gerald R. Daniels
District Engineer

Enclosure

cc: BuRec, SLC
BLM, Monticello
BLM, Moab
Casper
✓ State Div O&G Cons.

Schlumberger

DIRECTIONAL LOG

COMPUTED

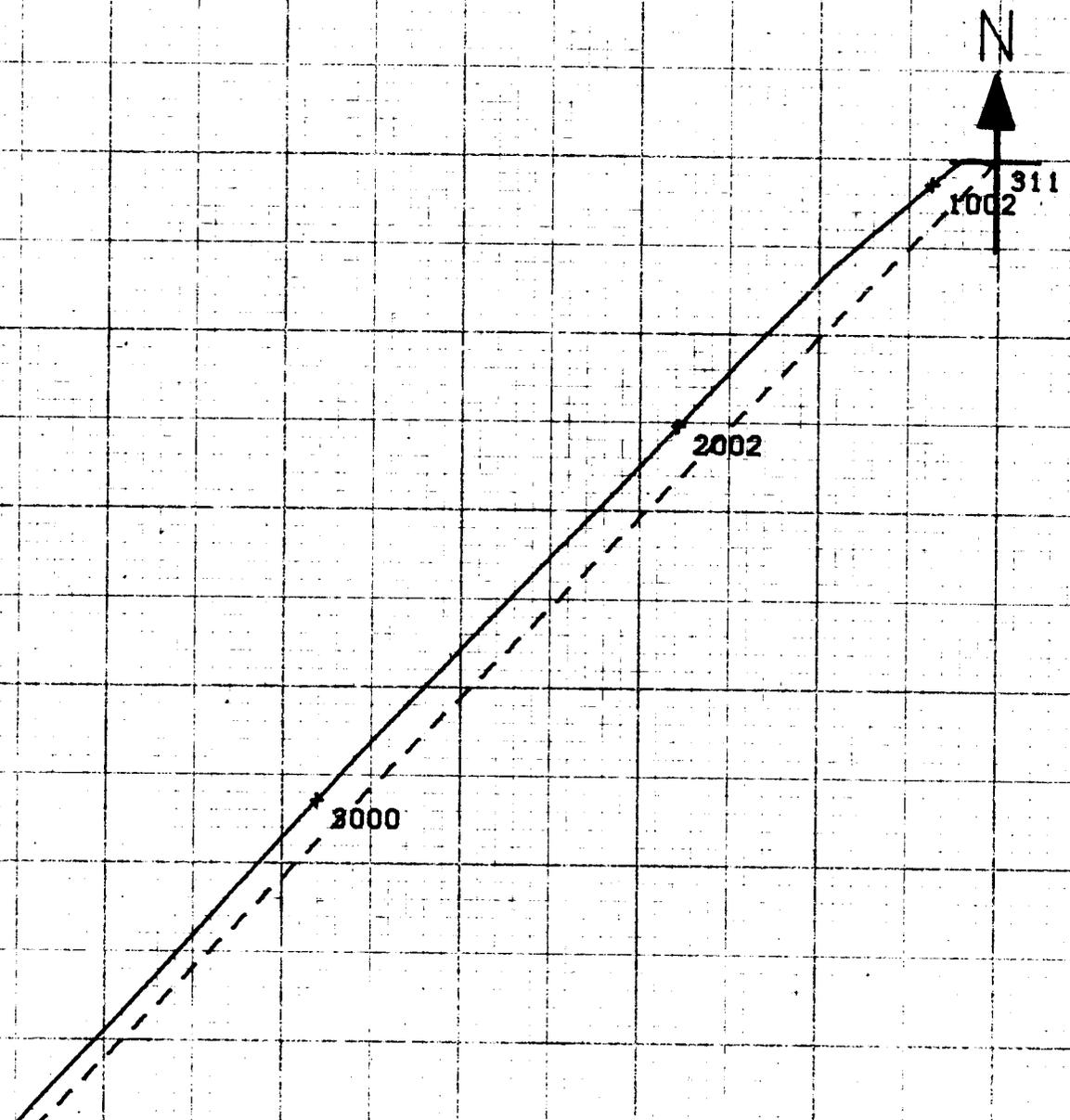
COUNTY GRAND FIELD or LOCATION WILDCAT WELL FEDERAL WEAVER NO. 1 COMPANY UNION TEXAS PET.	COMPANY <u>UNION OF TEXAS PETROLEUM</u>
	WELL <u>FEDERAL WEAVER NO. 1</u>
	FIELD <u>WILDCAT</u>
	COUNTY <u>GRAND</u> STATE <u>UTAH</u>
	LOCATION <u>SW NE</u>
Sec. <u>28</u> Twp. <u>26S</u> Rge. <u>22E</u>	Other Services: DIL BHC-GR

Permanent Datum: <u>G.L.</u> ; Elev.: <u>4763</u>	Elev.: K.B. <u>4775</u>
Log Measured From <u>K.B.</u> , <u>12</u> Ft. Above Perm. Datum	D.F. <u>----</u>
Drilling Measured From <u>K.B.</u>	G.L. <u>4763</u>

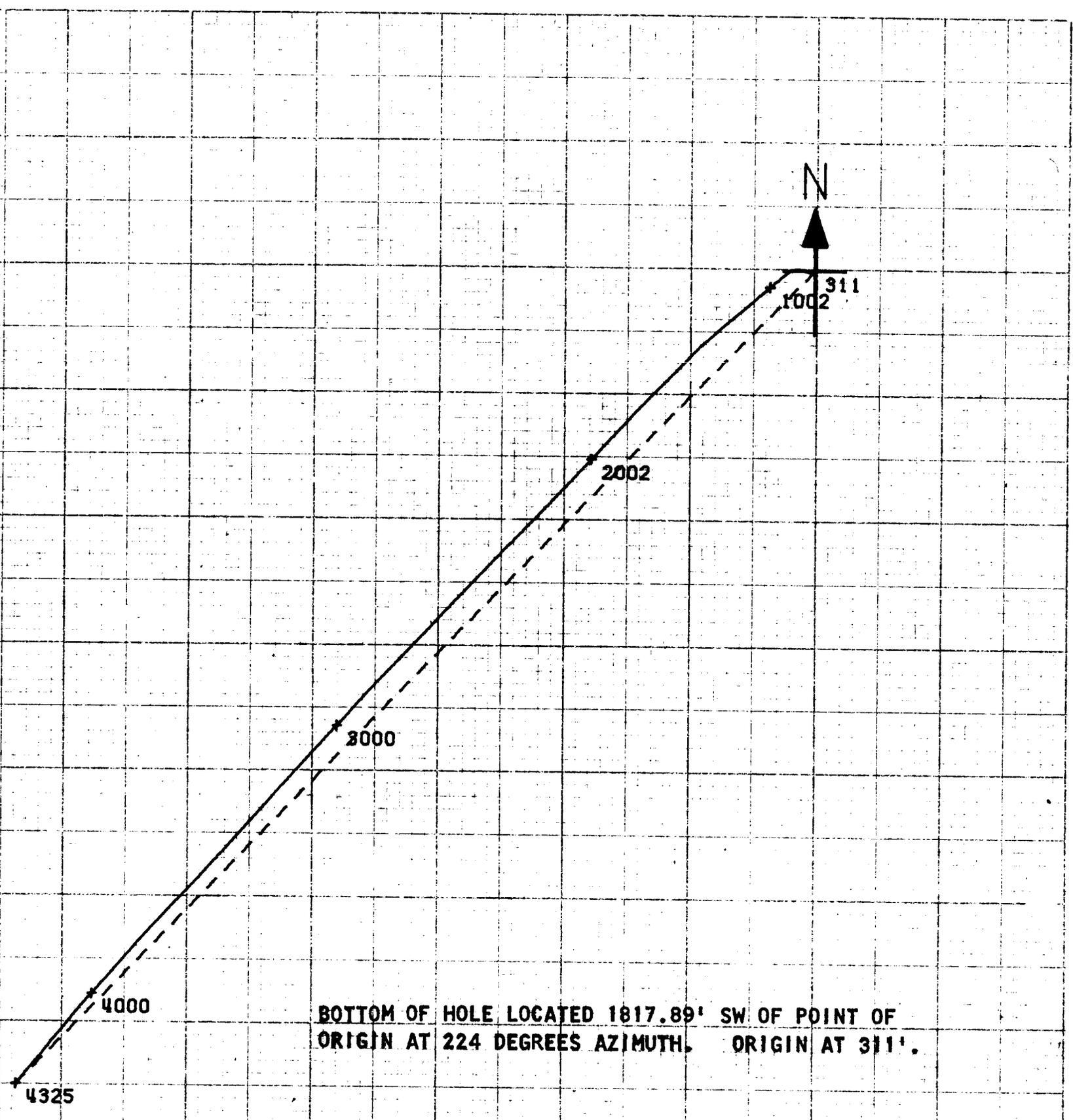
Date	<u>1-16-73</u>					
Run No.	<u>TWO</u>					
Depth—Driller	<u>4341</u>					
Depth—Logger	<u>4325</u>					
Btm. Log Interval	<u>4323</u>					
Top Log Interval	<u>312</u>					
Depth intervals between shots -						
Casing—Driller	<u>13-3/8@312</u>	@	@	@		
Casing—Logger	<u>311</u>					
Bit Size	<u>12-1/4</u>					
Type Fluid in Hole	<u>SALT MUD</u>					
Dens.	Visc.	<u>10.4</u>	<u>47</u>			
pH	Fluid Loss	<u>8</u>	-- ml	ml	ml	ml
Source of Sample	<u>MUDPIT</u>					
Rmf @ Meas. Temp.	<u>.066 @ 75</u> °F	@	°F	@	°F	@ °F
Rm @ BHT	<u>.044 @ 100</u> °F	@	°F	@	°F	@ °F
Time Since Circ.	<u>16 HOURS</u>					
Max. Rec. Temp.	<u>100</u> °F		°F		°F	°F
Equip.	Location	<u>5642 VERN.</u>				
Recorded By	<u>LANGLEY</u>					
Witnessed By	<u>PICKERING & BRODRICK</u>					

The well name, location and holehole reference data were furnished by the customer.

ANY DIRECTIONAL COMPUTATIONS MADE FROM THE DIPMETER LOG MUST BE
REGARDED AS APPROXIMATED ONLY. THIS IS BECAUSE THE DIPMETER LOG
INDICATES THE ORIENTATION OF THE INSTRUMENT ITSELF, RATHER THAN
THE DIRECTION AND AMOUNT OF THE WELL DRIFT. THEREFORE, WE DO
NOT AND CANNOT GUARANTEE THE ACCURACY OF SUCH DIRECTIONAL
COMPUTATIONS, AND WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY
LOSS, COST, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED THAT MAY
RESULT FROM ANY SUCH COMPUTATIONS.



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RESULT FROM ANY SUCH COMPUTATIONS.



BOTTOM OF HOLE LOCATED 1817.89' SW OF POINT OF
ORIGIN AT 224 DEGREES AZIMUTH. ORIGIN AT 311'.

D-7976

SCALE = 200 FT/IN

COMPANY UNION OF TEXAS PETROLEUM

WELL FEDERAL WEAVER NO. 1

FIELD WILDCAT

COUNTY GRAND STATE UTAH

SCHL. FR 4323

SCHL. TD 4325

DRLR TD 4341

Elev:

KB 4775

DF ----

GL 4763

P-W

JAN 29 1973

5 1/2"

FEDERAL WEAVER # 1
 SECTION 28-T26S-R22E
 GRAND COUNTY, UTAH
 TEST ZONES

9100
 9200
 9300
 9400
 9500
 9600
 9700
 9800
 9900
 10000
 10100
 10200
 10300

BP 9400 3 ske cement 9,400-9,369'

9474-90' 64 shots

Spot 1000 gal. 28% acid, took acid 1/3 bbl per min. Instant SI 2400#, 20 min SI 1900#. Swabbed to 5000' overnight SI 720#
 Max flow 3.35 Mcfd decreased to 0 in 4 hours

9576-84' 32 shots

Acidized 1000 gal 28% acid
 SI 2800# 15 min 1800#
 60 min 1500#
 Flow rate decreased from 30 to 2 Mcfd in 8 hours

RBP 9600

sh

9621-31' & 9665-68'

52 shots Gas Kick while Circ.
 Swab to 5500' SITP 130#
 Gas TSTM

RBP was @ 9701' moved up

9724-50' 104 shots

SITP 210# Fluid Level 6500'
 Flow rate 500 Mcfd for 20 min then dead
 Flow rate 156 Mcfd for 2 hours.
 Acidize 2000 gal 28% acid 20 min SI 1360#
 Flowed 3 hours SI 6 1/2 hours TP 520#
 Flowrate dropped 180 to 41 Mcfd 5 1/2 hours
 SITP 970# 15 hours.

BP 9770

9852-56' & 9838-43'
 9822-29' & 9792-97'
 84 shots

Acidized Flowed 3 1/2 hours 1" chk
 ITP 480# RFP 200#
 IF 2000 Mcfd FF 800 Mcfd dry gas
 SI 10 hours 1020#
 Flow Proven 85.5 to 63.5 Mcfd 3 hours
 20# 1/2" orifice

BP 9890

BP 10000

Acidized 2500 gal 28%
 45 min SI 2000#
 Flowed 47.4 to 33.7 Mcfd 1/2" plate

9924-31' & 9910-17'
 56 shots

Acidized 35 bbl 28% acid
 10 min SI 2200#
 Swab to 6000' 10 hours SI 0# but Fluid rise to 3500'

BP 10110

10092-104' & 10070-78'
 80 shots

Swab 6500' SI 14 hours
 0# Fluid level rise to 1500'
 Slight blow
 SI 14 hours 800' fluid level

BP 10164

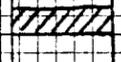
10114-124' 40 shots

14 hours SI 0#
 Swab 6500'
 14 hours SI fluid level 3000'

5 1/2"

FEDERAL WEAVER # 1
 SECTION 28-T26S-R22E
 GRAND COUNTY, UTAH
 TEST ZONES

9100
 9200
 9300
 9400
 9500
 9600
 9700
 9800
 9900
 10000
 10100
 10200
 10300



BP 9400 3 ske cement 9,400-9,369'

9474-90' 64 shots

Spot 1000 gal. 28% acid, took acid 1/3 bbl per min. Instant SI 2400#, 20 min SI 1900#. Swabbed to 5000' overnight SI 720# Max flow 3.35 Mcfd decreased to 0 in 4 hours

9576-84' 32 shots

Acidized 1000 gal 28% acid SI 2800# 15 min 1800# 60 min 1500# Flow rate decreased from 30 to 2 Mcfd in 8 hours

RBP 9600

sh

9621-31' & 9665-68'

52 shots Gas Kick while Circ. Swab to 5500' SITP 130# Gas TSTM

RBP was @ 9701' moved up

BP 9770

9724-50' 104 shots

SITP 210# Fluid Level 6500' Flow rate 500 Mcfd for 20 min then dead Flow rate 156 Mcfd for 2 hours. Acidize 2000 gal 28% acid 20 min SI 1360# flowed 3 hours. SI 6 1/2 hours TP 520# Flowrate dropped 180 to 41 Mcfd 3 1/2 hours SITP 970# 15 hours.

9852-56' & 9838-43'
 9822-29' & 9792-97'
 84 shots

Acidized Flowed 3 1/2 hours 1" chk ITP 480# FFP 240# IF 2000 Mcfd FF 800 Mcfd dry gas SI 10 hours 1020# Flow Proven 85.5 to 63.5 Mcfd 3 hours 20# 1/2" orifice Acidized 2500 gal 28% 45 min SI 2000# Flowed 47.4 to 33.7 Mcfd 1/2" plate

BP 9890

BP 10000

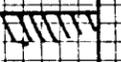
9924-31' & 9910-17'
 56 shots

Acidized 35 bbl 28% acid 10 min SI 2200# Swab to 6000' 10 hours SI 0# but Fluid rise to 3500'

BP 10110

10092-104' & 10070-78'
 80 shots

Swab 6500' SI 14 hours 0# Fluid level rise to 1500' Slight flow SI 14 hours 800' Fluid level



BP 10164

10114-124' 40 shots

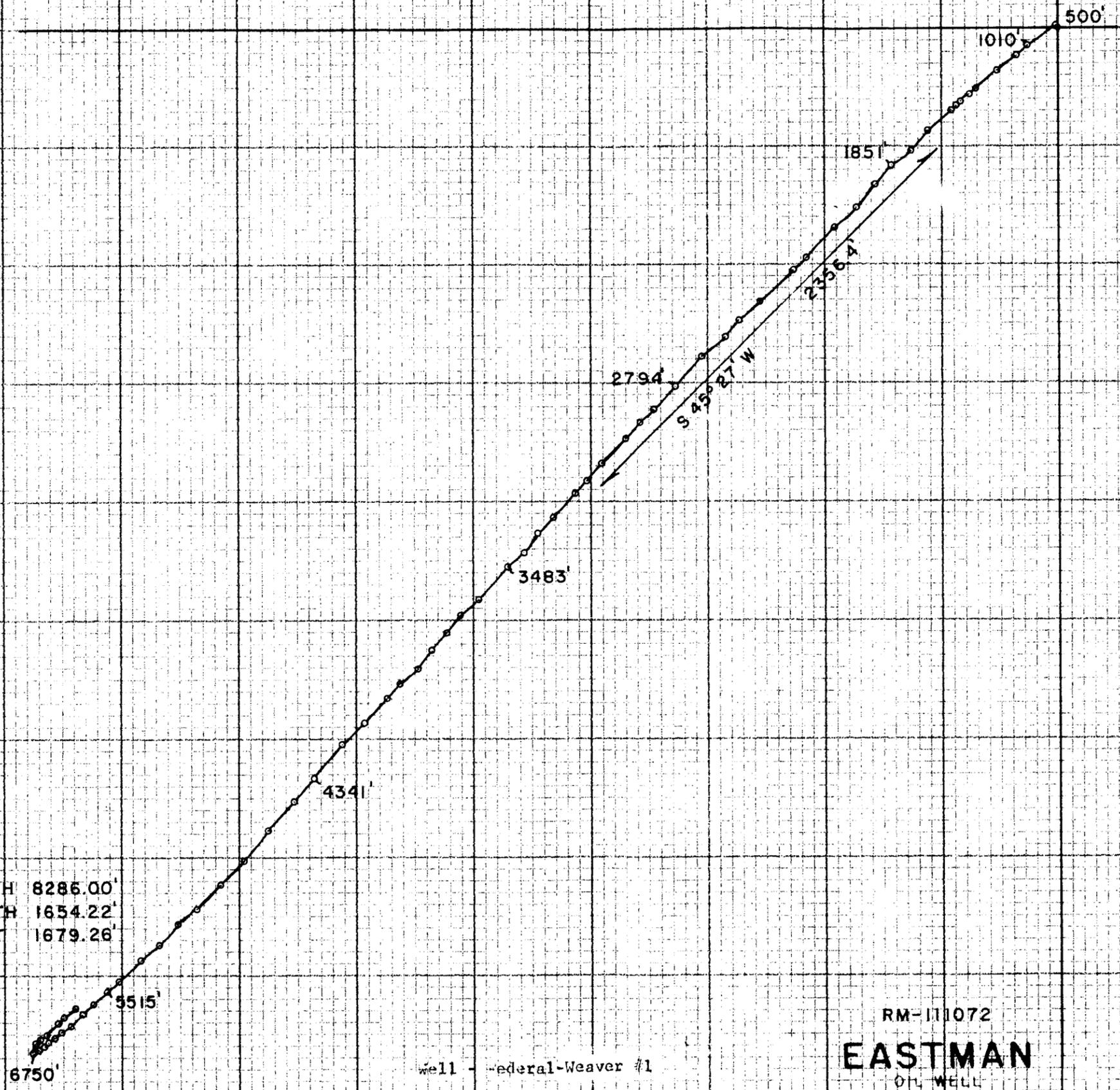
14 hours SI 0# Swab 6500' 14 hours SI fluid level 3000'

MADE IN U.S.A.
"СГЕУВЫИТ ВУЕК СО"
"СГЕУВЫИТ, СКОЗЕ СЕКЦИОН 10 X 10"



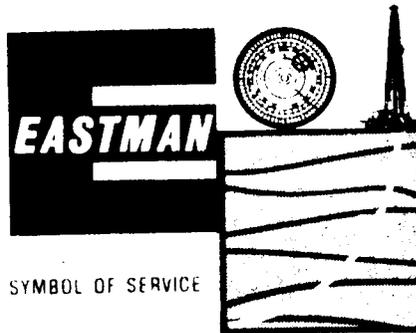
1" = 200'

DEPTH 8285.00'
SOUTH 1654.22'
WEST 1679.26'



well - Federal-Weaver #1

RM-111072
EASTMAN
OIL WELL
SURVEY COMPANY



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

Union Texas
COMPANY

Federal-Weaver #1
WELL NAME

Moab, Utah
LOCATION

JOB NUMBER

RM 111072

TYPE OF SURVEY

DATE

SURVEY BY
Ray O'Connell

OFFICE
Rocky Mtn.



RECORD OF SURVEY

Federal - Weaver #1

JOB NO. RM-111072

DATE _____

Page 1 of 3

CHECKED BY _____

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION		COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES									
								NORTH	SOUTH	EAST	WEST						
	500	0	500 00														
	605	30'	605 00			91	N40W	70									58
	625	3°30'	624 96			1 22	N41W	1 62									1 38
	655	3°30'	654 90			1 83	N60W	2 54									2 96
	684	4°30'	683 81			2 28	West	2 54									5 24
	714	6°30'	713 62			3 40	N88W	2 66									8 64
	749	8°	748 28			4 87	S85W	2 24									13 49
	859	10°15'	856 52			19 57	S55W			8 98							29 52
	948	12°15'	943 49			18 88	S50W			21 12							43 98
	1010	13°45'	1003 71			14 74	S50W			30 59							55 27
	1120	15°	1109 96			28 47	S50W			48 89							77 08
	1244	17°15'	1228 38			36 77	S51W			72 03							105 66
	1385	19°	1361 70			45 91	S51W			100 92							141 34
	1448	20°	1420 90			21 55	S53W			113 89							158 55
	1486	21°30'	1456 26			13 93	S49W			123 02							169 06
	1517	22°30'	1484 90			11 86	S46W			131 26							177 59
	1548	24°	1513 22			12 61	S45W			140 18							186 51
	1663	26°15'	1616 36			50 86	S47W			174 87							223 71
	1757	26°45'	1700 30			42 31	S46W			204 26							254 15
	1851	27°30'	1783 68			43 40	S45W			234 95							284 84
	1945	29°15'	1865 69			45 93	S43W			268 54							316 16
	2036	31°	1943 69			46 87	S42W			303 37							347 52
	2129	32°30'	2022 13			49 97	S44W			339 32							382 23
	2253	34°45'	2124 01			70 68	S46W			388 42							433 07
	2310	36°	2170 12			33 50	S46W			411 69							457 17
	2441	34°15'	2278 40			73 73	S47W			461 97							511 09
	2535	33°	2357 24			51 20	S47W			496 89							548 54
	2598	34°	2409 47			35 23	S45W			521 80							573 45
	2688	35°15'	2482 97			51 94	S45W			558 56							610 18
	2794	38°45'	2565 64			66 35	S44W			605 70							656 27



RECORD OF SURVEY

Federal - Weaver #1

JOB NO. RM-111072

DATE _____

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CHECKED BY _____

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES			
							NORTH	SOUTH	EAST	WEST
	2878	40°45'	2629 28		54 83	S45W		644 47		695 04
	2928	40°15'	2667 44		32 31	S44W		667 71		717 48
	2982	39°30'	2709 11		34 35	S43W		692 83		740 91
	3079	37°45'	2785 81		59 39	S43W		736 27		781 41
	3142	36°30'	2836 45		37 47	S43W		763 67		806 96
	3189	36°15'	2874 35		27 79	S42W		784 32		825 56
	3292	36°	2957 68		60 54	S43W		828 60		866 85
	3355	35°30'	3008 97		36 58	S42W		855 78		891 33
	3423	35°15'	3064 50		39 25	S43W		884 49		918 10
	3483	35°	3113 65		34 41	S43W		909 66		941 57
	3622	33°15'	3229 89		76 21	S43W		965 40		993 54
	3698	33°15'	3293 45		41 67	S42W		996 37		1021 42
	3758	33°30'	3343 48		33 12	S43W		1020 59		1044 01
	3833	34°30'	3405 29		42 48	S42W		1052 16		1072 43
	3902	34°45'	3461 98		39 33	S42W		1081 38		1098 75
	3962	35°15'	3510 98		34 63	S46W		1105 44		1123 66
	4024	35°15'	3561 61		35 78	S44W		1131 18		1148 51
	4129	35°45'	3646 83		61 35	S44W		1175 31		1191 13
	4211	35°45'	3713 38		47 91	S43W		1210 35		1223 80
	4341	35°	3819 87		74 56	S41W		1266 62		1272 72
	4432	34°30'	3894 87		51 54	S40W		1306 10		1305 85
	4555	33°45'	3997 14		68 34	S41W		1357 68		1350 69
	4679	33°	4101 14		67 54	S42W		1407 87		1395 88
	4787	30°	4194 63		54 00	S44W		1446 71		1433 39
	4912	26°	4306 98		54 80	S45W		1485 46		1472 14
	5023	24°	4408 61		45 15	S48W		1515 67		1505 69
	5147	22°	4523 58		46 45	S47W		1547 35		1539 66
	5272	20°15'	4640 85		43 26	S47W		1576 85		1571 30
	5425	17°45'	4786 57		46 64	S46W		1609 25		1604 85
	5515	16°30'	4872 86		25 56	S49W		1626 02		1624 14



RECORD OF SURVEY

Federal - Weaver #1

JOB NO. RM-111072

DATE _____

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CHECKED BY _____

STATION	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	VERTICAL SECTION		COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES							
								NORTH	SOUTH	EAST	WEST				
	5652	13°45'	5005	93		32 56	S48W			1647	81			1648	34
	5778	12°15'	5129	04		26 73	S48W			1665	70			1668	20
	5935	10°30'	5283	41		28 61	S49W			1684	47			1689	79
	6032	9°45'	5379	01		16 43	S49W			1695	25			1702	19
	6143	8°	5488	93		15 45	S52W			1704	76			1714	36
	6299	6°15'	5644	00		16 98	S50W			1715	67			1727	37
	6393	5°45'	5737	53		9 42	S56W			1720	94			1735	18
	6534	4°	5878	19		9 84	S56W			1726	44			1743	34
	6637	3°45'	5980	97		6 74	S56W			1730	21			1748	93
	6750	2°30'	6093	86		4 93	S68W			1732	06			1753	50
	6841	2°	6184	80		3 18	S87W			1732	23			1756	68
	6983	1°45'	6326	73		4 34	N75W			1731	11			1760	87
	7168	1°	6511	70		3 23	N20W			1728	07			1761	97
	7447	2°15'	6790	48		10 95	N40E			1719	68			1754	93
	7576	3°30'	6919	24		7 88	N50E			1714	61			1748	89
	7700	5°	7042	77		10 81	N51E			1707	81			1740	49
	7818	5°45'	7160	18		11 82	N45E			1699	45			1732	13
	8011	8°	7351	30		26 86	N47E			1681	13			1712	49
	8113	8°	7452	31		14 20	N51E			1672	19			1701	45
	8286	9°30'	7622	94		28 55	N51E			1654	22			1679	26
							Closure direction S45°27' W								
							Closure distance 2356.4 feet								

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

PLUGGING PROGRAM

NAME OF COMPANY Union Ind. Petroleum
WELL NAME Federal Warden #1 API NO: _____
Sec. 22 Township 26S Range 22E County Grand

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

Total Depth: 8270'

Casing Program:

13 3/8" @ 312'
Cement circulated

Formation Tops:

Permian - 3560'

9 7/8" @ 4243'
w/600 sacks
thru all faults

Base of fresh water @
Alluvium

Plugs Set as Follows:

40 sacks = 6800' up

" " = 4250' up

10 sacks in annulus
between 9 7/8" + 13 3/8"

20 sacks inside 9 7/8"

will plug today at tomorrow

1 DST
7935' - 8113'

Date: 3-16-73 USGS

Signed: Schnee

WM. M. BRODRICK

Geological Engineer

1022 MIDLAND SAVINGS BUILDING
DENVER, COLORADO 80202
534-3951

March 27th, 1973

Union Texas Petroleum
Suite 788 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203

Re: Geological Report
Union Texas Petroleum &
Serio Exploration
Federal Weaver No. 1
Surface location SW $\frac{1}{4}$ NE $\frac{1}{4}$
Sec. 28 T26S R22E
Bottom Hole NE $\frac{1}{4}$ SE $\frac{1}{4}$
Sec. 29 T26S R22E
Grand County, Utah

Gentlemen:

The subject well (directionally drilled) was spudded on November 1, 1972 and was completed as a dry hole on March 16, 1973 at a total depth of 8286' M.D. or 7622' V.D. I was present and on location for the examination of samples from 90' to Total Depth.

The following formation tops were encountered:

Elevation	4775'	K.B.
Penn. Hermosa.....	1100'	M.D. Samples
	1100'	M.D. Log
	1089'	V.D. (+3668)
Penn. Paradox.....	1930'	M.D. Samples
	1922'	M.D. Log
	1842'	V.D. (+2933)
Penn. Hermosa (Fault).....	2450'	M.D. Samples
	2450'	M.D. Log
	2287'	V.D. (+2488)
Penn. Paradox ? (Fault?).....	2640'	M.D. Samples
	2450'	V.D. (+2325)
Penn. Hermosa (Fault).....	2870'	M.D. Samples
	2621'	V.D. (+2154)
Penn. Upper Hermosa (Fault).....	3650'	M.D. Samples
	3257'	V.D. (+1538)
Mississippian ??	7730'	M.D. Samples
	7700'	M.D. Log
	7043'	V.D. (-2268)
Total Depth	8286'	M.D.
	7622'	V.D.

(M.D. = Measured depth. V.D. = True Vertical Depth)

The Federal Weaver No. 1 was drilled on the southwest flank of the Moab Valley Salt Anticline, approximately five miles southeast of the town of Moab, Utah. The prospect was based on subsurface studies, implemented by limited seismic information. Regional dip of the various formations in this area is to the southwest. The objective horizon was the Mississippian formation, with the nature of the reservoir being a fault trap.

The surface location of the test was on the valley floor, just northeast of the large fault controlling the west flank of the salt anticline. The well was directionally drilled to cross the fault and hit the target area approximately 2400 feet to the southwest.

It was apparent that the well would be drilling in a fault zone, as the surface outcrops indicated that the surface location of the well was on a minor fault just northeast and parallel to the main fault. Subsequent drilling bore this out, as several faults were crossed during the drilling of the well.

The Penn. Hermosa formation was encountered at 1100' and at 1930 feet the Paradox formation was cut. This was abnormally high for the Paradox and it must be a faulted segment of the Paradox that was lifted up by the salt as it flowed in and up to form the salt core anticline. At 2450' red beds of Hermosa type was cut indicating a fault. At 2650' gray dolomite and anhydrite was encountered which could be another segment of the Paradox, and at 2870' the red to brown dolomite and shale of the Hermosa was drilled.

From approximately 3200' to 3650' the carbonate facies of the Lower Hermosa was encountered, and at 3650' another fault was cut, with the samples indicating the shaley facies of the upper Hermosa. From 3650 feet the well penetrated at least 4000 feet of Penn. Hermosa sediments. A normal thickness of Hermosa in other wells in the area is from 1700 feet to 2000 feet.

In many places there are grabens along the anticlines as in Salt Valley, Cache Valley, and Moab Valley. It is possible that this abnormal thick Hermosa section is due to the presence of a graben at this location. The dipmeter through the Hermosa section indicates several other possible faults, although none could be determined by sample examination. Any one of these possible faults could represent where the bore hole went out of the graben and into the normal section.

At 7525 feet the dipmeter indicated a very abrupt change in the dips. Above that depth for several hundred feet the dips were consistently 5° to 6° southwest and below that depth and to the total depth of the well at 8286 feet the dips were consistently 20° to 30° (averaging 25°) southwest, indicating a fault or possibly an angular unconformity. The lithology also changed at this depth. Above, the rocks consisted of interbedded brown dolomite and shale. Below, the well penetrated carbonate rocks with practically no shale.

No Penn. Paradox rocks were penetrated and at 7730 feet, white to light gray finely crystalline limestone, white chalky limestone, gray to dark gray micaceous limestone, and white fossiliferous limestone were encountered, and considered to be of Mississippian age. Further penetration cut gray finely crystalline to dense dolomite and gray to dark gray limestone. However, similar carbonate rocks have been logged in the lower Pennsylvanian, and it is questionable whether this carbonate sequence is Mississippian or Pennsylvanian. No shows or porosity was logged in this formation, and a D.S.T. from 7935' to 8113' recovered only 3 feet of drilling fluid.

Structurally the Federal Weaver No. 1 is a low well. At the datum where the Mississippian (??) was tentatively called, it is 1124 feet lower than the Mississippian in a dry hole in Sec. 1 T27S R21E, $3\frac{1}{2}$ miles southwest, and 600 feet lower than the test in Sec. 17 T27S R22E, four miles south. It is also 435 feet lower than the Mississippian in Sec. 15 of the same township.

In Sec. 1 T26S R22E approximately 6 miles northeast of the Federal Weaver No. 1, and on the northeast flank of the Moab Valley anticline, the Mississippian is 3000 feet lower structurally than the subject well.

In summary, it is evident that the Federal Weaver No. 1 is a structurally low test, and if it is still in the Pennsylvanian, the structural picture is even more negative. The steep dips (25° southwest) of the beds from 7525 feet to 8286 does not fit the regional picture, and with the top of the Mississippian formation over 1000 feet higher in a dry hole $3\frac{1}{2}$ miles to the southwest, the well is undoubtedly in a down-thrown fault block.

The Lisbon field, approximately 25 miles southeast produces from the Mississippian formation on the southwest flank of the Lisbon Valley anticline, in a geological setting similar to the Federal Weaver No. 1 prospect. The reservoir at Lisbon is a faulted anticline of probable pre-Pennsylvanian origin. It is not in a fault block and the Mississippian as well as the upper formations dip regionally from the reservoir to the southwest without interruption.

The following zones of porosity and/or shows of oil or gas were observed:

- 1196' - 1220' (Hermosa) Sandstone, white to gray, very calcareous. Spotted black, asphaltic stain. Poor visible porosity, poor fluorescence, good cut. Appears non-commercial. No test. The sonic log indicates streaked porosity of 6% to 20%.
- 4856' - 4912' (Hermosa) Dolomite, brown, finely crystalline, silty, no shows of oil or gas, no fluorescence, no cut. The log indicates 12% to 16% porosity and water bearing.
- 5694' - 5734' (Hermosa) Dolomite, light brown, crystalline, with spotted porosity. Sandy in part. Slight amount white to pink chert. No show of oil or gas. No fluorescence or cut. The log indicates 17% porosity and water bearing.
- 5825' - 5842' (Hermosa) Dolomite, light brown, crystalline, with spotted porosity. No show of oil or gas, and no fluorescence or cut. The sonic log indicates 8% to 16% porosity and is water bearing.
- 7760' - 7771' (Mississippiian ??) Limestone, white, finely crystalline. Possible slight porosity. No shows of oil or gas, and no fluorescence or cut. This zone was covered by D.S.T. No. 1 noted below. Sonic log indicates 14% porosity.

The following Drill Stem Tests were run on the Federal Weaver No. 1:

D.S.T. No. 1 7935' to 8113'. Open 5 minutes, very weak blow. Shut in 30 minutes. Open 1 hour, with no blow. Shut in 1 hour. Recovered 3 feet drilling mud.

I.S.I.P.	83 p.s.i.
F.S.I.P.	48 p.s.i.
I.F.P.	35 p.s.i.
F.F.P.	35 p.s.i.
I.H.P.	4066 p.s.i.
F.H.P.	4053 p.s.i.

Due to the lack of any commercial oil or gas producing zones, and the apparent low structural position of the formations, the test was abandoned as a dry hole at 8286 feet. The decision to abandon the hole was made knowing the possibility that the formation at the bottom of the hole might be either Mississippian or lower Pennsylvanian.

Very truly yours,



Wm. M. Brodrick
Geological Engineer

WB/ar

Depth Correction Chart
Union Texas Petroleum
Federal Weaver No. 1

Measured Depth

True Vertical Depth

500	500
605	604
625	624
655	654
684	683
714	713
749	748
859	856
948	943
1010	1003
1120	1109
1244	1228
1385	1361
1448	1420
1486	1456
1517	1484
1548	1513
1663	1616
1757	1700
1851	1783
1945	1865
2036	1943
2129	2022
2253	2123
2310	2170
2441	2278
2535	2357
2598	2409
2688	2482
2794	2565
2878	2629
2928	2667
2982	2709
3079	2785
3142	2836
3189	2874
3292	2987
3355	3008
3423	3064
3483	3113

Measured DepthTrue Vertical Depth

3622	3229
3698	3293
3738	3343
3833	3405
3902	3462
3962	3511
4024	3561
4129	3647
4211	3713
4341	3820
4432	3895
4555	3997
4679	4101
4787	4194
4912	4307
5023	4408
5147	4523
5272	4640
5425	4786
5515	4872
5652	5005
5778	5129
5935	5283
6032	5379
6143	5488
6299	5644
6393	5737
6535	5879
6637	5980
6750	6093
6841	6184
6983	6326
7168	6511
7447	6790
7576	6919
7700	7042
7818	7160
8011	7351
8113	7452
8286	7622

SAMPLE DESCRIPTION

Union Texas Petroleum
and Serio Exploration
Federal Weaver No. 1
Surface Location SW NE
Sec. 28, T26S, R22E.
Total Depth NE $\frac{1}{4}$ SE $\frac{1}{4}$
Sec. 29, T26S, R22E
Grand County, Utah

Elevation 4775 KB

VERTICAL HOLE

90-150	Sandstone, red to pink, medium grain.
150-200	Shale, red, sandy, calcareous.
200-230	Sandstone, red to pink, medium grained.
230-300	Shale, red calcareous.
300-350	Sandstone, red to pink, medium grained, some red shales.
350-390	Sandstone as above, calcareous.
390-450	Anhydrite, white, tan, purple and gray, interbedded maroon shale.
450-560	Anhydrite as above with considerable large sand grains, sub-rounded, clear, some varicolored shales.
560-600	Shale, red, sandy.
600-700	Anhydrite as above with interbedded shale and large sand grains.
700-870	Interbedded anhydrite, white, pink, purple and maroon shales and quartz fragments.
870-1120	Shale maroon with considerable large quartz fragments.
1120-1150	Limestone, gray, crystalline to dense.

PENN. HERMOSA 1120 (+3655) Samples
1106 (+3669) Log

1150-1170	Limestone, gray to dark brown, crystalline to dense with interbedded red shales.
1170-1220	Sandstone, white to pink, poorly sorted, with red to gray shale.
1220-1300	Limestone, gray to dark gray crystalline, sandy in part with interbedded red shales.
1300-1340	Shale, brown to maroon, micaceous.
1340-1360	Sandstone, poorly sorted.
1360-1380	Limestone, gray, dense.
1380-1400	Shale, brown.
1400-1480	Interbedded brown crystalline limestone and brown calcareous siltstone.
1480-1490	Dolomite, light gray to light green, silty.

1490-1520 Limestone, gray, finely crystalline to crystalline,
sandy in part.
1520-1600 Dolomite and limestone as above.
1600-1670 Limestone, tan, fossiliferous.
1670-1700 Shale, black, soft carbonaceous.

PENN. PARADOX 1660 (+3115) Samples
1656 (+3119) Log

1700-1720 Limestone, dark gray, crystalline.
1720-1740 Anhydrite, white to light gray.
1740-1780 Dolomite, light gray, crystalline to granular.
1780-1810 Anhydrite as above.
1810-1820 Dolomite, light gray, crystalline.
1820-1900 Anhydrite, white to gray.
1900-1920 Dolomite, gray crystalline.
1920-2020 Anhydrite, white to gray.
2020-2030 Dolomite, brown to gray, finely crystalline.
2030-2100 Anhydrite and dolomite as above.
2100-2140 Poor samples, probably anhydrite.
2140-2200 Dolomite, tan to gray, crystalline to dense.
2200-2226 Anhydrite, white.

TOTAL DEPTH 2226 Drillers
2216 Log

DEVIATED HOLE

600-690 Interbedded quartz fragments, red shale and anhydrite.
690-720 Shale, gray, sandy.
720-730 White, quartz fragments.
730-770 Shale, gray and red.
770-1080 Quartz fragments, clear to pink, some interbedded red
shale.
1080-1100 Sandstone, red to pink, poorly sorted.
1100-1200 Limestone, red to gray, dense, silty with interbedded
red shales and poorly sorted sandstone.

PENN. HERMOSA 1100 M.D. Samples
1100 M.D. Log
1089 (+3686) V.D.

1200-1250 Sandstone, white, medium grained, very calcareous,
spotted black asphaltic staining, poor fluorescence,
good cut.
1250-1280 Sandstone, white to pink, conglomeratic.
1280-1300 Limestone, gray, dense.

1300-1400	Limestone, brown to gray, dense and silty with interbedded red shale.
1400-1420	Sandstone, conglomeratic.
1420-1490	Shale and limestone as above.
1490-1620	Interbedded red shales and red crystalline limestone, some red micaceous siltstone.
1620-1650	Limestone, gray to tan, crystalline, silty.
1650-1720	Limestone, gray, dense.
1720-1770	Limestone, red, finely crystalline to dense, silty in part.
1770-1850	Limestone as above with interbedded white to pink conglomeratic sandstone.
1850-1890	Limestone, gray, dense.
1890-1930	Sandstone, pink, conglomeratic with interbedded red siltstone.
1930-1990	Dolomite, gray, dense with interbedded black carbonaceous shale and white anhydrite.

PENN. PARADOX 1930 M.D. Samples
 1922 M.D. Log
 1842 (+2933) V.D. Log

1990-2110	Interbedded dolomites and anhydrites as above.
2110-2150	Anhydrite, white.
2150-2180	Dolomite, light gray, granular with interbedded black shales.
2180-2210	Dolomite, gray to dark gray, finely crystalline with some interbedded anhydrite.
2210-2270	Dolomite, gray, finely crystal to dense with some interbedded black carbonaceous shale.
2270-2300	Dolomite as above with some black dolomite.
2300-2340	Dolomite, dark gray, silty with some black shale.
2340-2400	Dolomite as above with interbedded white to gray anhydrite.
2400-2430	Dolomite, gray brown, finely crystalline.
2430-2450	Dolomite, brown to gray, dense.
2450-2460	Sandstone, red, fine-grained, calcareous and silty.

PENN. HERMOSA 2450 M.D. Samples
 2450 M.D. Log
 2287 (+2488) V.D.

2460-2490	Siltstone, red calcareous interbedded with red fine-grained calcareous sandstone.
2490-2530	Sandstone as above with interbedded pink, poorly sorted calcareous sandstone.
2530-2570	Siltstone, red micaceous and calcareous.

2570-2590 Sandstone, red, calcareous, micaceous and sandy.
 2590-2640 Siltstone as above with slight amount of anhydrite.
 2640-2660 Dolomite, light gray to green, finely crystalline,
 much anhydrite.

PENN. PARADOX (?) 2640 M.D. Samples
 2450 (+2325)V.D. Samples

2660-2710 Dolomite, light gray to green, finely crystalline,
 interbedded light to gray anhydrite.
 2710-2840 Anhydrite, white to gray with interbedded light green,
 finely crystalline dolomite.
 2840-2850 Sandstone, very fine grained, micaceous and calcareous.
 2850-2870 Dolomite as above.
 2870-2910 Sandstone, red, very fine grained, micaceous and cal-
 careous with interbedded red siltstone.

PENN. HERMOSA 2870 M.D. Samples
 2621 V.D. (+2154)

2910-2950 Siltstone and sandstone as above. Some dark red lime-
 stone, crystalline to dense.
 2950-2970 Anhydrite, white to light gray micaceous.
 2970-3060 Interbedded red siltstone and brown silty limestone,
 brown fine grained sandstone, calcareous and micaceous,
 some anhydrite.
 3060-3140 As above with red crystalline silty dolomite.
 3140-3160 Dolomite, brown crystalline, silty with interbedded
 shale and siltstone.
 3160-3200 Limestone, red to brown crystalline.
 3200-3210 Dolomite, brown silty, some white anhydrite.
 3210-3220 Dolomite, light gray crystalline, micaceous.
 3220-3230 Shale, veri-colored with white anhydrite.
 3230-3320 Dolomite, brown, crystalline, silty with interbedded
 veri-colored shale.
 3320-3370 Dolomite, brown, crystalline, silty:
 3370-3380 Sandstone, white to light gray, conglomerated and
 calcareous.
 3380-3420 Dolomite and sandstone as above.
 3420-3430 Shale, brown to red.
 3430-3470 Dolomite, brown to red, crystalline and sandy in part.
 3470-3480 Limestone, light gray, crystalline.
 3480-3650 Dolomite, brown to gray, silty and sandy in part, some
 gray dense limestone, slight amount of brown shale.
 3650-3680 Shale, brown.

UPPER HERMOSA 3650 M.D. Samples
 3257 V.D. (+1538)

3680-3700	Shale as above.
3700-3720	Shale, light green, pyritic.
3720-3740	Shale as above with interbedded light brown calcareous sandstone.
3740-3750	Shale, green and maroon.
3750-3780	Shale as above with interbedded silty dolomite and brown silty sandstone.
3780-3810	Brown silty dolomite with interbedded shale and silty sandstone.
3810-3820	Shale, brown, green, purple, dolomite, brown, crystalline, silty.
3820-3850	Siltstone, brown, calcareous with varicolored shale as above.
3850-3940	Interbedded brown siltstone, brown shale and brown silty dolomite, considerable clear quartz fragments.
3940-3950	Dolomite, brown, crystalline, sandy.
3950-3970	Shale dolomitic and sandy, some dolomite as above.
3970-4000	Shale, brown, calcareous with interbedded silty dolomite.
4000-4070	Shale, brown, calcareous, finely micaceous.
4070-4080	Shale as above, some brown sandy dolomite.
4080-4110	Shale as above with white to brown crystalline dolomite.
4110-4150	Dolomite, very silty, brown, slightly sandy.
4150-4160	Shale, brown to red.
4160-4190	Dolomite, brown, finely crystalline, very silty.
4190-4230	Interbedded dolomite and shales as above. Some large quartz fragments.
4230-4260	Shale, brown with interbedded brown granular silty dolomite.
4260-4270	Shale, brown, micaceous.
4270-4280	Dolomite, green, very silty and sandy, some shale as above.
4280-4310	Dolomite, brown, crystalline, silty, possibly glauconitic.
4310-4320	Shale, brown with interbedded silty dolomite.
4320-4330	Dolomite, light gray, dense.
4330-4380	Dolomite, brown, silty.
4380-4400	Shale, brown, micaceous, dolomitic, some green shale.
4400-4410	Dolomite, brown, crystalline, silty.
4410-4440	Shale, brown, micaceous, some brown dolomite as above.
4440-4480	Dolomite, brown to light brown, silty.
4480-4510	Interbedded shales and dolomites as above.
4510-4520	Shale, brown micaceous, dolomitic.

- 4520-4540 Dolomite, light brown to brown, medium crystalline.
4540-4600 Shale, brown, micaceous, dolomitic with some brown dolomite.
- 4600-4710 As above with light gray-green dense dolomite.
4710-4770 Shale, brown, micaceous, dolomitic, some light green-gray and brown dolomite.
- 4770-4820 Shale and dolomite as above, slight amount of chert.
4820-4840 Shale, brown, dolomitic.
4840-4870 Dolomite, brown, finely crystalline, silty.
4870-4920 Dolomite, brown, finely crystalline, silty and slightly glauconitic, slight porosity, no shows, no fluorescence, no cut.
- 4920-4950 Dolomite as above, some brown micaceous dolomitic shale.
- 4950-4980 Dolomite as above, increase in brown shale.
4980-5010 Dolomite, light brown, finely crystalline, silty, spotted porosity, no shows, no fluorescence, no cut.
- 5010-5020 Shale, brown micaceous, dolomitic.
5020-5060 Interbedded shales and dolomite as above.
5060-5080 Dolomite, light brown, finely crystalline, silty, slight porosity.
- 5080-5140 Dolomite, brown, finely crystalline, silty, also dolomite light gray, finely crystalline.
- 5140-5170 Shale, brown dolomitic, micaceous, some red chert.
5170-5200 Interbedded shale and dolomite as above.
5200-5220 Dolomite, brown, finely crystalline, silty, slight amount anhydrite.
- 5220-5250 Shale, brown, micaceous, some green dolomite.
5250-5270 Interbedded shale and dolomite as above.
5270-5290 Dolomite, brown, crystalline, silty, some porosity, no shows, no fluorescence, no cut.
- 5290-5340 Dolomite, brown crystalline, silty, poor porosity.
5340-5390 Dolomite as above, some interbedded brown shale.
5390-5470 Interbedded shales and dolomite as above. Some green shale.
- 5470-5510 Shale, brown with interbedded brown finely crystalline dolomite.
- 5510-5515 As above with white chert.
5515-5520 Brown shale.
5520-5570 Dolomite, finely crystalline, brown, very silty, some brown shale.
- 5570-5580 Dolomite as above.
- 5580-5610 Shale, brown, some anhydrite.
5610-5620 Dolomite, brown, finely crystalline, silty.
5620-5650 Dolomite and shale as above.
5650-5710 Dolomite, light to dark brown, finely crystalline, sandy in part, some dark brown shale.
- 5710-5740 Dolomite, light brown, crystalline, spotted porosity, some white sandy dolomite, no shows, no fluorescence, no cut.
- 5740-5760 Shale, brown dolomitic.
5760-5780 Dolomite, light brown to brown, finely crystalline to coarsely crystalline. Much white to pink chert.
- 5780-5800 Interbedded brown crystalline dolomite with spotted porosity and brown dolomitic shale, some anhydrite.

5800-5810	Dolomite, light brown to light gray, crystalline.
5810-5830	Dolomite as above, some brown shale and white to pink chert.
5830-5850	Shale, brown and gray, some gray crystalline dolomite.
5850-5860	Dolomite, medium crystalline, light brown, sandy in part, porous, also gray dense limestone and gray shale, no shows, no fluorescence, no cut.
5860-5910	As above, less porosity.
5910-5930	Dolomite, brown to light brown, finely crystalline, silty.
5930-5960	Dolomite as above with some brown shale and slight amount of chert.
5960-6000	Dolomite, brown, finely crystalline, silty.
6000-6040	Dolomite, brown, finely crystalline, very silty, some brown shale and white anhydrite.
6040-6060	Dolomite, light brown, finely crystalline, silty, some white clear chert.
6060-6090	Dolomite, brown, finely crystalline to dense, some light gray finely crystalline limestone.
6090-6120	Dolomite, brown, finely crystalline, silty.
6120-6170	Dolomite, brown, very finely crystalline and silty, some brown shale.
6170-6190	Shale, brown, dolomitic and micaceous.
6190-6250	Shale as above with interbedded brown finely crystalline dolomite.
6250-6280	As above. Increase in dolomite.
6280-6290	Dolomite, brown, finely crystalline, silty with shale stringers.
6290-6325	Shale, brown dolomitic.
6325-6400	Interbedded brown dolomitic shale and brown finely crystalline, silty dolomite.
6400-6500	Dolomite, brown, finely crystalline.
6500-6540	Shale, brown dolomitic, some brown dolomite as above.
6540-6550	Dolomite, brown to light brown, finely crystalline, silty, slight amount of brown shale.
6550-6590	Dolomite, brown, finely crystalline, hard.
6590-6620	Dolomite as above with some brown shale.
6620-6640	Shale, dark to light brown.
6640-6660	Shale as above, some brown finely crystalline to dense dolomite.
6660-6740	Dolomite, brown, finely crystalline, silty.
6740-6780	Dolomite, brown to light brown crystalline.
6780-6790	Dolomite as above, increase in brown shale.
6790-6850	Dolomite and shale as above.
6850-6860	Dolomite, light tan to gray, crystalline with spotted black mineralization, some white anhydrite.
6860-6885	Dolomite, light tan to gray, crystalline, very soft, no porosity, some anhydrite.
6885-6890	Dolomite as above with interbedded brown shales and dolomite.
6890-6910	Dolomite, red to brown, finely crystalline, silty.
6910-6930	Dolomite, brown, finely crystalline, micaceous and silty.

- 6930-6950 Dolomite as above with gray finely crystalline dolomite, interbedded, brown micaceous, dolomitic shale.
- 6950-6980 Interbedded brown dolomite and shale as above.
- 6980-6990 Shale, brown, micaceous, dolomitic, slight amount silty dolomite as above.
- 6990-7070 Dolomite, brown, finely crystalline, micaceous with interbedded brown shale.
- 7070-7080 Dolomite, brown, finely crystalline, silty and micaceous.
- 7080-7110 Dolomite, dark gray to black, finely crystalline to dense.
- 7110-7160 Dolomite, brown, finely crystalline with some brown shale.
- 7160-7190 Interbedded brown and gray dolomite and brown shales.
- 7190-7210 Dolomite, dark gray to brown, finely crystalline.
- 7210-7240 Dolomite, brown to light brown, finely crystalline, silty, slight amount of anhydrite.
- 7240-7250 Shale, brown, dolomitic.
- 7250-7330 Interbedded brown shale and brown and gray dolomite.
- 7330-7350 Dolomite, gray, finely crystalline.
- 7350-7380 Interbedded brown silty dolomite and brown shales.
- 7380-7400 As above, some tan coarsely crystalline dolomite.
- 7400-7420 Shale, brown dolomite with tan dolomite as above.
- 7420-7530 Interbedded brown dolomite shales. Brown to gray finely crystalline silty dolomite.
- 7530-7550 Limestone, dolomitic, gray granular, very micaceous and slightly glauconitic.
- 7550-7570 Limestone, dolomitic, gray to dark gray, finely crystalline and micaceous.
- 7570-7600 Limestone, dark gray, finely crystalline, hard.
- 7600-7610 Limestone, white chalky to light gray and tan. Finely crystalline to dense.
- 7610-7630 Limestone, tan, dense, slight amount tan chert.
- 7630-7650 Limestone, tan to gray, finely crystalline to dense. Some brown shales and dolomite, very micaceous.
- 7650-7690 Limestone, gray, brown and white as above. Considerable tan chert. Also brown and gray dolomite, some pink siliceous, material loose, conglomeratic.
- 7690-7700 Limestone conglomerate, limestone white, gray, pink, crystalline, some pink siliceous dolomite and pink chert, also brown shale.
- 7700-7720 Limestone, tan, gray, brown, finely crystalline to dense, some brown shales.
- 7720-7730 Limestone, light to dark brown, finely crystalline, some brown shale.
- 7730-7740 Limestone, white to light gray, finely crystalline.

MISSISSIPPIAN

(??) 7730 M.D. Samples
 7700 M.D. Log
 7043 V.D. (-2268)

- 7740-7750 Limestone, white, finely crystalline to light gray, dense, slightly micaceous.

7750-7770	Limestone as above with some white chalky limestone.
7770-7780	Limestone, white, finely crystalline, possible slight porosity, no shows, no fluorescence, no cut. Also some white chalky limestone.
7780-7800	Limestone, white to light gray, finely crystalline to dense, some brown crystalline dolomite.
7800-7845	Limestone, dark gray, finely crystalline, shaly.
7845-7850	Limestone as above, some white to light gray crystalline limestone.
7850-7865	Limestone, white to gray, crystalline, very fossiliferous, some white chalky limestone.
7865-7870	Limestone, light gray to gray, finely crystalline.
7870-7875	Limestone as above, very micaceous in part.
7875-7880	Limestone, white, gray, finely crystalline, micaceous.
7880-7885	Limestone, white to gray, finely crystalline, dolomite, brown and interbedded brown shale.
7885-7890	Limestone, dolomitic, white to light gray crystalline.
7890-7895	Limestone as above with white chalky limestone.
7895-7905	Dolomite, white to gray, crystalline, micaceous, poor porosity, no show, no fluorescence, no cut.
7905-7910	Dark gray, micaceous shale. Very dolomitic.
7910-7915	Dolomite, gray, finely crystalline, shaly.
7915-7925	Limestone, light to dark gray, finely crystalline to dense and white crystalline limestone. Very micaceous.
7925-7935	Limestone, gray to dark gray, finely crystalline to dense, some dark gray chert.
7935-7980	Limestone, light gray to dark gray, finely crystalline to dense, some light gray fossiliferous limestone.
7980-7990	Limestone, white, finely crystalline to tan, dense, fossiliferous in part, some gray finely crystalline limestone.
7990-7995	Limestone as above, slight amount white dolomitic sandstone.
7995-8000	Limestone, white chalky, dolomitic, some finely crystalline, fossiliferous limestone, dolomitic, coarsely crystalline, mottled.
8000-8010	Limestone, white, chalky to finely crystalline, dolomitic.
8010-8020	Very poor sample.
8020-8040	Limestone, tan to gray, dense and white chalky limestone.
8040-8050	Limestone, white, tan, light gray, finely crystalline to dense.
8050-8055	Limestone as above, some gray finely crystalline dolomite.
8055-8060	Dolomite, light gray to gray, finely crystalline to dense. Some coarsely crystalline dolomite, no shows, no porosity.
8060-8105	Limestone, tan, gray, dense dolomitic, some tan chert.
8105-8110	Limestone, light gray, finely crystalline, dolomitic.

8110-8120 Very poor sample.
8120-8145 Limestone, gray to dark gray, finely crystalline to dense, dolomitic.
8145-8155 Dolomite, white to light gray, finely crystalline.
8155-8165 Dolomite, white, coarsely crystalline, some white to light gray finely crystalline dolomite.
8165-8170 Dolomite as above with light to dark gray finely crystalline limestone.
8170-8180 Limestone, light gray to tan, finely crystalline chert, tan. Also white chalky limestone.
8180-8185 Limestone, gray to tan, finely crystalline.
8185-8200 Limestone, tan to gray, finely crystalline to dense with white chalky limestone and tan chert.
8200-8260 Limestone as above with interbedded light gray fossiliferous limestone.
8260-8270 Limestone, gray, crystalline.
8270-8280 Limestone, gray, crystalline with interbedded light brown, dolomitic limestone. No porosity, no shows.
8280-8286 Limestone, dolomitic, brown to dark gray, crystalline to finely crystalline, no porosity, some black carbonaceous material. No fluorescence, no cut.

T. D. 8286 M.D.
7622 V.D.



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

SUITE 788 LINCOLN TOWER • 1860 LINCOLN STREET • DENVER, COLORADO 80203 • (303) 534-8221

April 3, 1973

- 1-General Crude Oil Co., 1650 Colorado State Bank Bldg., Denver, Colorado 80202, Attention: Mr. Conley R. Goodrum
- 2-Serio Exploration Co., P. O. Box 1207, Natchez, Mississippi 39120, Attention: Mr. Gordon Saathoff
- 1-Union Oil Company of California, P. O. Box 3372, Durango, Colorado 81302
- 1-State of Utah, Dept. of Natural Resources, Division of Oil and Gas Conservation, 1588 West North Temple, Salt Lake City, Utah 84116
- 2-U. S. Geological Survey, Branch of Oil and Gas Operations, 8416 Federal Bldg., Salt Lake City, Utah 84111
- 1-Mr. Bill Holmes, Houston Office

Re: Federal-Weaver #1
SW NE Section 28-T26S-R22E
Moab Area
Grand County, Utah

Gentlemen:

As listed above, enclosed for each of you are copies of Geological Report relative to the drilling of the subject well.

Yours very truly,

D. H. PICKERING
Assistant District Production Manager

Encl.
DHP:rw

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DENIGATION AND SERIAL NO.

U-17919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-Weaver

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 28-T26S-R22E

12. COUNTY OR PARISH

Grand

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 Dry hole

2. NAME OF OPERATOR

Union Texas Petroleum, A Division of Allied Chemical Corporation

3. ADDRESS OF OPERATOR

788 Lincoln Tower Building, Denver, Colorado 80203

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

1637' FNL, 1467' FEL, Section 28-T26S-R22E (U-17919)

14. PERMIT NO.

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

4763 GL, 4775 KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETS

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

Verbal approval from Mr. Daniels of the U. S. Geological Survey received on March 17, 1973, to plug well as follows:

10 sx Between 9-5/8" and 13-3/8" casing

20 sx Top of surface

40 sx 4250-4135

40 sx 6800-6680

Plugged and abandoned March 17, 1973.

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

SIGNED

TITLE Assistant Dist. Prod. Manager DATE May 8, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE DISTRICT ENGINEER

DATE

AUG 17 1974

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U-17919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-Weaver

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 28-T26S-R22E

12. COUNTY OR PARISH

Grand

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
Union Texas Petroleum, A Division of Allied Chemical Corporation

3. ADDRESS OF OPERATOR
Suite 788 Lincoln Tower Building, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface
1637' FNL, 1467' FEL, Section 28-T26S-R22E (U-17919)
At top prod. interval reported below

At total depth
1654.22'S and 1679.26'W of
above location (U-0147105)

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUNDED 10/31/72 16. DATE T.D. REACHED 3/13/73 17. DATE COMPL. (Ready to prod.) P & A 3/17/73 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4763 GL, 4775 KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 8286 MD, 7623 TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY Surface to TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Laterolog, GR Sonic, Compensated Neutron-Density 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	90#	30'	24"	3 yds. Redimix	None
13-3/8"	48#	312'	17-1/2"	365 sx, 2% cc	None
9-5/8"	40#	4238'	12-1/4"	560 sx w/12-1/2# Gilsonite /sk, & 100 sx Class C regular	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

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

33.* PRODUCTION
DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) PLUGGED AND ABANDONED MARCH 17, 1973 WELL STATUS (Producing or shut-in)

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

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

35. LIST OF ATTACHMENTS

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

SIGNED [Signature] TITLE Assistant Dist. Prod. Manager DATE May 8, 1973

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U-17919

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-Weaver

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 28-T26S-R22E

12. COUNTY OR PARISH

Grand

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 DREF-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Union Texas Petroleum, A Division of Allied Chemical Corporation

3. ADDRESS OF OPERATOR
Suite 788 Lincoln Tower Building, Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface
1637' FNL, 1467' FEL, Section 28-T26S-R22E (U-17919)
At top prod. interval reported below

At total depth
1654' 22" and 1670' 26" W of
47105)

14. PERMIT NO. DATE ISSUED

17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD

3 P & A 3/17/73 4763 GL, 4775 KB

BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

Surface to TD

COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
Dual Induction Laterol

CASING SIZE	WEIGHT, LB./FT.
20"	90#
13-3/8"	48#
9-5/8"	40#

SIZE	TOP (MD)	BC

31. PERFORATION RECORD (Interval, size)

1637 FNL
+ 1654 3
3271 FNL
2640 QA
650
2640 QA
- 651
1989 FSL

1467 FEL
1679 W
3146 FEL
2640 QA
506
2640 QA
- 506
2134 FWL

1989 FSL 506 FEL

27. WAS WELL CORED
No

MENTING RECORD	AMOUNT PULLED
bedimix	None
2% cc	None
7/12-1/2# Gilsonite	None
.00 sx Class C regular	

TUBING RECORD	
DEPTH NET (MD)	PACKER NET (MD)

F. FRACTURE, CEMENT SQUEEZE, ETC.

AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)
PLUGGED AND ABANDONED MARCH 17, 1973

DATE OF TEST	HOURS TESTED	CHOKE 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.) TEST WITNESSED BY

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 [Signature] TITLE Assistant Dist. Prod. Manager DATE May 8, 1973

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
DST #1:	7935-8113, open	5 min., SI	30 min., open 60 min., SI 60 min. Very weak blow on initial flow; no blow on final flow. Recovered 3' drilling mud. SIP 83-48, FP 35-35, HP 4066-4054, BHT 120° F.	Log tops:		
				Penn. Hermosa	1100	MD Samples
					1089	VD (+3668)
				Penn. Paradox	1930	MD Samples
					1842	VD (+2933)
				Penn. Hermosa	2450	MD Samples
				(Fault)	2287	VD (+2488)
				Penn. Paradox	2640	MD Samples
				(Fault?)	2450	VD (+2325)
				Penn. Hermosa	2870	MD Samples
				(Fault)	2621	VD (+2154)
				Penn. Upper Hermosa (Fault)	3650	MD Samples
				Mississippian ??	3257	VD (+1538)
				Total Depth	7730	MD Samples
					7043	VD (-2268)
					8286	MD
					7623	VD

FORM OGCC-8-X
FILE IN QUADRUPLICATE

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Federal-Weaver #1
Operator Union Texas Petroleum Address 788 Lincoln Tower Bldg.
Denver, CO 80203 Phone 303-534-8221
P. O. Box 3035
Contractor Pioneer Drilling Co. Address Casper, WY 82601 Phone 307-237-9527
Location SW 1/4 NE 1/4 Sec. 28 T. 26 N R. 22 E Grand County, Utah.
S W

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	<u>None</u>		
2.			
3.			
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops:

See other side.

Remarks: No water flows were encountered.

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

Drillers Log: (Continued)

Log tops:

Penn. Hermosa	1100'	MD Samples
	1089'	VD (+3668)
Penn. Paradox	1930'	MD Samples
	1842'	VD (+2933)
Penn. Hermosa	2450'	MD Samples
(Fault)	2287'	VD (+2488)
Penn. Paradox ?	2640'	MD Samples
(Fault?)	2450'	VD (+2325)
Penn. Hermosa	2870'	MD Samples
(Fault)	2621'	VD (+2154)
Penn. Upper	3650'	MD Samples
Hermosa (Fault)	3257'	VD (+1538)
Mississippian ??	7730'	MD Samples
	7043'	VD (-2268)
Total Depth	8286'	MD
	7623'	VD

Rule C-20

REPORTING OF FRESH WATER SANDS

It shall be the duty of any person, operator or contractor drilling an oil or gas well or drilling a seismic, core or other exploratory hole to report to the Commission all fresh water sands encountered; such report shall be in writing and give the location of the well or hole, the depth at which the sands were encountered, and the thickness of such sands, and the rate of flow of water if known.

MAY 16 1975

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 CITIES SERVICE OIL COMPANY

3. ADDRESS OF OPERATOR
 1600 Broadway, Suite 900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1637' FNL & 1467' FEL, Section 28-T26S-R22E, U-24586
 At proposed prod. zone
 624' FEL & 1856' FSL, Section 29-T26S-R22E, U-0147105

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4 miles S. SW of the city of Moab, Utah

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

16. NO. OF ACRES IN LEASE
 1811.92

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH
 TVD 10,150' : MD 10,800'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4757 GR

22. APPROX. DATE WORK WILL START*
 November 15, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
* 24 "	20 "	90#	30'	3 yards redi-mix.
* 17 1/2"	13 3/8"	48#	312'	365 sks. w/2% CaCl ₂
* 12 1/4"	9 5/8"	40#	4238'	560 sks. w/12 1/2#/sk. Gilsonite 100 sks. Class "C"
8 1/2"	5 1/2"	17#	T.D.	500 sks. Class "G"

* Casing is cemented in the well.

Proposed program is to re-enter and deepen UTP Federal Weaver #1 to a total measured depth of 10,800' or true vertical depth of 10,150'. The objective is the Mississippian formation.

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 Robert Grady TITLE REGION MANAGER DATE 7-19-74

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Le. Cutry
PMB

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

5. Lease Designation and Serial No.
Utah U-0147105

6. If Indian, Allottee or Tribe Name
None

7. Unit Agreement Name
None

8. Farm or Lease Name

CSO-FEDERAL WEAVER

9. Well No.
1

10. Field and Pool, or Wildcat
Wildcat

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

Sec. 28-T26S-R22E

12. County or Parrish 13. State
Grand Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL DEEPEN PLUG BACK

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

2. Name of Operator
CITIES SERVICE OIL COMPANY

3. Address of Operator
1600 Broadway, Suite 900, Denver, Colorado 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface **1637' FNL & 1467' FEL, Section 28-T26S-R22E U-24586**
At proposed prod. zone **624' FEL & 1856' FSL, Section 29-T26S-R22E U-0147105**

*NESW
NE*

14. Distance in miles and direction from nearest town or post office*
4 miles S. SW of the city of Moab, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
None

16. No. of acres in lease
1811.92

17. No. of acres assigned to this well
160

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

19. Proposed depth
TVD 10,150': MD 10,800'

20. Rotary or cable tools
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
4757 GR

MISS

22. Approx. date work will start*
November 15, 1974

23. **PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
* 24 "	20"	90#	30'	3 yards redi-mix
* 17 1/2"	13 3/8"	48#	312'	365 sks w/2% CaCl ₂
* 12 1/4"	9 5/8"	40#	4238'	560 sks w/12 1/2#/sk. Gilsonite, 100 sk Class "C"
8 1/2"	5 1/2"	17#	T.D.	500 sk Class "G"

*Normal Approval:
Conditional upon receiving
3 more copies of each. (Checkle)*

* Casing is cemented in the well.

Proposed program is to re-enter and deepen UTP Federal Weaver #1 to a total measured depth of 10,800' or true vertical depth 10,150'. The objective is the Mississippian formation.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE AUG 1 1974

Robert B. Grady

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 *Robert Grady* Title **REGION MANAGER** Date **7-19-74**
(This space for Federal or State Office use)

Permit No. _____ Approval Date _____

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



PMB

CITIES SERVICE OIL COMPANY

900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Telephone: 303-892-0263

July 29, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Mr. Paul W. Burchell
Chief Petroleum Engineer

Re: Cities Service Oil Company
Application for Permit to
Deepen
UTP Federal Weaver #1
Section 28-T26S-R22E
Grand County, Utah

Dear Sir:

Enclosed for approval is Application for Permit to Deepen (Form 9-331C) and supporting material.

Designation of Operator (Form 9-1123) from Union Texas Petroleum for lease Utah 0147105 will be forwarded as soon as it is received.

Please advise if any further information is required.

Sincerely,

Carl L. Leshner,
Drilling Engineer
Production Division
Western Region

CLL/mm
Attachments

cc: Bureau of Land Management, 284 South First, West, P. O. Box 1327,
Monticello, Utah 84535
United States Department of the Interior, Geological Survey,
Branch of Oil and Gas Operations, 8416 Federal Building, Salt Lake
City, Utah 84111, Attention: Mr. Gerald R. Daniels

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: USA-U-0147105

and hereby designates

NAME: Cities Service Oil Company
ADDRESS: 900 Colorado State Bank Building, Denver, Colorado 80202

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Grand County, Utah
T 26S: R 22E: SL Meridian
Sec. 29, E/2

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ALLIED CHEMICAL CORPORATION

Attorney-in-Fact

(Date)

788 Lincoln Tower Building

Denver, Colorado (Address) 80203



Union Texas Petroleum Division

ALLIED CHEMICAL CORPORATION

SUITE 788 LINCOLN TOWER • 1860 LINCOLN STREET • DENVER, COLORADO 80203 • (303) 534 8221

August 12, 1974

AG
Well File

United States Geological Survey
125 South State Street
Salt Lake City, Utah 84111

Re: UT-0147105
E/2 Section 29, 26S-22E
Grand County, Utah
Moab Area
UT-429

Attention: Jerry Daniels

Gentlemen:

We are advised that Cities Service Oil Company has submitted material related to their re-entry of a hole located in S/2 N/2 Section 28, 26S-22E. Cities Service owns a lease on the S/2 N/2 Section 28, however, we own a lease covering the E/2 Section 29, 26S-22E and the well is to bottom on our lease.

We attach three copies of designation of operator covering the E/2 Section 29 and request it be incorporated into the other material submitted by Cities Service. Should there be any questions, please advise.

Yours very truly,

ALLIED CHEMICAL CORPORATION

John F. Welch
Landman

JFW/js

Enclosures

cc: Virgil W. Cleveland-w/attachment
Cities Service Oil Company
900 Colorado State Bank Building
Denver, Colorado 80202



PI [handwritten initials]

CITIES SERVICE OIL COMPANY

900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Telephone: 303-892-0263

September 3, 1974

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Paul W. Burchell
Chief Petroleum Engineer

Re: Cities Service Oil Company
Application for Permit to
Deepen
UTP Federal Weaver #1
Section 28-T26S-R22E
Grand County, Utah

Dear Sir:

Reference letter of July 29, 1974, enclosed is the Designation of Operator Form 91123 from Union Texas Petroleum for Lease Utah 0147105.

Please advise if further information is required.

Sincerely,

W. Randolph Hicks
Drilling Engineer
Production Division
Western Region

WRH/mm
Attachments

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Test well		5. LEASE DESIGNATION AND SERIAL NO. U-147105 & U-24586
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
3. ADDRESS OF OPERATOR 1600 Broadway, #900, Denver, Colorado 80202		7. UNIT AGREEMENT NAME None
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467 FEL 4 miles SSW of City of Moab, Utah		8. FARM OR LEASE NAME CSO-Federal Weaver
14. PERMIT NO. 43-019-30113	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4757 GR	9. WELL NO. 1
		10. FIELD AND FOOT, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28-T26S-R22E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input 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 Operation</u>	

(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.)*

9/1/74 to 9/30/74

Waiting on rig

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

SIGNED J. O. Scott TITLE Engineering Manager DATE September, 1974

(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
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Test well		5. LEASE DESIGNATION AND SERIAL NO. U-147105 & U-24586
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
3. ADDRESS OF OPERATOR 1600 Broadway, #900, Denver, Colorado 80202		7. UNIT AGREEMENT NAME None
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467 FEL 4 miles SSW of City of Moab, Utah		8. FARM OR LEASE NAME CSO-Federal Weaver
14. PERMIT NO. 43-019-30113	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4757 GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28-T26S-R22E
		12. COUNTY OR PARISH 13. STATE Grand Utah

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

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

(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.)*

10/1/74 to 10/31/74

Waiting on rig.

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

SIGNED J.O. Scott TITLE Engineering Manager DATE October, 1974

(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
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

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

1. OIL WELL GAS WELL OTHER Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
1600 Broadway, #900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1637' FNL and 1467 FEL
4 miles SSW of City of Moab, Utah

14. PERMIT NO. 43-019-30113

15. ELEVATIONS (Show whether DF, NT, OR, etc.)
4757 GR

5. LEASE DESIGNATION AND SERIAL NO.
U-147105 & U-24586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
CSO-Federal Weaver

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28-T26S-R22E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

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

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

11/13 to 11/26/74
Set 9-5/8" casing on slips nipples up Shaffer double Rams and bag type BOP stack
Cleaned out 9-5/8" casing and set plug up to 7,100'
Dressed cement and whipstocked hole @ 7,176'
11/26 to 11/30/74
Drilling to 7,487'

18. I hereby certify that the foregoing is true and correct
SIGNED J. O. Scott TITLE Engineering Manager DATE November, 1974

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT WITH INDICATE
(Other side) OR

PJ

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 Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
1600 Broadway, #900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1637' FNL and 1467 FEL
4 miles SSW of City of Moab, Utah

14. PERMIT NO. 43-019-30113

15. ELEVATIONS (Show whether DT, RT, CR, etc.)
4757 GR

5. LEASE DESIGNATION AND SERIAL NO.
U-147105 & U-24586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
CSO-Federal Weaver

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28-T26S-R22E

12. COUNTY OR PARISH 18. STATE
Grand Utah

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

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

5-31-75 to 6-20-75
Run 2-3/8" tubing with packer in hole, perforate and start testing perforations.

18. I hereby certify that the foregoing is true and correct
SIGNED Robert Brady TITLE DRILLING COORDINATOR DATE December, 1975

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

U-147105 & U-24586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

None

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

CSO-Federal Weaver

9. WELL NO.

1

10. FIELD AND FOOL, OR WILDCAT

Wildcat

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

Section 28-T26S-R22E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

1. OIL WELL GAS WELL OTHER Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
1600 Broadway, #900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1637' FNL and 1467' FEL
4 miles SSW of City of Moab, Utah

14. PERMIT NO.
43-019-30113

15. ELEVATIONS (Show whether DT, AT, GR, etc.)
4757 GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Monthly Operation

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

4-30-75 to 5-31-75
Drilling to 10,721'. Plug back to 10,164'
Rig up completion unit.

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

SIGNED

Robert Shady

TITLE DRILLING COORDINATOR

DATE December, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

P.D. PI

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.
U-147105 & U-24586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
CSO-Federal Weaver

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28-T26S-R22E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

1. OIL WELL GAS WELL OTHER Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
1600 Broadway, #900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1637' FNL and 1467' FEL
4 miles SSW of City of Moab, Utah

14. PERMIT NO.
43-019-30113

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4757 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REMAINING 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 Operation</u>	

(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.)*

3-31-75 to 4-30-75 Drilling to 10,613'

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

SIGNED Robert Brady TITLE DRILLING COORDINATOR DATE December, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Test well		5. LEASE DESIGNATION AND SERIAL NO. U-147105 & U-24586
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
3. ADDRESS OF OPERATOR 1600 Broadway, #900, Denver, Colorado 80202		7. UNIT AGREEMENT NAME None
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467 FEL 4 miles SSW of City of Moab, Utah		8. FARM OR LEASE NAME CSO-Federal Weaver
14. PERMIT NO. 43-019-30113	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4757 GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28-T26S-R22E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input 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 Operation</u>	
(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.)*

11/30 to 12/31/74
Drilling to 8,625'

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

SIGNED J. O. Scott TITLE Engineering Manager DATE December, 1974

(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
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

788

5. LEASE DESIGNATION AND SERIAL NO.
Utah U-147105 & U-24586
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
1600 Broadway, #900, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1637' FNL and 1467 FEL
4 miles SSW of City of Moab, Utah

14. PERMIT NO.
43-019-30113

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4757 GR

None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
CSO - Federal Weaver

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 28-T26S-R22E

12. COUNTY OR PARISH
Grand

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 Operation</u>	

(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.)

1/31 to 2/28/75
Drilling to 9,811'

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

SIGNED J. O. Scott TITLE Engineering Manager DATE March 14, 1975

(This space for Federal or State office use)

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

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver 1		Western
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	SAFE NUMBER
Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
1/30/75 9,669'	<p>76 days Present Depth: 9,669' (28'/12-1/2 hrs) TIGHT HOLE Cost: \$613,169. Present Operations: Circulate @ 9,645 Remarks: Mud wt 10.1#, vis 52, WL 4.0, C1 285,500, solids 4%, oil 8%, pump 600-900 psi. Bit #18 MD331, 544'/115-1/4 hrs. Drilling 12-1/2 hrs. Drilled to 9,669' picked up to make connection. Hole sloughed, had 50' fill. 11-1/2 hrs trying to work back to bottom, fair amount of shale over shaker, now circulating and reaming at 9,645'. Will increase mud wt. DC: \$8,628.</p>	
1/31/75 9,669'	<p>77 days Present Depth: 9,669' TIGHT HOLE Cost: \$619,995. Present Operations: Washing fill @ 9,630' Remarks: Mud wt 10.0#, vis 47, WL 6.4, C1 169,000 ppm, solids 4%, oil 8%. Bit #18 MD 331, 544'/115-3/4 hrs. Pump 750 psi. Circulate and wash at 9,650 for 3-1/2 hrs, no progress. POOH laid down 46 joints grade E DP, picked up 46 joints Grade G DP, installed wear bushing in head, slipped and cut drilling line. RIH started washing and reaming down tagged fill 9,629'. Mud out from 10.0# to 8.8# with bottoms up.</p>	
2/1/75 9,669'	<p>78 days Present Depth: 9,669' TIGHT HOLE DC: \$7,548 CC: \$627,543 Present Operations: Trip Remarks: Mud wt 10.3#, vis 52, WL 2.2, C1 169,000 ppm. Washed and reamed to 9,649' several times, hole keeps sloughing. POOH to change bottom hole assembly.</p>	
2/2/75 9,669'	<p>79 days Present Depth: 9,669' TIGHT HOLE DC: \$6,226 CC: \$633,769 Present Operations: Washing fill at 9,560' Remarks: Mud wt 10.4#, vis 52, WL 4.0, C1 169,000 ppm, oil 6%, solids 5%. Bit #19 S21G, pump 650 psi, 45 rpm, 10,000#. POOH, removed dyna drill and diamond bit, picked up tooth bit, RIH fill at 9,269', washed out to 9,650' 3 times, hole still sloughing. 3 times as much shale coming over shaker now.</p>	
2/3/75 9,669'	<p>80 days Present Depth: 9,669' TIGHT HOLE CC: \$639,969. Present Operations: Washing fill at 9,652' Remarks: Mud wt 10.7#, vis 50, WL 4.0, C1 170,000 ppm, solids 6.5%, oil 6%, pH 8.3. Bit #19 S21G. Washing and reaming 22-1/2 hrs. Repair rig 1/2 hr. Service rig 1 hr. Wash down 9,652' several times, hole sloughing.</p>	

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver 1		Western
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
2/4/75 9,672'	<p>81 days Present Depth: 9,672' (3¹/₃/₄ hrs) TIGHT HOLE Cost: \$649,167. Present Operations: Circulate and condition hole @ 9,672' Remarks: Mud wt 10.6#, vis 50, WL 1.5, Cl 227,700 ppm (make up water 157,000 ppm), solids 7%, oil 5%, pH 10.0. 2-1/4# flo-sol per bbl. Bit #19 Reed S21G, 3¹/₃/₄ hr. Pick up above shale section, 5' fill on bottom, circulate out, pick up above shale section, no fill. Drilling 3/4 hr. Wash and ream 17-1/2 hrs. Circulate and condition 4-3/4 hrs. Rig service 1/2 hr. Lay down and pick up DP 1/2 hr.</p>	
2/5/75 9,674'	<p>82 days Present Depth: 9,674 (2¹/₁ hr) TIGHT HOLE Cost: \$655,328. Present Operations: Reaming and washing to total depth @ 9,658' Remarks: Mud wt 10.7#, vis 47, WL 4.8, oil 6%, solids 6%, Bit #19 Reed S21G, 5¹/₂ hrs. Circulate and condition 3 hrs. Pull 10 stands 3/4 hrs (260,000# pull). Rig repair 1/2 hr. WIH 1/2 hr, (20' fill). Wash to total depth 1 hr. Drilling 2¹/₁-1/4 hrs. CBU 2 hrs. Start out of hole 1 hr. Rig repair 1/2 hr. POH 3-1/2 hrs. Cut drill line 3/4 hr. Pick up dyna drill 1 hr. Start in hole 3/4 hr. Rig repair 1-1/2 hrs. GIH 2-1/2 hrs (45' fill). Ream and wash 9,629-9,658' 3-1/2 hrs.</p>	
2/6/75 9,682'	<p>83 days Present Depth: 9,682' (6¹/₅ hrs) TIGHT HOLE Cost: \$660,354. Present Operations: Drilling Remarks: Mud wt 10.6#, vis 42, WL 4.0, salt 227,700 ppm, solids 6% oil 6%, pH 10.8. Ream to total depth (6,648-72') 3 hrs. Drill 9,674-78' 2 hrs. Condition mud 1 hr. Ream and wash to total depth 2 hrs. Drill 9,678'81' 2 hrs. Work thru tight spot 9,661', max pull 330,000# 1 hr. Drill, no progress 1/2 hr. Work thru tight spots 4-1/2 hrs. Lost pump pressure, pulled out of hole 30 stands (wash out) 5 hrs. Drill bridges to total depth 2-1/2 hrs. Drill 9,781-82' 1/2 hr.</p>	
2/7/75 9,733'	<p>84 days Present Depth: 9,733' (51¹/₂₁-3/4 hrs) Drilling 3 to 4 FPM Cost: \$667,720. TIGHT HOLE Present Operations: Drilling Remarks: Mud wt 10.7#, vis 43, WL 2.8, salt 303,700 ppm, pH 10.0, solids 7%, oil 5%. Drilling 4 hrs. Clean shale pit, service rig and clean to total depth 1-1/4 hrs. Drilling 9-3/4 hrs. Ream and clean to total depth each 1 hr. Drilling 8 hrs.</p>	

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
2/8/75	9,782'	<p>85 days Present Depth: 9,782' (49'/22-1/2 hrs) TIGHT HOLE Cost: \$674,996. Present Operations: Drilling Remarks: Mud wt 9.7#, vis 49, WL 2.4, salt 300,300 ppm, pH 12.0, solids 7%, oil 7%. Drilling 22-1/2 hrs. Rig service 1/4 hr. Rig repair 1-1/2 hrs.</p>
2/9/75	9,803'	<p>86 days Present Depth: 9,803' TIGHT HOLE Cost: \$681,592. Present Operations: RIH open ended. Remarks: Mud wt 10.6#, vis 47, WL 2.8, pH 11.5, Cl 316,000 ppm, solids 6%, oil 6%. Bit #18RR, MD 331, 9,674-9,803/129'/58-3/4 hrs. Drilling 9-1/2 hrs. Service rig 1/2 hr. Circulate 3 hrs. Survey, 4 POOH 1/2 hr. Repair rig, change swivel 1 hr. Lay down Dyna Drill, picked up mill toothed bit, dropped bit in hole (bit dropped thru bit breaker while making it up-S21 G RR) 1 hr. Repair rig worked on cathead and tong line 1 hr. Trip in open ended 3-1/2 hrs.</p>
2/10/75	9,803'	<p>87 days Present Depth: 9,803' TIGHT HOLE Cost: \$688,948. Present Operations: Trip Remarks: Mud wt 10.6#, vis 47, WL 2.8, pH 11.5, solids 6%, oil 6%. Survey: 9,803 2-1/2° N5E. Trip in open ended, tagged fish @ 7,900' 1 hr. Wash on top of fish, attempt to screw in, no success 2 hrs. Circulate and condition hole 8 hrs. POOH, bottom of bit sub shows possible thread marks 5 hrs. Ran junk shot, stopped 4,437, could not work thru, POOH with junk shot 2 hrs. RIH with tapered box 8-1/2 OD, worked thru tight spot 4,400-4,500, hit tight spot 6,850, worked 2 hrs still tight, POOH and picked up bit, now on trip in to condition hole BHA, Bit #47J, bit sub, drill collar stabilizer, jars, 15 joints heavy-wate drill pipe 6 hrs.</p>
2/11/75	9,803'	<p>88 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$695,279. Present Operations: Pulling out of hole for bit sub Remarks: WIH with bit, tag fish @ 7,900'. Circulate and condition 2-1/2 hrs. Work fish to 9,743' 5-1/2 hrs. Repair rig 2 hrs. Work fish to 9,791' 1 hr. Circulate and wait on Schlumberger 3 hrs. Rig to log and run Gamma-Neutron logs 3-1/2 hrs. Work off bottom 1-1/2 hrs. POH 2 hrs. Survey MD 9,803' TVD 9,138', angle 2-1/2°, north 5° west, coord, north 90.79', east 39.87'.</p>

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
2/12/75	9,803'	<p>89 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$703,570. Present Operations: POH with junk shot on DP Remarks: POH to pick up bit sub to try to screw onto bit. WIH, took wt 9,756, work and wash to fish @ 9,791 1-1/2 hrs. Work and wash on top fish, no pump pressure inc. 2 hrs. POH 5 hrs. Bit shows marks on OD indicated running on shank and outside cutter of cone. Pick up junk shot on DP and GIH 5 hrs. Set on fish and circulate and rig to fire 1-1/2 hrs. Ran fire detonator, no indication of fire from surface 1 hr.</p>
2/13/75	9,803'	<p>90 days Present depth 9803' (0') TIGHT HOLE Present Operations: POH/impression block, no marks on block. Remarks: Mud wt 9.9# - vis 49, WL 2.1, salt 314,600 ppm pH 10.8, solids 7.5%, oil 16%, POH with junk shot (misrun) 3 1/2 hrs. Lay down 6 DC's 1 1/2 hrs. W.I.H with bit #21 - 3 1/2 hrs. Wash 18' fill 1/2 hr. Circ & conditioned 2 hrs. POH (no marks on bit) 3 1/2 hrs. Pickup impression block and GIH 4 1/2 hrs. Wash to fish (7' fill) 1 hr. Set weight on fish & POH 4 hrs. Cost: \$709,514</p>
2/14/75	9,803	<p>91 days Present Depth: 9,803' TIGHT HOLE Cost: \$715,220 Present Operations: Trip out with mill Remarks: Mud wt 10.1#, vis 45, YP 9, Gel 5-10, WL 4.1, Cl 314,000 ppm, pH 10.5, solids 7%, oil 5-1/2%. Trip out with impression block 3-1/2 hrs. No marks on impression block. Service rig 1/2 hr. Trip in with box tap 4 hrs. Washed out 10' fill, circulate and work on fish, fish moved down hole 10' no pressure increase no torque 3 hrs. POH 3-1/2 hrs. Box tap shows evidence of bit teeth but is probably upside down. Trip in with mill 4-1/4 hrs. Washed down 5', milled on fish, fish moved down hole 5', should be on bottom now 5-1/4 hrs. Started out of hole with mill.</p>

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		AFE NUMBER
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
Federal Weaver No. 1	Western	
Grand County, Utah	Wildcat	9-4370014-4
2/15/75 9,803'	<p>92 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$720,946 Present Operations: Washing over with junk basket Remarks: Mud wt 10.6#, vis 52, WL 4.6, salt 316,000 ppm, pH 10.8, solids 7%, oil 5%. Mill on fish 1/2 hr. POH with mill, teeth marks on face of mill 4 hrs. Making up junk shot 1-1/4 hrs. WIH 3-1/4 hrs. Washing and working to fish 2 hrs. Rig detonator to fire shot 1 hr. Junk shot fired, pull wire line 1/2 hr. POH 4 hrs. Pick up junk basket 1 hr. WIH 4 hrs. Mill over junk 2-1/2 hrs.</p>	
2/16/75 9,803'	<p>93 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$726,632 Present Operations: GIH with magnet Remarks: Mud wt 10.4#, vis 46, WL 4.9, total salt 316,600 ppm, pH 10.2, solids 7%, oil 5%. Mill on junk 2-1/2 hrs. POH with basket, rotary shoe worn on bottom 3/8" on outside, 3 ring cut on outside shoe 1', 3' and 4' from bottom, 1/4" deep 3-1/2 hrs. WIH with magnet 4 hrs. Wash to fish(8') 3/4 hr. POH 4-1/4 hrs. Recover full magnet load (parts of cones and bearings), cut drill line 1-1/4 hrs. WIH with magnet 3-3/4 hrs. Wash to fish 1/2 hr. POH, recover full magnet load (parts of cones, bearings and small pieces of junk 5-1/2 hrs.</p>	
2/17/75 9,803'	<p>94 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$741,348 Present Operations: POH with mill Remarks: Mud wt 10.7#, vis 44, WL 4.2, total salt 306,000 ppm, solids 7%, oil 5%. POH with magnet (recover most of 1 cone, bearings and small pieces of shank 1-1/4 hrs. WIH with magnet 3-1/4 hrs. Rig service 1/2 hr. Wash to fish 1-1/2 hrs. POH with magnet 4-1/4 hrs. Recover very small pieces junk, cut drill line 1-1/2 hrs. GIH with flat bottom mill 2 hrs. Circulate out trip gas 1-1/2 hrs. Mill on fish with small amount progress 5-3/4 hrs. CBU, recover iron cuttings 1-1/2 hrs. Work off total depth with mill 1 hr. POH 1/4 hr.</p>	

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Final Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. On significant wells the Tulsa Office may request Interim Reports as a sheet is filled out.

LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
2/18/75 9,803'	<p>95 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$747,214 Present Operations: POH with basket Remarks: POH with mill, mill wear shows fish in 1 piece 3-1/2 hrs. Lay down mill and pick up junk shot 1-1/2 hrs. WIH with junk shot 3 hrs. Wash to fish 1 hr. Rig to shoot with wire line detonator and pull wire line 1-1/2 hrs. POH 5 hr. Making up junk basket 1-1/2 hrs. GIH 3 hrs. Mill on junk 3-3/4 hrs. Went over fish 18", POH 1/4 hr.</p>	
2/19/75 9,803'	<p>96 days Present Depth: 9,803' (0') TIGHT HOLE Cost: \$753,080. Present Operations: GIH with magnet, laying down bad DP Remarks: POH with junk basket and DP parted 7 stands down in Grade G DP, drop 180', 1/4 hr. Pick up overshot, GIH and catch fish, pull 310,000# off bottom 2-1/4 hrs. POH 5 hrs. Break down junk basket, rotary shoe worn out, recover bit in basket but unable to remove, will cut basket off fish, cut drill line 1-1/4 hrs. GIH with magnet 14 hrs.</p>	
2/20/75 9,806'	<p>97 days Present Depth: 9,806' (3'/6-1/2 hrs) TIGHT HOLE Cost: \$762,803 Present Operations: Drilling w/Bit #22 Sec H77, 3'/6-1/2 hrs. Remarks: Mud wt 10.8#, vis 50, WL 1.9, total salt 305,000 ppm, pH 10.5, solids 10%, oil 3%. WIH with magnet and wash 30' to total depth, POH and recovered 2 pieces iron (1-1/2" X 1/2" X 1/2"), WIH with Bit #22, wash 30' to bottom, first 30 min on bottom, DP torque indicating junk on bottom. Wash junk above bit (either caught in junk basket or back in wall). No junk on bottom after connection, presently drilling 1'/hr.</p>	
2/21/75 9,809'	<p>98 days Present Depth: 9,809' (3'/10-3/4 hrs) TIGHT HOLE Present Operations: Trip in hole with magnet Remarks: Mud wt 10.3#, vis 46, WL 1.6, Cl 222,000 ppm, solids 3%, oil 4-1/2%. Bit #22 8-1/2 H-77, 9,803-9,809/6'/17-3/4 hrs. Drilled 9,806-09', POOH, lost all three cones in hole, had 2 hands full of metal in junk basket. Picked up magnet now on trip in hole.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		AFE NUMBER
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		9-4370014-4
2/22/75 9,809'	<p>99 days Present Depth: 9,809' (0') TIGHT HOLE Cost: \$778,108 Present Operations: POH with magnet Remarks: Mud wt 10.9#, vis 48, WL 2.0, pH 10.5, total salt 231,000 ppm, solids 3-1/4%, oil 4%, LCM 4%. WIH with magnet, wash 20' to bottom, POH, recovered 2 bit cones, 3 sample sacks junk (15 roller and 4 ball bearings). WIH with magnet, wash 5' to bottom, POH, recovered 2 pieces metal (2" X 1/2" X 1/2") and 23 roller and 9 ball bearings. WIH with magnet straightening DP and inspecting.</p>	
2/23/75 9,811'	<p>100 days Present Depth: 9,811' (2'/1 hr) TIGHT HOLE Cost: \$785,609 Present Operations: POH with magnet Remarks: Mud wt 10.9#, vis 48, WL 2.0, pH 10.5, total salt 231,000 ppm, solids 3.5%, oil 4%. Bit #23, 2'/1 hr. Recovered 6 ball bearings and 14 roller bearings in junk basket on magnet run, 5' fill on bit run, no show on junk bottom. Recovered 12 small pieces junk, 4 roller and 7 ball bearings in junk basket on bit run. WIH with magnet, now POH.</p>	
2/24/75 9,811'	<p>101 days Present Depth: 9,811' (0') TIGHT HOLE Cost: \$793,338 Present Operations: Laying down 9-5/8" BP and packer Remarks: Mud wt 10.8#, vis 46, WL 2.2, pH 10.5, total salt 231,000 ppm, solids 3-1/2%. POH with magnet, no junk on magnet, recovered junk in junk basket, 1 piece 1-1/8" X 1-5/8" X 3/8". Lay down magnet and junk basket and 125 jts grade E DP for straightening and inspection. Pick up 9-5/8" ret BP and packer, attempt to set 4,000', no set. Pull 1 std, attempt to set, no set. POH top sub on packer unscrewed, left packer and BP, WIH, screw on to packer, set packer, attempt to unseat packer, unscrew from packer, screw in and unseat. Pull to 3,526', packer on BP set, work free, POH, upper slip ring broken, left 1/2 slip in hole (2-1/4" X 1-1/8" X 1-1/4").</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
2/25/75	9,811'	<p>102 days Present Depth: 9,811' TIGHT HOLE Cost: \$800,499 Present Operations: Laying down DP for inspection Remarks: Mud wt 10.7#, vis 46, WL 2.2, pH 10.4, cake 2/32", salt 231,000 ppm, solids 3-1/2%, oil 4%, 4% asbestos. Pick up 123 jts 4-1/2 grade # inspected, POH, pick up 9-5/8" BP. WIH @ 3,954', POH, pick up packer, packer @ 1,997'. Test casing 1,997-3,954', 1000#, no leak, set packer @ 1,044' - 571' - 285' - 100'. Test to 1000# no leaks, set packer @ 60' and 30'. Test 300#, no leaks, circulate above 30', 4.3 BPM/100#. Lay down packer, 56 stds in derrick needs inspection.</p>
2/26/75	9,811'	<p>103 days Present Depth: 9,811' (TIGHT HOLE) Cost: \$806,902 Present Operations: Nippling down BOP Remarks: Laid down 32 stds of DP for inspection. Installed gauge on 13-3/8 casing. Pumped in 9-5/8 X 13-3/8 annulus at 250 psi, estab injection rate 4.6 BPM @ 556 psi. Picked up 45 jts DP and stood in derrick. Laid down 74 jts of DP, 15 jts of heavy wate DP. Have now completed laying down DP for inspection. Picked up 56 stds DP. Clean up BOP and cellar, remove drilling nipple, pulled wear bushing, nipped down lines and prep to remove BOP.</p>
2/27/75	9,811'	<p>104 days Present Depth: 9,811' TIGHT HOLE Cost: (DC) \$10,654 (CC) \$817,556 Present Operations: Nippling up BOP Remarks: Picked up BOP removed casinghead spool, ran collar log to 270'. Ran 9-5/8 spear set at 45' could not remove slips, removed casing slips and packing. Ran 9-5/8 spear set at 45', ran free point to 270' pipe free. Ran string shot and attempted back off at 237' failed. Tried to put torque in pipe, pipe turning, reset spear at 122' pipe turned, reset spear at 210' held torque, fired string shot at 237' backed off DP above spear. Screwed back in pulled spear and tightened connections, set spear at 210' and backed off 9-5/8 at 237'. Pulled 5 jts and 16' of 9-5/8 40#. Ran 6 jts 9-5/8 43.5# N-80 LTJC casing (drifted to 8.598'). Screwed in tightened with 9,000 ft lb torque. Set 9-5/8 slips with 100,000#. Installed packing rings and spool, ring gasket failed, removed spool, replaced ring gasket, installed spool and BOP, now nipping up BOP. Cost: (DC) \$10,654 (CC) \$817,556.</p>

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COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
2/28/75	9,811'	<p>105 days Present Depth: 9,811 TIGHT HOLE DC: \$8,944 CC: \$826,500 Present Operations: Picking up 4-1/2 drill pipe and running in hole with magnet. Remarks: Nippled up BOP, install wear bushing and drilling nipple 7-1/2 hrs. RIH with DP, latch bridge plug, reset bridge plug at 255' 4-1/2 hrs. Test casing 1,000 psi, reset BP at 210', test casing and blind rams to 2,500 psi, retrieve bridge plug 4-1/2 hrs. Ran 9-5/8 packer set at 30', test pipe rams and manifold 2,500 psi, hydril 2,000 psi, pull packer 1-3/4 hrs. Pick up magnet, junk basket, 1 DC heavy wate DP 2-1/2 hrs. Picking up 4-1/2 DP and going in hole with magnet 3-1/2 hrs. All DP, DC, and heavy wate DP has been straightened and inspected.</p>
3/1/75	9,811'	<p>106 days Present Depth: 9,811' TIGHT HOLE DC: \$10,919 CC: \$837,419 Present Operations: Trip in with bit Remarks: Mud wt 10.3#, vis 41, WL 3.0, pH 10.5, cake 2/32", C1 305,000, solids 6%, oil 3-1/2%. Bit #23 H-77 RR. Picking up 4-1/2 DP and run in hole to 8,110' 3-3/4 hrs. Circulate and condition mud, circulate out gas cut mud 4-1/2 hrs. Continue RIH, pick up 4-1/2 Grad G DP 3 hrs. Condition mud and wash out 15' fill 3-1/2 hrs. POOH, no recovery on magnet, recovered 12 pieces in junk basket and spring off bridge plug 4-1/2 hrs. Lay down magnet, pick up bit, install DP rubbers and RIH 4-1/2 hrs.</p>
3/2/75	9,825'	<p>107 days Present Depth: 9,825' (14'/10 hrs) TIGHT HOLE DC: \$14,081 CC: \$851,500 Present Operations: Drilling (Lm) Remarks: Mud wt 10.2#, vis 43, WL 4.4, pH 10.5, cake 2/32", C1 252,450 ppm, solids 4%, oil 3.5%. Bit #23RR, 8-1/2" H-77, 9,811-9,816-5'/3 hrs. Bit #24 MD37, 9'/ 7 hrs. Pump 1200 psi, 15-20,000#. Complete trip 15' fill 1 hr. Drill 9,811-16' 3 hrs. CBU 1-1/2 hrs. POOH for dyna drill, no junk recovery 4-1/2 hrs. Change drilling assembly, pick up dynal drill and diamond bit 1-1/4 hrs. RIH 1-1/4 hrs. Cut drilling line 1 hr. Complete trip in hole 2 hrs. Wash 15' fill to bottom, trip gas 2,000, mud cut 10.2-8.6 for 15 min 3/4 hr. Drilling, background gas less than 10 units 7 hrs.</p>

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY-PARISH-STATE-PROVINCE		AFE NUMBER
Federal Weaver No. 1		Western
Grand County, Utah		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
3/3/75 9,852'	<p>108 days Present Depth: 9,852 (27'/13-1/2 hrs) TIGHT HOLE DC: \$17,252 CC: \$868,752 Present Operations: Trip with new bit Remarks: Mud wt 10.3#, vis 40, WL 2.6, pH 10.5, Cl 300,300 ppm, solids 5%, oil 6%. Bit #24 MD 37, 9,816-9,852-33'/20-1/2 hrs. Bit #25 MD 331. Drilling 9 hrs. Service rig 1/4 hr. Drilling to 9,852', pressure increased 4-1/2 hrs. POOH 4 hrs. Change Dyna drill and bit (Stator in old dynal drill worn out) bit plugged with rubber 2 hrs. Trip in hole 3-1/2 hrs.</p>	
3/4/75 9,911'	<p>109 days Present Depth: 9,911' (59'/23-1/4 hrs) TIGHT HOLE DC: \$12,534 CC: \$881,276 Present Operations: Drilling (Lime) Remarks: Mud wt 10.2#, vis 41, WL 2.4, pH 10.5, Cl 301,950, solids 5%, oil 6%. Bit #25 MD 331, 59'/23-1/4 hrs. Pump 1300 psi, 25-30,000#. Complete trip in hole 1/4 hr. Wash 35' to bottom, trip gas 10,000 1/4 hr. Drilling 9852-9877 8-1/2 hrs. Service rig 1/4 hr. Drilling 9877-9811, 40 units background 14-3/4 hrs.</p>	
3/5/75 9,958'	<p>110 days Present Depth: 9,958' (47'/23-1/2 hrs) TIGHT HOLE DC: \$9,866 CC: \$891,142 Present Operations: Drilling (Lime) Remarks: Mud wt 10.4#, vis 44, WL 2.6, cake 2/32", pH 11.0, Cl 305,250 ppm, solids 5%, oil 5%. Bit #25 MD 331, 106'/46-3/4 hrs Pump 1350 psi, 25,30,000#. Checked pump pressure at 40 spm, 400 psi. Service rig 1/2 hr. Drilling 23-1/2 hrs.</p>	
3/6/75 10,007'	<p>111 days Present Depth: 10,007' (49'/23-1/4 hrs) TIGHT HOLE CC: \$898,698 Present Operations: Drilling (Limestone) Remarks: Mud wt 10.5#, vis 39, WL 3.2, Gel 2-4, salt 208,550 ppm, solids 5%, oil 5%. Drilling 23-1/4 hrs. Service rig 3/4 hrs.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver #1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/7/75	10,028'	<p>112 days Present Depth: 10,028 (21'/12 hrs) TIGHT HOLE Cost: \$908,632 Present Operations: CBU Remarks: Mud wt 10.5#, vis 40, WL 2.0, salt 313,500 ppm, pH 11.0, solids 5%, oil 5%. Bit #25 MD 331, 176'/82 hrs. Survey: 10,015 1-3/4^o N20W. Drilling 10,007-10,012' 2-1/2 hrs. Service rig 1-1/4 hrs. Drilling 10,012-10,015' 1-1/4 hrs. Survey 1-1/4 hrs. Service rig 3/4 hrs. Ream to bottom 1/2 hr. Drilling 10,015-10,017' 3/4 hr. Repairing rig 3/4 hr. Drilling 10,017-10,021' 3-1/4 hrs. Pick up to check circulation pressure hole tight 1-1/2 hrs. Circulate and condition hole 1-1/2 hrs. Reaming back to bottom 3/4 hr. Drilling 10,021-10,025' 2 hrs. Working pipe in tight hole 1-3/4 hrs. Drilling 10,025-10,028' 1 hr. Working pipe tight hole 1/4 hr. Drilling 1-1/4 hrs. Working pipe tight hole 1-3/4 hrs.</p>
3/8/75	10,028'	<p>113 days Present Depth: 10,028' Cost: \$917,327 Present Operations: Trip out with magnet Remarks: Mud wt 10.5#, vis 44, WL 2.8, Cl 313,500 ppm, solids 5%, oil 5%. Bit #25 MD 331, 9852-10,028-176'/82 hrs. Circulate bottoms up 2 hrs. Ream and condition hole 3 hrs. Rig up, ran GR-Neutron log thru drill pipe to 9,970 (top of Miss 9,888) 3-1/4 hrs. Attempt to drill ahead-dyna drill stalling 2 hrs. POOH with dyna drill-bit shows evidence of junk on sides and bottom 4-1/4 hrs. Lay down dyna drill, repair rig, pick up magnet and junk basket, cut drilling line 2-1/2 hrs. RIH 2-1/2 hrs. Wash to bottom, circulate and work magnet 1-1/2 hrs. Chaining out of hole with magnet 3 hrs.</p>
3/9/75	10,045'	<p>114 days Present Depth: 10,045' (17'/6 hrs) Cost: \$922,533. Present Operations: Drilling (Limestone with Dolomite) Remarks: Mud wt 10.6#, vis 40, WL 4.4, YP 3, Gel 2-4, PV 18, Cl 313,500 ppm, solids 5%, oil 5%, pH 11.5. Bit #22 RR 8-1/2 OWC, 10,028-10,034-6' 3-1/2 hrs. Bit #26 MD 331, 11' 2-1/2 hrs. Trip out with magnet and junk basket 2 hrs. Service rig 1/2 hr. Finish trip out recovered 1-1/2# iron, 18 pieces mostly bit cone, largest piece 2 X 2 X 3/4 1 hr. Pick up Bit #22RR and junk basket 3/4 hr. Wash to bottom 1 hr. Hours drilling 10,028-34' 3-1/2 hrs. POOH, recovered 6 pieces of iron, 2 pieces 3/4 X 1/2 X 3/8, others smaller 4 hrs. Pick up dyna drill and diamond bit 3/4 hr. Cut drilling line 1/2 hr. RIH 3-1/4 hrs. Ream 8' to bottom 1-3/4 hrs. Drilling 10,034-45', drilling 4' per hr 2-1/2 hrs. Background gas 20 units. Cost: \$922,533.</p>

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver #1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/10/75	10,087'	<p>115 days Present Depth: 10,087' (38'/16-1/2 hrs) Cost: \$941,345 Present Operations: Trip out with fish Remarks: Mud wt 10.5#, vis 45, YP 2.0, Gel 4-8, WL 2.6, salt 313,500 ppm, pH 11.0, solids 5%, oil 5%. Bit #26 MD 331, 10,034-10,087-53'/19 hrs. Drilling 10,045-47' 1/2 hr. Repair rig 1 hr. Drilling 10,047-55' 2-1/4 hrs. Repair rig 1 hr. Drilling 10,055-59' 1-3/4 hrs. Repair rig 1/2 hr. Drilling 10,059-70' 3-3/4 hrs. Working dyna drill pressure increased 300 psi, would not decrease 1 hr. Drilling 10,070-78' 2-1/4 hrs. Working dyna drill, still pressured up 2-1/2 hr. Drilling 10,078-87' 6 hrs. Picked up off bottom, pipe parted while slacking off (200,000# when pipe parted) POOH, pipe parted at 721', ran overshot caught fish, now pulling fish 1-1/2 hrs.</p>
3/11/75	10,098'	<p>116 days Present Depth: 10,098' (11'/4-1/4 hrs) TIGHT HOLE Cost: \$947,157 Present Operations: Trip out with plugged bit Remarks: Bit #26 RR MD 331. POOH 5 hrs. Change bottom hole assembly bit partially plugged with rubber 2 hrs. RIH, laid down 38 jts bent DP and 6 jts bent heavy wate DP 10-1/2 hrs. Drilling 2-1/4 hrs. Tighten and pack swivel 1/2 hr. Drilling 2 hrs. Attempt to unplug bit 1 hr. POOH 3/4 hr.</p>
3/12/75	10,106'	<p>117 days Present Depth: 10,106' (8'/5 hrs) TIGHT HOLE Cost: \$953,557 Present Operations: Circulate with partial returns Remarks: Mud wt 10.5#, vis 48, YP 11, Gel 2-5, WL 3.6, salt 313,500 ppm, pH 11.0, solids 5%, oil 5%, LCM 10%. POOH with plugged bit, SR, unplug bit, check dyna drill 5 hrs. RIH, cut and slip drilling line, wash to bottom, install DP screen 4 hrs. Drilling 10,098-10,106 5 hrs. Working with stalled dyna drill, lost complete returns, pumped 40 bbls no circulation 1-1/2 hrs. Mis 10% LCM in mud pits 1-1/4 hrs. Mixing and pumping mud with 10% LCM, gradually regaining circulation, total mud lost 300 bbls 7-1/4 hrs.</p>
3/13/75	10,107'	<p>118 days Present Depth: 10,107' (1'/4 hrs) TIGHT HOLE Cost: \$962,843 Present Operations: Prep to trip in with new dyna drill and bit. Remarks: Mud wt 10.3#, vis 47, YP 10.0, gel 4-11, WL 5.2, pH 10.5, salt 259,050 ppm, solids 3%, oil 3%, LCM 5%. Bit #26 RR MD 331, 10,107-9'/5 hrs. Spot LCM pill 2-1/2 hrs. Ream and condition, broke circulation, full returns 3-1/2 hrs. Attempt to drill, dyna drill stalling out made 1' 4 hrs. Condition mud and hole 3 hrs. POOH 5 hrs. Repairing drilling jars, plugged with screen and rubber 3 hrs. Clean LCM out of pumps 2-1/2 hrs. Cut and slip drilling line 1/2 hr.</p>

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/14/75 10,114'	<p>119 days Present Depth: 10,114' (7¹/₆ hrs) Cost: \$968,029 Present Operations: Trip with dyna drill Remarks: Mud wt 10.0#, vis 41, YP 4, Gel 3-6, WL 4.6, pH 10 5 salt 259,050 ppm, solids 3%, oil 3%, LCM trace. Bit #27 W7R, 10,107-10,114-7¹/₆ hrs. Trip in to clean out hole and mud system 5 hrs. Circulate with full returns 1 hr. Wash and ream to bottom 2 hrs. Drilling, shaking out LCM 6 hrs. CBU 2 hrs. POOH for dyna drill 4 hrs. Change BHA 1 hr. Cut and slip drilling line 1 hr. Trip in 2 hrs.</p>	
3/15/75 10,114'	<p>120 days Present Depth: 10,114' (0') Cost: \$979,470 Present Operations: Jarring on fish Remarks: No mud check. WIH with dyna drill, wash and ream 15' from total depth, dyna drill stall 8' from total depth. Pipe stuck circulate OK, rotate OK in neutral position. Could not set drill jars to trip. Push 6' to total depth 2 hrs. No movement, no circulation, pipe will rotate, attempt backoff. Backoff with 10 rounds torque, backoff 125,000# 11 hrs. POH 5,859' 1-1/2 hrs. Pick up 12 jts heavy wate DP and screw in sub 3 hr. Cut Drill line 1-1/4 hrs. WIH and screw into fish 2 hrs. Jar on fish 3-1/4 hrs. No movement, fish, diamond bit, stab, dyna drill Monel DC, steel DC, drilling jars, 15 jts heavy wate DP.</p>	
3/16/75 10,114'	<p>121 days Present Depth: 10,114' (0') Cost: \$988,656 Present Operations: Waiting on replacement weight indicator Remarks: Jar on fish and run free point 3-1/4 hrs. Run string shot @ 9,955', back off and pick up approx string wate 3/4 hrs. POH top fish 9,868' (5 jts heavy wate DP on top) 4-3/4 hrs. Made up screw in sub jars etc and cut drill line 1-1/4 hrs. WIH and screw into fish 2-3/4 hrs. Jar on fish with no movement 4-1/4 hrs. Run back off to 10,028' (top of steel DC). Work torque down hole and back off. 2 jts from surface, screw into fish 30' down hole. Pull 240,000# 2 hrs. Run collar locator, stop 9,627' (11 jts heavy wate above fishing jars). Ran free point, stop 9,627', wait on replacement wate indicator 2-1/2 hrs.</p>	

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COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/17/75	10,114'	<p>122 days Present Depth: 10,114' (0') Cost: \$1,001,897 Present Operations: POH with portion of fish (chaining out) Remarks: Waiting on weight indicator 3-1/2 hrs. Install same 3/4 hr. Jar on fish 3 hrs. Rig and run collar locator (1-7/16") 10,090' 1 hr. Rig to run GR (1-11/16") 9,627', would not speed below 9,627' 2 hrs. Jar on fish 4-3/4 hrs. Run string shot (double strength) 9,627', POH 1-1/2 hrs. Ran string shot with weight bar, removed 10,029', work torque to total depth and fired string shot, POH 1-1/2 hrs. Ran collar locator to 9,627' 1-1/2 hrs. POH (chaining out) 4 hrs. Repair rig 1-1/2 hrs. Pull off total depth 235-290,000#. Fire string shot 10,029', crossover on top steel DC.</p>
3/18/75	10,114'	<p>123 days Present Depth: 10,114 (0') Cost: \$1,001,908 Present Operations: Jarring on fish Remarks: Mud wt 10.3#, vis 48, WL 5.6, YP 10, gel 6-11, salt 276,800 ppm, pH 10.8, solids 4%, oil 5%, LCM trace. Repair rig 1/2 hr. POH with portion of fish, recovered 5 jts heavy wate DP and jars, top of fish 10,023' 3 hrs. Cut drilling line 1/2 hr. Pick up tools and lay down 9 jts heavy wate crooked DP 2 hrs. Pick up Kelly hose 1/2 hr. GIH, screw in sub, jars and 17 jts heavy wate 2-1/4 hrs. Circulate and condition (trip gas) screw on fish 4 hrs. Ran GR log on 1" and 5" scale @ 10,026', 9,800' 2-1/4 hrs. Jar on fish 7 hrs. Pulling 340,000 to trip jars, can still turn dyna drill, no circulation, 2200#.</p>
3/19/75	10,114'	<p>124 days Present Depth: 10,114' (0') Cost: \$1,017,919 Present Operations: Attempting backoff Remarks: No mud check, jar on fish 7-1/2 hrs. Circulate @ 200#, 1 BPM thru relief valve in top dyna drill. Ran sinker bar to 10,090' (wire line measurement) 1 hr. Ran GR log 10,090' to 9,800' 2 hrs. Ran 1-7/16" shape charge to baffle plate in nonmagnetic DC and fired same 1-1/2 hrs. Ran free point, pipe free to 10,090' 3-1/4 hrs. Attempt backoff @ 10,093' (crossover sub between dyna drill and nonmagnetic DC) 4 rounds torque, no backoff, ran string shot No. 2, increase wt and got 6 rounds torque, add 5,000# wt, backoff, drilling jars. Screw into fish, WIH with string shot No.3 unable to get to crossover sub, POH with string shot, circulate for 3 min at rate of 3 BPM with 1,000#. Circulation shut off, WIH with sinker bars and spud to baffle plate in nonmagnetic DC. Presently GIH with string shot No. 4.</p>

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/20/75 10,114'	<p>125 days Present Depth: 10,114' (0') Cost: \$1,025,977 Present Operations: CBU and prep to spot acid on fish. Remarks: Mud wt 10.3#, vis 48, total salt 276,800 ppm, solids 4%, oil 5%. WIH with string shot, stop 10,091', POOH, WIH with 1-11/16" shape charge 10,091', fire shot, pressure up on DP, no circulation. WIH with string shot 10,092', fired shot, back off top of sub on top of dyna drill 3 hrs. POOH 5-1/2 hrs. Lay down hars, steel DC, and nonmagnetic DC 3/4 hr. Fish in hole diamond bit 1.40', diamond stab 2.05', dyna drill 24', total fish 28.46', top fish 10,086' (DP measurement) 10,093' (wireline measurement). Cut drill line 1 hr. Pick up wash pipe 2 hrs. Rig repair 1 hr. GIH with wash pipe 4 hrs. Wash over fish and CBU 3-3/4 hrs.</p>	
3/21/75 10,114'	<p>126 days Present Depth: 10,114' (0') Cost: \$1,035,608 Present Operations: Jarring on fish Remarks: Rig and spot 15% HCL acid around wash pipe. Spot 3 bbls outside, wait 15 min, move 5 bbls outside wash pipe, wait 15 min, pull wash pipe to 10,085'. Circulate acid out, POH, pick up screw on sub, jars and 18 joints heavy wate DP. Went by top of fish 10' before screw on, jar on fish 10 hrs. Trip jars with 340,000#-300,000# after jars trip. Dyna drill will not rotate, can circulate out top of dyna drill dump valve @ 7 BPM with 1,000# pump pressure.</p>	
3/22/75 10,114'	<p>127 days Present Depth: 10,114 (0') Cost: \$1,045,228 Present Operations: Working DP to try and get jars to trip Remarks: Mud wt 10.3#, vis 48, total salt 276,800 ppm, solids 4%, oil 5%. Jar on fish 5 hrs. Circulate and condition, add mill plate and 10 bbls oil, circulate thru valve in top of dyna drill, jar on fish 3 hrs. Run string shot and backoff at sub on dyna drill 2-1/4 hrs. POH 4-3/4 hrs. Lay down Bowen jars and pick up Daly jars 1 hr. Cut drill line 1-1/2 hrs. WIH 2-3/4 hrs. Circulate and condition and screw into fish 1 hr. Attempt to trip jars 3/4 hrs.</p>	
3/23/75 10,114'	<p>128 days Present Depth: 10,114' (0') Cost: \$1,053,294 Present Operations: Waiting on rig repair parts Remarks: Work DP, could not get Daly jars to trip 2 hrs. WIH with string shot and backoff above crossover at top of dyna drill 2 hrs. POH 4-3/4 hrs. Cut drill line 1-1/4 hrs. Pick up wash pipe 1-1/4 hrs. Repair rig, drum clutch rubber leak 2 hrs. Wait on repair parts 10-3/4 hrs.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/24/75 10,114'	<p>129 days Present Depth: 10,114 (0')</p> <p>DC: \$7,421 CC: \$1,060,715</p> <p>Present Operations: RIH with wash pipe and shoe #2</p> <p>Remarks: Mud wt 10.2#, vis 48, WL 6.5, C1 276,000, pH 9.5, solids 3%, oil 5%. Waiting on clutch parts 8-1/2 hrs. Repairing clutch 3 hrs. Finished RIH with wash pipe 2-1/2 hrs. Wash over dyna drill 8' fill 3 hrs. Rotate on iron, cut 6" 3-1/2 hrs. POOH change jars and shoe 3 hrs. RIH with new shoe (old shoe in good shape) 1/2 hr.</p>	
3/25/75 10,114'	<p>130 days Present Depth: 10,114' (0')</p> <p>Cost: \$1,068,576</p> <p>Present Operations: Washing over</p> <p>Remarks: Mud wt 10.3#, vis 49, WL 5.8, cake 2/32", 285,600 ppm, pH 9.8, solids 3%, oil 4-1/2%, 3% LCM, 57 SPM, 625#, 6.6 BPM. GIH/wash over shoe #2 1/2 hr. Cut drilling line 3/4 hrs. GIH 3/4 hr. Service rig 1/2 hr. Complete GIH 2 hrs. Wash out 3' fill, wash over 12" fish 5 to 15,000, 40 rpm, no show iron cuttings in mud 8 hrs. POH, check shoe, good condition no show iron marks 4-1/2 hrs. Cut drilling line 1 hr. WIH, reran #2, wash over shoe 3 hrs. Wash over 1-1/2 hrs. to get total depth 2-1/2 hrs. Now 25,000, 6" last hr.</p>	
3/26/75 10,114'	<p>131 days Present Depth: 10,114'</p> <p>DC: \$8,339 CC: \$1,076,915</p> <p>Present Operations: Milling over fish</p> <p>Remarks: Mud wt 10.3#, vis 49, YP 16, PV 28, WL 3.6, pH 9.0, C1 264,000 ppm, solids 3%, oil 4-1/2%, pump 1,050 psi, 38 rpm, 15,000#. Wash over fish, made 6", no progress last 2 hrs, 8-3/4 hrs. POOH, shoe belled out on bottom, clustrite in good shape 4-1/2 hrs. Service rig, change shoe 1-1/4 hrs. Start trip in hole 1-3/4 hrs. Cut and slip 40' drilling line 1 hr. Finish in hole 1-3/4 hrs. Wash over fish 1 hr. Milling, cut 3", few pieces of iron cutting 4 hrs.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
3/27/75 10,114'	<p>132 days Present Depth: 10,114' Cost: \$1,084,993 Present Operations: Jarring on fish Remarks: Mud wt 10.3#, vis 47, WL 6.0, pH 11, total salt 270,000 ppm, solids 3-1/2%, oil 4-1/2%. Mill over stab to 10,110' 3 hrs. Spot acid around fish, move 1 bbl each 5 min 1-1/2 hrs. Pull to 10,095' and circulate acid out 2 hrs. Service rig 1/2 hr. POOH, 130,000#, drag off bottom, clustrite worn from shoe, 1-1/2" bottom shoe belled out 4 hrs. Lay down wash pipe 1/2 hr. Pick up screw in sub,jars, etc 1-1/2 hrs. Cut drill line 3/4 hr. Complete trip in hole 1-1/2 hrs. Circulate screw into fish, dyna drill rotate freely, pull to 330,000# and lose wt to 300,000#, pull to 335,000#, DP parted @ 721', Kelly unhooked and drop to bushings, crack Kelly bushing 1-1/4 hrs. POOH, pick up overshot, WIH and caught fish 3/4 hr. Rig backoff tools 1 hr. WIH with string shot to 9,300', tool stop, pull 40,000# on DP and tool came free, pull to 749', fired string shot and overshot released 2-1/2 hrs. POOH and change grapples and WIH and caught fish 1/2 hr. Backoff 749' 1 hr. POOH and lay down parted joint 1-1/4 hrs. WIH and screw into fish, pipe would not rotate, jar on fish with jars tripping at 340,000# 3/4 hrs.</p>	
3/28/75 10,114'	<p>133 days Present Depth: 10,114' (0') Cost: \$1,092,151 Present Operations: Jarring down on fish Remarks: Mud wt 10.3#, vis 48, WL 6.0, pH 10.5, total salt 272,000 ppm, cake 2/32", solids 3-1/2%. Jar on fish, came free 2-3/4 hrs. Ran collar locator, dyna drill on fish 3/4 hr. Lay 4 joints heavy wate DP 1/2 hr. POH (chaining) 2 hrs. Service rig 1/2 hr. Pull fish to 4,761 (bit), pipe stuck 1/2 hr. Jar down on fish, jars and bumper sub free, pick up and trip jars 1-1/2 hrs. Welding on Kelly bushing 3-1/2 hrs. Circulate and attempt to rotate, WIH with backoff shot 1-1/2 hrs. Back off 4,738, circulate out hole 2 hrs. POH, pick up jars, bumper sub and 5 6-3/4" DC's 2-1/2 hrs. Lay down 37 joints bent DP 4 hrs. WIH 1 hr. Circulate and screw into fish and start jarring down 1 hr.</p>	
3/29/75 10,114'	<p>134 days Present Depth: 10,114' (0') Cost: \$1,098,572 Present Operations: Jarring down on fish Remarks: No mud check, jar down, jars not working properly 3 hrs. GIH with string shot and backoff 4,736' 2-1/4 hrs. POH 1-1/2 hrs. Rig service and repair 1-1/2 hrs. Lay down jars and pick up 6 more 6-3/4" DC's 2-3/4 hrs. Pick up jars 1 hr. Cut drill line 1 hr. GIH 3-1/4 hrs. Screw into fish, jar down, pipe free 2 hrs. Circulate and rotate pipe 1/4 hr. Attempt to work thru tight spot, free pick up 160,000, work pipe up the hole 3' 1/4 hrs. Pipe stuck, jar down 6-1/4 hrs.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
3/30/75 10,114'	<p>135 days Present Depth: 10,114' (0') Cost: \$1,124,966 Present Operations: Laying down DC's from fishing string, prep to go to bottom with bit Remarks: Mud wt 9.8#, vis 47, WL 7.6, total salt 264,000 ppm, solids 2-1/2%. Bit #29 HTC 8-1/2" OWC, jar down on fish, pipe free 3/4 hr. Circulate and condition hole, add 17 drums, mill plate and 40 bbls oil 2-1/4 hrs. Work thru tight spot 4,765 to 4,760, pipe stuck, jars will not work 1 hr. Circulate with all weight on fish, pipe free 3/4 hr. Work DP 4-1/2 hrs. Spot 1500 gal oil 1/4 hr. Work pipe from 4,760 to 4,730, pipe free 4,730 2-3/4 hrs. Repair rig 1/4 hr. POH 2 hrs. Recovered all fish, stab show 1-1/2" milling, bit in good condition, pick up bit, near bit reamer 2 DC's, string reamer, bumper sub, jars, 9 DC's and 9 joints heavy wate DP 1 hr. WIH to bottom casing 1-1/2 hrs. Cut drill line 1/2 hr. GIH to 4,690 1/2 hr. Ream 4,690 to 4,850 4 hrs. Lay down 9 joints heavy wate, 9 DC's, straighten 15 joints heavy wate PP and 59 joints 4-1/2" DP 2 hrs.</p>	
3/31/75 10,120'	<p>136 days Present Depth: 10,120' (6 1/2 hrs.) Cost: \$1,140,544 Present Operations: POH to pick up dyna drill Remarks: Mud wt 10.1#, vis 47, WL 4.6, cake 2/32", 272,000 ppm, solids 4%, oil 6%, trace LCM. Bit #30 8-1/2" HTC OWC, 10,114', 700#, 65 SPM, 7.8 BPM, 160,000#, pick up 280,000# slack off 130,000#, 70,000, rpm 46. Lay down DC's, change BHA, bit, junk sub 3 6-3/4" DC's, bumper sub, jars 3 hrs. Sort pipe (Grade E and heavy wate) 4-1/2 hrs. Straight pipe 1 hr. WIH to casing bottom 1 hr. Service rig 1/2 hr. WIH to 9,965' 1-3/4 hrs. Wash and ream 9,965-10,035' 1-1/4 hrs. Rig repair 2 hrs. Wash and ream 10,035-10,114', trip gas 900/0 1-1/4 hrs. Drilling 10,114-10,120' 2 hrs. CBU, no gas on bottoms up 2 hrs. POH 3-3/4 hrs.</p>	
4/1/75 10,166'	<p>137 days Present Depth: 10,166' (46 1/9 hrs.) 5.1 fph Cost: \$1,147,069 Present Operations: Drilling in limestone @ 4fph Remarks: Mud wt 10.1#, vis 47, WL 6.0, pH 10.5, 267,000 ppm. Solids 3%-10%, Oil - trace LCM. No. 30 - 8-1/2" HTC OWC, 6 1/2 hrs. T2-B2 engage. NO. 31 Rerun 26 - 8-1/2" Christ MD 331, 46 1/9 hrs. 1250# 7.4 BPM, 10,000-20,000; 40 RPM. String Wt 160,000# - Slack off 120,000 - Pickup 285,000. Complete POH 2 hr, Laydown 3 DC's, Pickup Dyna-Drill, Non Magnetic DE 1 Steel DC's 1 1/2 hrs, Lay down Kelly to Straighten 2 hrs, Pickup jars and GIH to bottom casing 1 1/2 hrs, Pickup Kelly 1 1/2 hrs., Pickup 12 Jts Grade E DP 1 hr, Rig service 1/2 hr, Complete GIH - tight, Spot @ 4870' - Ream 4870' - 4900' (15 min.) 3 joints HW 620'-710'. Will move HW up hole 1 stand on next connection. Ream 10,070'-10,120', trip gas 18,000 units over 5 units 1 1/2 hrs, Drill 10,120-10,166', Background gas, 5 units total - C1 - C2 - C3.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY-PARISH-STATE-PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/2/75 10,221'	<p>138 days Present Depth: 10,221' (55'/20¼ hrs) 2.7 fph Cost: \$1,155,995 Present Operations: Drilling white chert and dolomitic lime. Mud wt 10.0, vis 45, PV20 YP8, WL 5.2, pH 10.5, Cl 260,000 ppm, solids 3%, Oil 10%. Pump 1250 psi, 40 rpm, 20,000#. Bit #31 (26RR), 331, In 10,120 - 101'/29½ hrs. Normal Wt 180,000#, Slack off 120,000# pick up 280,000#. Drilling 9 hrs, 10,166-10,196', service rig ½ hr. Drilling 10,196- 10,205' 3 hrs, Short trip, moved heavy wall drill pipe 630'-720', trip gas 20 units, background 5 2½ hrs, Drilling 10,205-10,221', now drilling 2' fph 2¼ hrs. DC\$8,926.</p>	
4/3/75 10,271'	<p>139 days Present Depth: 10,271' (50'/22-1/2 hrs) Cost: \$1,165,231 DC: \$9,236 Present Operations: Drilling (Dolomite 2.3 FPH) Remarks: Mud wt 10.2#, vis 47, WL 7.6, pH 10.5, 270,000 ppm, solids 3%, oil 10%. Bit #31 8-1/2 Christ MD 331, 151'/51-3/4 hrs. 1250#, 65 SPM, 7.8 BPM, Av 154 DP, 242 DC's, BHA 459.58' (21,000#, 10.2 mud), SW reading 182,000#, PU 285,000#. Slack off 120,000#, rotating part-time, last 12 hrs. 20,000# weight on bit while rotating 30,000# weight on bit, not rotating. Drilling 22-1/2 hrs. Service rig 1/2 hr. Clean filter screen in DP 1 hr.</p>	
4/4/75 10,301'	<p>140 days Present Depth: 10,301' (30'/20 hrs) 5' depth correction DC: \$8,218 CC: \$1,173,449 Present Operations: Drilling Remarks: Mud wt 10#, vis 52, WL 8.2, 270,000 ppm, pH 11, solids 3%, oil 15%, cake 2/32". Bit #26 (rerun) Christ MD 331, 181'/61-3/4 hrs. Drilling 10,271-273' 2-1/2 hrs. Rig service 1/2 hr. Clean pets 3/4 hrs. Drilling 10,301' 17-1/4 hrs. Short trip, 7 stands, move HW up 1 stand 1-1/2 hrs. CBU, work tight hole to total depth 3/4 hr. Drilling 1/4 hr. MD 10,015', TVD 9,350.39', angle 1-1/2°N14°W, coord from kick off, N96.17', E38.53'.</p>	
4/5/75 10,308'	<p>141 days Present Depth: 10,308' (7'/2-3/4 hrs) Cost: \$1,178,450 Present Operations: Rig to run GR log thru DP Remarks: Bit #26 (rerun) Christ MD 331, 188'/74-1/2 hrs. Survey MD 10,308' angle 1-1/2° N39°W. Drill 10,301-308' 2-3/4 hrs. Drop survey 1/2 hr. Start POH 3 hrs. Work thru tight spots @ 4,892', 4,624' and 4,400' 2 hrs. Complete trip out of hole 1-1/4 hrs. Bit 5/16" under-gage, lost 2 pieces matrix 4" X 5" X 3/4" and 3" X 2-1/2" X 1" from outside gage of bit. Bottom of bit OK. Lay down Dyna drill and pick reamers to ream tight spots @ 4,400-900'. Cut drill line, stand back reaming assembly 9 hrs. GIH open end to log 3-1/4 hrs. Circulate 5' off bottom 2-1/4 hrs.</p>	

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Federal Weaver No. 1		Western
COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/6/75 10,309'	<p>142 days Present Depth: 10,308' Cost: \$1,184,027 Present Operations: Trip for bit Remarks: Bit #31 Sec DMJ, ream 10,210-237' 6 hrs. Rig to log 1/2 hr. Ran RA log 1", 2" and 5" scale, 9,500-10,302' 3 hrs. POH 3 hrs. Rig repair 1-1/2 hrs. Complete trip out of hole 1 hr. Pick up BHA, bit, junk basket, roller reamer, 2 DC's, stabilizer, 12 joints HW 2 hrs. WIH 3 hrs. Ream 6 hrs. POH for bit 4 hrs.</p>	
4/7/75 10,308'	<p>143 days Present Depth: 10,308' (0') DC: \$8,588 CC: \$1,133,534 Present Operations: Reaming 10,232' Remarks: Mud wt 10.1#, vis 52, WL 8.6, 275,000 ppm, pH 11.0, solids 3-1/2%, oil 10%, cake 2/32". Bit #32 Sec H7UGJ 10,227-10,232, 5'/6-1/2 hrs. Bit #33 Smith T2H, 10,232, 3 hrs, 6". POH 1-3/4 hrs. Cut drill line 1 hr. GIH to 10,210', wash to 10,227', ream 45 rpm, 7' 3-3/4 hrs. Reaming 10,227-232' 6-1/2 hrs. POH for bit 4 hrs. Pick up bit, cut drill line 1-1/2 hrs. GIH 3 hrs. Reaming 10,232' 3 hrs.</p>	
4/8/75 10,309'	<p>144 days Present Depth: 10,309' (1'/1-1/4 hrs) DC: \$6,257 CC: \$1,139,791 Present Operations: Drilling Remarks: Mud wt 10.0#, vis 48, WL 4.4, 260,000 ppm, pH 11.0, cake 2/32", solids 3-1/2%, oil 8%. Bit #33 Smith T2H, ream 10,232-308'/13-1/2 hrs. Bit #34 8-1/2" Sec H77, 10,308' in hole. Reaming 10,232' 5 hrs. Ream 10,232-308' 5-1/2 hrs. POH 5-1/2 hrs. Cut drilling line 1 hr. GIH with Bit #34 3-3/4 hrs. Ream 59' to total depth 2 hrs. Drill 10,308-309' 1-1/4 hrs. Recovered in junk basket 4 broken bit teeth and 3 pieces Matrix 1/2" X 1/2" X 1/4".</p>	
4/9/75 10,313'	<p>145 days Present Depth: 10,313' (4') DC: \$9,263 CC: \$1,149,054 Present Operations: Drilling with Bit #36 Remarks: Bit #34 Sec H77, 10,308-311' T7, B8, engage, cones locked. Recovered 1-3/4#, pieces diamond bit matrix up to 3/4" X 1/2" X 1/2". Bit #35 Sec H7SG, 10,311'. Mill on junk 3 hrs. T6, B2, engage, recovered 1/2# matrix pieces, 1/2" X 3/8" X 3/8" and smaller. Bit #36 Sec H7SG, 10,311-313', prep to pull 2" 2 hrs. Drilling on junk with Bit #34 10,309-311' 2 hrs. POH 4 hrs. Lay down and pick up jars, junk sub and bit 2-3/4 hrs. GIH with Bit #35 1 hr. Cut drilling line 1 hr. Comp in hole 1-3/4 hrs. Drilling on junk 10,311' 2 hrs. POH 3-1/2 hrs. Change bit 2-1/2 hrs. Cut drilling line 1-1/4 hrs. Ream 40' to total depth 1/4 hr. Drill on junk 10,311-313' 1-3/4 hrs. MD 10,308', TVD 9,643.80', angle 1-1/2°, N39W, coord from kick off, north 102.13', east 33.70.</p>	

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COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
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Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
4/10/75 10,313'	<p>146 days Present Depth: 10,313' Cost: \$1,165,631 Present Operations: Working stuck pipe Remarks: Mud wt 10.1#, vis 52, WL 3.2, pH 10.5, 272,000 ppm, oil 8%, solids 3%. Bit #36 H7SG 3-1/2" jets, 10,311-313', 2 1/2 hrs. Bit #37 Christ MD 331, junk sub recovered 4 pieces matrix 1/4". Drilling 1/4 hr. POOH 3-1/2 hrs. Pick up Dyna drill 2-3/4 hrs. GIH 3-1/4 hrs. Cut drilling line 1/4 hr. Reaming 10,146'-234' 3-1/2 hrs. Working pipe, will go down free 15' (Kelly down), 10,234' tight place DP, will rotate and circulate at low rate, 1-1/2 Bpm, 16 to 1800# 10-3/4 hrs. Spot 10 bbls oil, BHA, bit, diamond stabilizer, dyna drill, crossover, 2 DC's, blade stabilizer, crossover, Bowen jars, crossover, 12 joints HW, total BHA 471'.</p>	
4/11/75 10,313'	<p>147 days Present Depth: 10,313' DC: \$6,624 CC: \$1,172,255 Present Operations: POH for logs Remarks: Mud wt 10.0#, vis 50, YP 14, Gel 3-9, WL 2.0, Cl 270,000 ppm, solids 3%, oil 9%. Bit #37 Christ MD 331, 10,313' (0'). Bit #31 (re-run) Sec. DMJ, 10,313'. Jar on stuck pipe 10,234', pull free 4-1/2 hrs. Circulate @ 10,300' 2-1/2 hrs. Ream 10,200-295' 1-1/4 hrs. POOH, Dyna drill, no extra drag 3-3/4 hrs. Lay down BHA, pick up reaming assembly 2 hrs. WIH to condition for log, went to total depth 3 hrs. Circulate and condition 4 hrs. POOH 3 hrs.</p>	
4/12/75 10,313'	<p>148 days Present Depth: 10,313' CC: \$1,177,266 Present Operations: Unloading 5 1/2" casing. Remarks: POH for logs 1 hr. Rig to log 1 hr. Ran Dual Lateral Log 10,303' back to bottom of casing. Compensated Neutron Log with Formation Density - 10,305'. Dip meter to 10,305' - Borehole Compensated Sonic with Gamma Ray to 13,305' - 20 hours - Start trip in hole - cut drill line - 2 hrs. BHT 147°.</p>	
4/13/75 10,313'	<p>149 days Present Depth: 10,313' CC: \$1,204,021 Present Operations: Laying down DP to run casing. Cut drilling line 1 hr., unloading casing 1 hr. Completed going in hole to condition for casing 2 hours. Circ & Cond W.O. Casing 3 hours. Unloading & tally Casing - moving HW-DP & DC's- 7 hours. POH - laying down D.P. 10 hours.</p>	

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Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/14/75 10,313	<p>150 days Present Depth: 10,313' CC: Present Operations: Picking up 4½" D.P. Comp out hole - laying down DP & DC's 1-½ hours. Change out pipe rams 1-½ hr. Cut drilling line ½ hr. Ran 125 jts. 5½" casing @ 5046' - Float Equipment 5053' - took wt. Would not go 5047'. Pipe wt. 73,000# - 7,000# drag pickup (80,000#) 7-½ hours. Work pipe - slack off 60,000# - No go - Pickup 45,000# above string wt - pull free. Rotate pipe slowly - slack off 60,000# - Went 2' lower - Rotate pipe slow - Pull 45,000# to pull free - Fill with mud and Circ 20 min. - Slack off 50,000# - Went 4' @ 5053' - Pull 65,000# over wt to free 1 hour. Rig to pull casing 1 hour. Pull & lay down csg - Rec Cent all good. Rec metal petal baskets - Rec 26 of total 36 Metal fingers 6 hours. Pickup BHA & DP Bit No. 38 Hughes W7R-2 DC's Stab - Bowen Jars & DP.</p>	
4/15/75 10,313	<p>151 days Present depth 10,313' DC: \$10,547 CC: \$1,281,181 Present Operations: Reaming @ 4694' - 10,000# to 15,000# from 4653' Remarks: MW 10.5#, vis 45, WL 1.0, pH 10.5, Oil 7% Bit no. 38 (rerun) Hughes H 75G - Pickup DP & GIH to 7709' 13 hrs. POH 2¼ hr. Pickup reaming assembly 2 ¾ hr. GIH to 4653' 5 hrs. Reaming 1 hr. BHA Bit Roller Reamer- 1 DC - Roller Reamer - 1 - DC - Stab - 2 DC's - Stab 7 DC's - Jars - 4 DC's - 494' - SW 110,000#.</p>	
4/16/75 10,313	<p>152 days Present depth: 10,313' DC: \$7,468 CC: \$1,288,667 Present Operations: Reaming and working thru tight spot 5006' Remarks: Reaming 4694-4986' 4 hours. Rig service 1 hour. Reaming 4980'-5537' 13 hours. Short trip (12 stands tight 4693' - Coming out - work thru tight spot, GIH to tight 5068' ream thru, GIH to 5537' 4 hours. Short trip 12 stands tight 5006' - Coming out - reaming thru 5006' 2 hours.</p>	
4/17/75 10,313	<p>153 days Present Depth: 10,313' DC: \$5,281 CC\$ 1,293,948 Present Operations: Prep to start lay down DP. Work & ream thru tight spot 5006-5037' 2 hours. POH 4 hours. GIH - Bit No. 38 Junk sub - 3 DC's stab - Jars & DP, 10 hours. Drilling on junk 8 hours.</p>	
4/18/75 10,313	<p>154 days Present Depth: 10,313' DC: \$5,201 CC: \$1,299,149 Present Operations: Running 5½" casing - 4100' in hole. Rig to lay down DP 2 hours. Lay down DP 4 hours. Rig service ½ hr. Lay down DP 3½ hours. Lay down DC's Rig to run casing 3 hours. Run casing 7½ hours.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/19/75 10,313	<p>155 days Present Depth: 10,313' DC: \$ Present Operations: Nip Up. Run 5½" casing 265 jts. @ 10,311' 7½ hours. Hookup to Cement ½ hour. Circulate B.V. 2½ hours. Mix 910 sacks lite weight - 250 bbls. Bump plug 2000#. 1½ hours. Pickup BOP's 1 hour. Set slips 2 hours. Remove and replace BOP's 9 hours.</p>	
4/20/75 10,313	<p>156 days Present Depth: 10,313' (0') DC: \$7,960 CC\$ 1,315,829 Present Operations: Picking up DP C6300'. BHA Bit 4-5/8" Junk Sub 24-3-½" DC - Smith t2. 5½" 10,311' Nip up BOP's 9 hours. Check BOP's 1½ hour. Rig to run DP 4 hours. Pickup DC & DP 9½ hours.</p>	
4/21/75 10,315	<p>157 days Present Depth 10,315' (2') DC: \$5,536. CC: \$1,321,365 Present Operations: Trip for bit. MW 9.8#, Vis 46, WL 3.8, 140,000 PPM, solids 4%. No. 40 4 5/8" Smith t2 Out 10,315' - top cement 10,190' drilling 125' Cement. 5-½" - 10,311'. BHA 709' - 24 3½" DC's - SW 114,000# PV 135,000# Rec - Junk basket full, 950# 33SPM, AV 206'. Pickup DP 8-3/4 hours. Circulate 2½ hours. Drilling cement Float collar and shoe 7½ hours. POH 5½ hours.</p>	
4/22/75 10,318	<p>158 days Present Depth: 10,318' DC \$6,455 CC:\$ 1,387,320 Present Operations: POH for bit. MW 10.1#, vis 29, 172,000 PPM 1% solids. No. 41 H&C NO - 10,312'-10,318' 6 - 6-3/4 hours. 6,000 to 8,000, 40 to 42 RPM, AV 206-950#. WIH, bit No. 41 3-1/4 hours. Service rig check BOP's, cut drilling line 1½ hours. Drilling 2-1/4 hours. Cleaning pits 8 hours. Washt to TD & circulate 1-½ hour. Drilling 4½ hours. POH 3 hours.</p>	
4/23/75 10,318	<p>159 days Present Depth: 10,318' Cost: \$1,393,239 Present Operations: Working on pump Remarks: Trip 5-1/2 hrs. Working on pump 18-1/2 hrs.</p>	
4/24/75 10,332	<p>160 days Present Depth: 10,332' (14'/7 hrs) DC: \$3,802 CC: \$1,402,040 Remarks: Mud wt 10.1#, vis 45, WL 9.2. Bit #42 4-5/8 MD 331. Pump 1700 psi. Working on pump 16-1/2 hrs. Service rig 1/2 hr. Drilling 7 hrs.</p>	

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COUNTY-PARISH-STATE-PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/25/75 10,416	<p>161 days Present Depth: 10,416' (84'/23-1/2 hrs) Cost: \$1,412,476 Present Operations: Drilling in limestone 3.2 FPH Remarks: Mud wt 10.1#, vis 45, WL 9.2, 267,000 ppm, pH 8.5. Bit #42 Christ MD 331, 98'/30-1/2 hrs. 36 SPM, 1700#, 112 GPM, AV 297', DC 207', DP, BHA 726.23', 3-1/2, DC, SW 95,000#, PU 155,000, wt 7,000#, 47 rpm. Drilling 4-3/4 hrs. Rig service 1/2 hr. Drilling 18-3/4 hrs.</p>	
4/26/75 10,484	<p>162 days Present Depth: 10,484' (68'/23-1/2 hrs) DC: \$5,411 CC: \$1,417,887 Present Operations: Limestone, tan dolomite, 10% green shale, drilling 2-4' per hr. Remarks: Bit #42 Christ MD 331, 166'/64 hrs. Mud wt 10.1#, vis 40, WL 6.2, 262,000 ppm, pH 8.5, solids 1/2%. PU 160,000, SW 95,000-7,000 wt on bit, 44-60 rpm. Drilling 2 hrs. Service rig 1/2 hrs. Drilling 21-1/2 hrs.</p>	
4/27/75 10,503	<p>163 days Present Depth: 10,503' (19'/14-1/4 hrs) DC: \$8,886 CC: \$1,426,773 Present Operations: Drilling in grey limestone, 10% green shale Remarks: Mud wt 10.1#, vis 44, WL 6.0, 265,000 ppm, 1/2% solids, 62 Spm, 2,000#, 122 Gpm, 7,000, 41 rpm. Bit #42 Christ MD 331, 180'/65-1/2 hrs, 2.76 Fpm, in gage, center cored out. Bit #43 4-5/8", MD 331, 10,498-503', 5'3-1/2 hrs, 1.4 Fpm. No fill on bit trip, background gas 5 units. Drilling 7 hrs. Service rig 1/4 hr. Drilling 3-3/4 hrs. POOH 4-1/2 hrs. WIH to bottom casing 3-3/4 hrs. Cut drilling line 1 hr. GIH to total depth 1/4 hr. Drilling 10,498-503' 3-1/2 hrs.</p>	
4/28/75 10,525	<p>164 days Present Depth: 10,525' (22'/13 hrs) DC: \$11,491 CC: \$1,438,065 Present Operations: Drilling dolomite and limestone @ 2.4 Fph. Remarks: Mud wt 10.1#, vis 42, WL 5.8, 270,000 ppm, solids 1/2%. Bit #43 MD 331, 7'/7 hrs. Bit #44 MD 331, with piggy back 10,505', 20'/9-1/2 hrs. (2.1 Fph) on Dyna drill. 2,100#, 60 Spm, 118 Gpm, BHA 712.71' SW 95,000#, PU 160,000#, slack off 65,000#, 7-8,000# on bit, 40 rpm. Dyna drill 250 rpm (290 rpm). Drilling 10,503-505' 3-1/2 hrs. POOH Bit #43 in gage last few diamonds, indicating hard form 7,000#, 44-60 rpm 3-1/2 hrs. Service rig 1/2 hr. Lay down DC's and PU 3-3/4 OD, dyna drill, 2 stab 1 hr. WIH, PU Kelly, PU to 10,470' 4 hrs. Start Dyna drill pipe stuck, work free, 185,000# pull 1 hr. Ream 10,470' to total depth free, tight 10,420', back drill thru 10,470', hole free 1 hr. Drilling with Dyna drill 10,505-525', connection, pipe free 9-1/2 hrs. Drilling time increased from 1 FPH to 2-1/2 FPH with Dyna drill. No trip or background gas.</p>	

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Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
4/29/75 10,579	<p>165 days Present Depth: 10,579' (54'/23-1/2 hrs) DC: \$7,693 CC: \$1,445,958 Present Operations: Drilling, soft dolomitic limestone, trace silt-stone and green shale Remarks: Mud wt 10.1#, vis 42, WL 4.0, pH 9.0, 255,000 ppm, 1/2% solids. Bit #44 Christ MD 331 with piggy back stab, 74'/33 hrs. 2.24 Fpm, 2100#, 60 Spm, 118 Gpm, SW 95,000#, PU 160,000#, 7000# weight on bit, 40 rpm. Bit 250. Drilling 9 hrs. Service rig 1/2 hr. Drilling 14-1/2 hrs. Present rate 2 Fph, 0 units background gas.</p>	
4/30/75 10,613	<p>166 days Present Depth: 10,613' (34'/13-1/4 hrs) DC: \$6,309 CC: \$1,452,267 Present Operations: Drilling sandstone, 2.7 Fph Remarks: Mud wt 10.2#, vis 43, WL 3.9, pH 10.5, 255,000ppm, solids 1/2%. Bit #44 Christ MD 331, piggy back stab, 80'/35-1/2 hrs. DD and total 108', total hrs 46-1/4. 2100#, 64 Spm, 126 Gpm, 7 to 8,000# weight on bit, 48 Rpm. Drilling Dyna drill 2 hrs. Service rig 1/2 hr. Drilling Dyna drill 1/2 hr. POOH 4 hrs. Lay down Dyna drill 3/4 hr. GIH 1/2 hr. Cut drilling line 3/4 hr. Rig repair 1-1/4 hrs. GIH 1-1/4 hrs. Change oil 3/4 hr. Comp GIH, no fill 1 hr. Drilling 10-3/4 hrs. No trip or background gas. BHA, Bit 1.20', 3-1/2" DC, 30' Stab, 3.08', 3-1/2", DC, 30', stab 3.08', 22, 3-1/2", DC, 649.25', total 716.61'.</p>	
5/1/75 10,646	<p>167 days Present Depth: 10,646' (33'/15-3/4 hrs) DC: \$10,567 CC: \$1,462,834 Present Operations: Drilling in sandstone, 1-1/2 Fph Remarks: Mud wt 10.1#, vis 41, WL 4.0, pH 9.0, 280,000 ppm, 6/10% solids. Bit #44 Christ MD 331, piggy back, 128'/55-1/4 hrs. Bit #45 Christ MD 331, piggy back, 13'/6-3/4 hrs. 2,000#, 64 Spm, 126 Gpm, BHA 716.71', SW 100,000#, PU 160,000#, wt on bit 8 to 12,000#. 48-50 rpm. Drilling 2 hrs. Rig service 1/2 hr. Drilling 10,630-631, 30 min, 61 min, 42 min, 8/10', 82 min 7 hrs. POOH, bit cored out 3 hrs. PU bit and WIH 3 hrs. Wash to total depth, no fill or trip gas or back 1/2 hr. Drilling 6-3/4 hrs. Repair pump 1/2 hr.</p>	
5/2/75 10,674	<p>168 days Present Depth: 10,674' (28'/23-1/2 hrs) Present Operations: Drilling, last float 2 hrs. Remarks: Mud wt 10.1#, vis 37, WL 4.4, salt 255,000 ppm, solids 8%. Bit #45 Christ MD 331, piggy back, 41'/30-1/4 hrs. 2,000#, 65 Spm, 128 Gpm, 44 Rpm, 10-11,000 wt on bit. Drilling 7 hrs. Rig service 1/2 hr. Drilling 16-1/2 hrs. Lost 250 bbls 8 hrs. 100% returns now. Depth when last part returns add LCM. No gas shows, clay sand.</p>	

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Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/3/75 10,675	<p>169 days Present Depth: 10,675' (1') DC: \$5,592 CC: \$1,474,138 Present Operations: Fishing Remarks: Mud wt 10.1#, vis 38, WL 4.2, salt 255,000 ppm, solids 8%. Bit #45 MD 331, piggy back, 10,663' (42'/32-1/4 hrs). Bit wt 1,800#, 60 Spm, 3 Bpm. Drilling 2 hrs. POOH, lost 10 DC's, 2 stabilizers, bit 4 hrs. Waiting on fishing tools 7-1/2 hrs. WIH, overshot, bumper sub and jars 3 hrs. Working pipe and circulating 7-1/2 hrs.</p>	
5/4/75 10,675	<p>170 days Present Depth: 10,675' Cost: \$1,482,411 Present Operations: Jarring on bit Remarks: Mud wt 10.1#, vis 41, WL 4.2, salt 255,000 Ppm, solids 8%. Bit #45 MD 331, piggy back 10,663' (42'/32-1/4 hrs). Rig to backoff 2 hrs. Backoff @ 10,472' 5-1/2 hrs. POOH 4 hrs. Lay down bad DC's, pick up fish tools 2 hrs. WIH 3 hrs. Screw in and drive and jar on fish 8-1/2 hrs. Good circulation, pipe will not move, spot 10 bbls oil.</p>	
5/5/75 10,675	<p>171 days Present Depth: 10,675' Present Operations: Working pipe Remarks: Mud wt 10.1#, vis 41, WL 4.2, salt 255,000 Ppm, 8% solids. Spot 10 bbls oil 1 hr. Work pipe 3 hrs. Spot mill, free with 50 bbls oil 1-1/2 hrs. Work pipe, pipe parted 120' from surface 1-1/2 hrs. WO overshot 3 hrs. Backoff below break, lay down overshot, screw in 7 hrs. Working pipe, moved up hole 22', will rotate after driving back, free circulation. Bottom fish 10,638'. Cost: \$1,488,358</p>	
5/6/75 10,675	<p>172 days Present Depth: 10,675' Present Operations: Washing to total depth Remarks: Mud wt 10#, vis 40, WL 4.4, Cl 255,000 Ppm, solids 1%. Bit #46 HTC WO, open jets, 1400#. Jar on fish, pipe part 427' 6 hrs. POOH, run overshot, backoff and screw in 3 hrs. Jar and work fish 2 hrs. POOH, lay down bent DP and 16 jts 5 hrs. GIH, 1 tooth bit 5-1/2 hrs. Cut drilling line 1 hr. Wash 140' 1-1/2 hrs. Cost: \$1,504,109</p>	
5/7/75 10,681	<p>173 days Present Depth: 10,681' (6' + 4' DP correction) Cost: \$1,509,792 Present Operations: Drilling Remarks: Mud wt 10#, vis 41, WL 4.0, Cl 255,000 Ppm, solids 1%. Bit #47 Christ MD 331, 9'/13 hrs. 1800#, 4.6 Bpm, 55-44 Rpm. Wash to total depth 1 hr. Drilling 2 hrs. POOH/Bit #46 4-1/2 hrs. WIH/Bit #47 3-1/2 hrs. Drilling 13 hrs.</p>	

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DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED																													
5/8/75 10,703	174 days Present Depth: 10,703' (22') Cost: \$1,520,499 Present Operations: Drilling, dolomite Remarks: Mud wt 10#, vis 43, WL 2.0, Cl 225,000 Ppm, solids 2%. Bit #47 MD 331, 27'/35-3/4 hrs. 1600#, 3 Bpm, 44 Rpm. Drilling 23-3/4 hrs. Service rig 1/4 hr.																													
5/9/75 10,717	175 days Present Depth: 10,717' (14'/11-1/4 hrs) Present Operations: Drilling, dolomite Remarks: Mud wt 10#, vis 43, WL 2.4, Cl 196,000 Ppm, solids 2%. Bit #48 Christ MD 331, 14'/11-1/4 hrs, 1600#, 3 Bpm, 30 DC's, 14 to 15,000 on bit, 44 Rpm. Drilling 1 hr. POOH, Bit #47 3-3/4 hrs. WIH with Bit #48, pick up 2 stab and 6 DC's 4-3/4 hrs. Ream to total depth 10,703' 3-1/4 hrs. Drilling 11-1/4 hrs. Cost: \$1,529,638																													
5/10/75 10,721	176 days Present Depth: 10,721' (4') Cost: \$1,535,009 Present Operations: DST No. 1 Remarks: Mud wt 10#, vis 37, WL 2.1, Cl 267,000 Ppm, solids 2%. Bit #48 Christ MD 331, 18'/21-1/4 hrs. Drilling 10 hrs. POOH for DST 4 hrs. Pick up DST tools 2 hrs. WIH/DST 4 hrs. Testing 4 hrs. DST #1, 10,182-721', initial flow moderate blow SI 1 hr. Moderate blow, no gas to surface 2-3/4 hrs. (Results shown below received 5/12/75). <table border="0" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>IP</th> <th>FP</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1st F</td> <td>920#</td> <td>1273#</td> <td>1/4 hr.</td> </tr> <tr> <td>ISI</td> <td></td> <td>4565#</td> <td>1 hr.</td> </tr> <tr> <td>2nd F</td> <td>1459#</td> <td>3592#</td> <td>8-1/4 hr.</td> </tr> <tr> <td>FSI</td> <td></td> <td>4420#</td> <td>18-1/2 hr.</td> </tr> <tr> <td>IHP</td> <td>4958#</td> <td></td> <td>(full build up 8 hrs)</td> </tr> <tr> <td>FHP</td> <td>4855#</td> <td></td> <td></td> </tr> </tbody> </table> Moderate blow to very weak blow, rec 12 bbls mud and 30 bbls water.			IP	FP	Time	1st F	920#	1273#	1/4 hr.	ISI		4565#	1 hr.	2nd F	1459#	3592#	8-1/4 hr.	FSI		4420#	18-1/2 hr.	IHP	4958#		(full build up 8 hrs)	FHP	4855#		
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5/11/75 10,721	177 days Present Depth: 10,721 (0') Cost: \$1,540,010 Present Operations: DST, POOH start 6:00 AM. Remarks: Mud wt 10#, vis 37, WL 2.1, Cl 267,000 Ppm, solids 2%. DST 24 hrs. Final flow 8-1/4 hrs. Blow weakened to almost nil, FSI 18-1/4 hrs.																													
5/12/75 10,721	178 days Present Depth: 10,721' (Schlumberger 10,735') Cost: \$1,546,360 Present Operations: Logging, on 3rd run Remarks: Mud wt 10#, vis 39, WL 2.2, Cl 192,000 Ppm, solids 2%. Bit #49 Smith T2, clean out bit 1600#. POOH DST #1 6 hrs. WIH 3-1/2 hrs. Wash 30' to total depth 1 hr. Circulate and condition for log 4 hrs. POOH to log 3-1/2 hrs. Log 6 hrs.																													

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Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE	FIELD OR PROSPECT NAME	AFE NUMBER
Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/13/75 10,721	179 days Total Depth: 10,721' Cost: \$1,569,598 Present Operations: Prep to set BP Remarks: Log 6 hrs. Rig down loggers, lay down DC's, cut drill line 2 hrs. WIH to plug back 4-1/2 hrs. Circulate 1-1/2 hrs. Spot plug 50 sks 1/2 hr. Pull 5 stands, 10,196', circulate out 3-1/2 hrs. POOH 5 hrs. Try correlation, collar log, log tool would not work 1 hr.	
5/14/75 10,721	180 days TIGHT HOLE Present Depth: 10,721' (PBD: 10,164') Cost: \$1,576,432 Present Operations: Rigging down Remarks: Set BP 10,164' 4 hrs. WIH to lay down DP 2-1/2 hrs. Laying down DP and DC's 6-1/2 hrs. Rig down 11 hrs.	
5/15/75 10,164	181 days PBD: 10,164' TD: \$10,721' Cost: \$1,578,184 Present Operations: Rigging down, rig released at 10:00 AM, 5/14/75.	
5/16/75	Waiting on completion rig. (Will not be included on report until further notice.)	
5/21/75	Waiting on completion tools.	
5/22/75	PBD: 10,164' Present Operations: Install dead man, prep to rig up completion rig.	
5/23/75	Present Operations: Prep to rig up completion rig. Towell Service on location.	
5/24/75 10,164	2 days PBD: 10,164' Present Operations: Nip up BOP's Remarks: Mov in comp rig, rig up set swab tanks, built burning pits. Move tubing on racks set on location. Connecting up sep. Cost: \$2,453; \$3,773; \$1,583,277	
5/25/75 10,148	3 days PBD: 10,129' (GL 10,148' RKB* corrected to wireline measurement) Present Operations: Pulling out hole to run logs Remarks: Circulate out, displaced with saltwater, prep to log and per saltwater 9.5-9.9#. Set and rig sep, laid lines to tanks & burning pits. Cost: \$2,564; \$6,337; \$1,589,614	

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Grand County, Utah	Wildcat	9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/26/75 10,148	<p>4 days PBTB: 10,148'RKB Present Operations: Testing BOP's and wellhead Remarks: POOH, rig to log and perf. Ran logs, 10,148' RKB, ran BP to 25' to test BOP's, test blind rams to 3000# 15 min, held OK. Test pipe rams 3000#, bled off thru 10" flange below tubing spool, retest blind rams, losing pressure 10" flange, test plug above 10" flange. Leaks in pipe connections. Log 10,135-9,350'. Good cement total depth 9,100'. Cost: \$5,450; \$11,787; \$1,601,391</p>	
5/27/75 10,148	<p>5 days PBTB: Not available Present Operations: GIH with tubing and packer Remarks: Test pipe and blind rams, 3000# to 2800#, 5 min. Reset BP @ 20', test rams to 3000# OK. Rig Wellex GIH with casing gun 11', short out, POOH ran gun and perf 10,114-124', 4/ft, casing full, no pressure. Ran RTTS on 2-3/8" tubing, 7500, shut down for night. 12 hr SI 0#. Cost: \$3,470; \$15,257; \$1,616,648</p>	
5/28/75 10,148	<p>6 days PBTB: 10,148' Present Operations: Swabbing (10,114-124') Remarks: SI 14 hrs, 0# casing and tubing. WIH with tubing, set RTTS 10,054'. Made 14 swab runs, swab down to 6,500', packer holding, SI overnight. Cost: \$1,169; \$16,426; \$1,594,610</p>	
5/29/75	<p>7 days 14 hr fluid level 3,000' (swab to 6,500'). SI 14 hr CP & TP 0#. Swab to 6,800'. Rec avg 1 bbl/run. Total H2O swabbed, 48 bbls, tubing volume 39 bbls, packer holding, fluid swabbed dirty salt H2O, pH 6.4. SI overnight, 14 hrs. SI, CP 0#. Fluid level 2,000', prod 14 hrs. 20 bbls while SI overnight. Total chlorides, saturated, over 85,000 Ppm.</p>	
5/30/75 10,110	<p>8 days PBTB: 10,110' Present Operations: Perforating Remarks: Swabbed 4 hrs. Rec 30 bbls formation water. Cl of formation water 85,000 Ppm to 54,000 Ppm, load water Cl 180,000 Ppm. Filled tubing with water, unseated packer, POOH. Ran wireline bridge plug set @ 10,110'. Shut down overnight, ran perf gun and perforated four shots/foot 10,092-104', now pulling perf gun. DC: \$1,852 Completion Cost: \$22,303 CC: \$1,600,487</p>	

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DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
5/31/75 10,110	9 days PBTB: 10,110' Present Operations: Swabbing Remarks: Perf 4 shots/ft 10,092-104' and 10,070-078'. Ran RTTS set @ 9,991', swab 29 bbls load water fluid level 6,500'. SI overnight 14 hrs. SI pressure too small to measure, opening tubings, slight blow of gas, 4' flare for 1 min, ran swab fluid level 1,500'. DC: \$7,636 Comp Cost: \$29,939 CC: \$1,608,123	
6/1/75 10,110	10 days PBTB: 10,110' Present Operations: Swabbing Remarks: 14 hr SICP 0#, TP, TSTM. Blow down, strong flare for 1 min. Fluid 1500', 16 bbls rise, swab 60 bbls (45 bbls form fluid) 34 bbls in tubing, 79 bbls from form total, shut down 2 hrs. Open well, fluid rise 6500' to 2500' 16 bbls 2 hrs, SI. This AM 14 hr SITP, TSTM, SICP 0%, fluid level 800' 11 bbls fill, no gas on blow down. Last C1 81,000 Ppm. Comp Cost: \$31,110 CC: \$1,609,294	
6/2/75	11 days 14 hr SI 0#, SITP TSTM, fluid level 800', 11 bbls entry, swab 9 hrs. (2 runs per hr). 800'-3800' (12 bbls), swab 37 bbls to tank, produced 25 bbls into tubing. C1 53,000 Ppm, SI overnight, total fluid rec 126 bbls (44 bbls load water). This AM 15 hrs. SICP 0#, SITP, TSTM, fluid level 800'.	
6/3/75 10,000	12 days PBTB: 10,000' Present Operations: Pulling out of hole with perf gun Remarks: 15 hr SICP 0#, SITP, TSTM, fluid @ 800', swab 10 bbls, fill hole, unseat RTTS and POOH. Set BP @ 10,000', SI overnight. DC: \$2,761 Comp Cost: \$35,290 CC: \$1,613,474	
6/4/75	13 days Perf 9,924-31', 4 PF. Perf 9,910-17', 4 PF. Ran packer on 2-3/8" tubing, set packer @ 9,862'. Swab to 7,500', rec 23 bbls load water, SI overnight. DC: \$5,457 Comp Cost: \$40,747 CC: \$1,618,931	
6/5/75 10,000	14 days PBTB: 10,000' Present Operations: Waiting on crew to swab. This AM 10 hr SI, no pressure, small blow gas Remarks: Swab while waiting on acid. Rec 1/2 bbl load H ₂ O, 8,600'. Acidized with 35 bbls acid and displaced with 45 bbls H ₂ O. Max pressure 4000# @ 1/2 Bpm. Drop 3000# 2-1/2 Bpm acid on formation. SI, 10 min 2200#. Bled off, unload 35 bbls load water, swab 4 times to 6,000' Rec 45 bbls load water and acid water. SI overnight.	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
6/6/75 10,000	<p>16 days PBSD: 10,000' Present Operations: Swabbing Remarks: Packer 9,862', fluid this AM 3,500', SITP 25#, 14-1/2 hrs. Swab (6,600"). Swab to 9,600' (10 bbls), 165,000 CaCl, flow 1 hr. SI 5 hrs. Hole fill 3,600' fluid, 6,000' swab to 9,600'. SI 14-1/2 hrs. Total fluid swabbed since acid treatment 110 bbls. Last coal sample 95,000 Ppm. DC: \$1,071 Comp: \$45,201 CC: \$1,708,262</p>	
6/7/75 9,880	<p>17 days PBSD: 9,890' (9,880') 10' cement Present Operations: Prep to RIH with packer and tubing, fluid level surface 0#. Remarks: Swab 6,000', rec form H₂O, POOH with packer 4 hrs. Rig wire-line truck, set BP, 9,890', perf 9,852-56', 9,838-43', 9,822-29', 9,792-97', 4/ft. 10' cement on BP, SI overnight 8 hrs. Will set packer @ 9,737' and swab. DC: \$5,935 Comp Cost: \$51,136 CC: \$1,759,398</p>	
6/8/75 9,880	<p>18 days PBSD: 9,880' Present Operations: Swabbing, no fluid Remarks: Packer @ 9,739', fluid level 8,500', SITP 40#, 13-1/2 hrs. Open 10' flare, burn out 15 min. Swab 9,200' 2 hr SI, 0# TP. DC: \$1,471 Comp Cost: \$52,607 CC: \$1,630,791</p>	
6/9/75 9,880	<p>19 days PBSD: 9,880', packer 9,739' Present Operations: Ran swab Remarks: Fluid level 9,699' (40' above packer) load water 140,000 PPM. SITP 40# 14 hrs this AM (10' flame 10 min). Yesterday ran swab 9,600' rec load water (10 or 15 gal rec), open 4 hrs. Tag packer with swab, no rec, SI 2 hrs. TP 0#, open 4 hrs. Ran swab no rec.</p>	
6/10/75 9,880	<p>20 days PBSD: 9,880' Present Operations: Flowing well Remarks: 14 hr SI, 40#, swab to 9,739' 3 times. Fluid (5 gal) SI, 20# 3 hrs caught gas sample, acidized perfs @ 9,792-96', 9,822-28', 9,838-42', 9,852-55', use 100 balls. Initial 4500#, drop 4000#, SI 2500#, open and swab to 4,000', unload, flow 3-1/2 hrs with 1" choke. Initial FP 480#, final 200#. Est initial flow 2000 Mcf, final 800 Mcf Dry, SI 10 hrs, 1020#. DC: \$3,022 Comp Cost: \$57,200 CC: \$1,635,384</p>	
6/11/75 9,880	<p>21 days PBSD: 9,880' Present Operations: Prep to run swab Remarks: Packer 9739' - SI TP 350# 9 hrs. This AM bled down - Rate from 1,700 MCFPD to 0 in 15 min. Flow well 4 hours, rec. 20 gal fluid - FP drop from 400# psi to 30# psi - thru 1" choke SI 1 hr. SI tP 400# - Flow 1 hr. Start 150# FP to 30# FP - SI 4 hrs. 650# - flow 3 hrs. FP dropped to 10# thru 1" - Install Flow Prover - Rate 85.5 MCFPD to 63.5 MCFPD 3 hrs. FFP 20# 1/2" Orifice.</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
6/12/75	9,880	<p>22 days Present Depth: 9,880' (packer 9,739') Present Operations: Swabbing to the packer Remarks: Rec 25 gal water, 184,000 PPM, SI 350# 9 hrs. Open bled from 1,700 MCF to 0 in 15 min. Swab 4 runs, rec 5 bbls acid water, flow 20 hrs. 3/8" plate, stab 26.8 MCFFPD. Prep to acidize with 5,000 gal, ran swab this AM, rec 25 gal acid water. DC: \$1,469 Comp Cost: \$54,964 CC: \$1,638,148</p>
X 6/13/75	9,880	<p>23 days PBTB: 9,880' (packer 9,739') Remarks: Acidized with 2500 gal 28%, displaced 41 bbls salt H₂O, rate 2 BPM on acid and 3-1/2 displacement @4000#, pump 2500 gas acid, 28%. Displaced 41 bbls salt H₂O @ 3-1/2 BPM, 4,000#, SI 45 min. Pressure dropped to 2000#, swab, rec 120 bbls acid and saltwater load. Flow @ 47.4 to 33.7 MCF rate, 1/2" orifice, FP 20#. This AM SI 14 hour, bled off 10 min. Gas TSTM, prep to swab.</p>
6/14/75	9,770	<p>24 days PBTB: 9,770' Remarks: 4 swab runs, rec 3 bbls, Cl 188,000 PPM, POOH with tubing. Set BP @ 9,770'. Hole took fluid after unseat packer, 42 bbls to fill hole after POOH with packer. Set plug, perf 9,724', 50' 4PF, POOH with perf gun. Plan to set packer @ 9,663'. DC: \$1,439 Comp Cost: \$59,319 CC: \$1,642,503</p>
6/15/75	9,770	<p>25 days PBTB: 9,770' (packer 9,765') Present Operations: Swabbing Remarks: TP 210#, 12-1/2 hrs. Fluid level 6,500', swab down, Cl 175,000 PPM. Gas rate 500 Mcfpd, bleeding off, 20 min dead, TSTM, swab down after perf 108 holes, 9,724-751', small show gas TSTM. DC: \$6,451 Comp Cost: \$65,770 CC: \$1,648,954</p>
6/16/75	9,770	<p>26 days PBTB: 9,770' (packer 9,675') Present Operations: Testing perfs 9,724-750' Remarks: SI 210#, fluid 6500, swab to packer, Cl 175,000 PPM, perfs 9,724-751', gas 156 Mcfpd. 2 hrs, SI 3-1/2 hrs. 30 min 60#, 60 min 75#, 90 min 105#, 120 min 140#, 150 min 155#, 180 min 180#, 3-1/2 hrs. 200#. Acidized 2000 gal 28%, 43 bbls load water, 3000# acid in form, broke to 1200#, displaced built up to 3000#, broke to 2200#, built to 3000#, SI 1360# after 20 min. Swab back to packer 68 bbls fluid, small acid gas kick last run, flow 3 hrs, SI 6-1/2 hrs, SI 520#. DC: \$4,051 Comp Cost: \$69,821 CC: \$1,641,413</p>

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
6/17/75 9,770	27 days PBTB: 9,770' (packer @ 9,675') Perfs 9,724-750' Present Operations: Testing Remarks: SI 510#; swab 6 bbls acid H ₂ O to packer depth. Flow test 5-1/2 hrs. Max 180 Mcfpd to 41 Mcfpd, swab, rec 20 gal acid H ₂ O, SI 15 hrs-970#, 30 min 90#, 60 min 150#, 90 min 210#, 120 min 350#, 150 min, 380#, 180 min 410#, 210 min 440#, 240 min 480#, 270 min 510#, 300 min 540#, 330 min 570#, 360 min 600#, 390 min 625#, 420 min 650#, 450 min 680#, 480 min 700#, 530 min 720#, next 6-1/2 hrs 970#, next 30 min 985#. Frac called off. DC: \$1,295 Comp: \$75,871 CC: \$1,654,300	
6/18/75 9,770	28 days PBTB: 9,770' Present Operations: Prep to run ret BP Remarks: SI 24 hrs, 1180#. Blow down 30 min, kill well, unseat packer, POOH. DC: \$1,469 Comp: \$77,340 CC: \$1,655,769	
6/19/75 9,689	29 days PBTB: 9,689' Present Operations: POOH to perf Remarks: Ran ret BP @ 9,689', start out of hole with tubing. DC: \$1,201 Comp: \$78,541 CC: \$1,656,970	
6/20/75 9,701	30 days PBTB: 9,701' Present Operations: POOH to run test packer Remarks: Pull tubing and perf 9,665-68', 9,576-84', 9,621-31'. Kicked gun up hole on last perfs 40', gun stuck, worked loose, gun stopped @ 9,580'. POOH, WIH with tubing, circ out to 9,681'. Circ out heavy mud, POOH with tubing to run test packer. Well kicking gas while circ out, flare gas, this AM 140# CP. DC: \$4,958 Comp: \$83,449 CC: \$1,661,928	
6/21/75 9,701	31 days PBTB: 9,701' Present Operations: Prep to swab to packer Remarks: Packer 9,555', bridge plug 9,701'. Pull tubing, ran and set packer @ 9,555', swab, fluid to 5,500'. Show gas, load H ₂ O, this AM, surface TP 130#, fluid 5,500', small amount gas TSTM. DC: \$1,417 Comp: \$84,916 CC: \$1,663,345	
6/22/75 9,701	32 days PBTB: 9,701' Present Operations: POOH with tubing Remarks: Swab to 9,000', plug in tubing, plug moved up hole to 7,000' unseat packer, attempt to circ out, could not move plug.	

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
6/23/75 9,701	<p>33 days PBTB: 9,701' Present Operations: Repair pump to circ and clean hole Remarks: Surface pressure 20#, hole pull, full plugged tubing and wash out, WIH with tubing @ 9,640', reverse out, rec mud, shale and gas. Did not clean up, pull to 9,580. DC: \$1,355 Comp: \$87,606 CC: \$1,666,035</p>	
6/24/75 9,701	<p>34 days PBTB: 9,701' Present Operations: Pulling tubing for packer Remarks: Reverse circulated hole 9,640-701', rec 4-5 bbls of black shale with trace of LCM. Circulated hole clean, pulled tubing to 2,400. DC: \$1,415 Comp: \$87,606 CC: \$1,667,450</p>	
6/25/75 9,701	<p>34 days PBTB: 9,701' Present Operations: Testing Remarks: Perfs 9,576-85', 9,621-31', 9,665-69', comp POOH with tubing, PU RTTS packer, WIH, packer @ 9,525', swab to 9,000' (4 hrs). Small amount of gas TSTM, shut down 45 min, ran swab, no fluid rec. 2nd 45 min, rec 1 bbl H₂O, no increase gas, SI overnight 11-1/2 hrs SI 5#. Ran swab, fluid 8,500', plug in tubing @ 9,200'. DC: \$2,150 Comp: \$91,171 CC: \$1,669,600</p>	
6/26/75 9,701	<p>35 days PBTB: 9,701' (perfs 9,576-84', 9,621-31', 9,665-69') Present Operations: Prep to GIH with retainer tool Remarks: Packer @ 9,525', tubing plug 9,200', open RTTS circ valve, packer set, reverse, move plug from 9,200' to 2,500'. Pump in formation with no plug movement. Unseat packer, reverse, no plug movement. wab to 2,500' (shale plug). Pressure tubing to 1200#, plug would not move. POOH with tubing and packer. Shut down for night. DC: \$3,498 Comp: \$94,669 CC: \$1,673,098</p>	
6/27/75 9,701	<p>36 days PBTB: 9,701 (perf 9,576-84', 9,621-31', 9,665-69') Present Operations: Prep to GIH with tubing to wash to plug Remarks: PU retainer tool, WIH with tubing, bridge 9,620'. Reverse circ shale out to 9,630', tag plug, repair pump. Could not move plug, pump in tubing, no movement. Swab to 5000', attempt to reverse circ, could not move plug. POOH to 1,960', plug blew out tubing, reverse and clear. Shut down overnight. DC: \$1,760 Comp: \$96,375 CC: \$1,674,804</p>	

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LEASE / UNIT NAME AND WELL NO.		REGION
Federal Weaver No. 1		Western
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Grand County, Utah		Wildcat
		AFE NUMBER
		9-4370014-4
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
6/28/75 9,600	37 days Bridge Plug: 9,600' (perf 9,576-84') Present Operations: POOH with tubing to run RTTS Remarks: WIH with tubing and ret tool, reverse circ shale and cement from 9,630' to 9,674'. Release BP and reset @ 9,600'. POOH to 6,000'. Hydraulic system failed. DC: \$1,477 Comp: \$97,852 CC: \$1,676,281	
6/29/75 9,600	38 days PBD: 9,600' (perfs 9,576-84') Present Operations: Testing Remarks: POOH with tubing, change out pipe rams, WIH with RTTS packer Set packer @ 9,535', bottom tail pipe 9,567'. Test annulus 1000#, OK. Spot 1000 gal 28% acid, acidized perfs with 100 gal, broke 2000#, pump in 1/4 bbl this PM. Inc rate 3/4 Bpm, 3500#, broke 2200# with acid on perfs. Final 4 Bpm @ 3500#, SI 2800#, 15 min 1800#, 60 min 1500#, release, flow back 15 bbls, 0#. Swab to 8,600', well unload, rate 30 Mcfpd. SI 9:30 PM, 9 hr SI 310#. Bled down 10 min, fluid 7,000'. DC: \$4,425 Comp: \$102,227 CC: \$1,680,706	
6/30/75 9,600	39 days PBD: 9,600' (perfs 9,576-584', packer @ 9,535') Present Operations: Testing Remarks: Bled down 10 min, swab from 7,000' to 9,535', rec 10 bbls load water. Swab each 1-1/2 hrs, flow, dec from 30 Mcfpd to 2 Mcfpd, in 8 hrs. SI 6:00 AM, 6/30/75, fluid level 9,000'. DC: \$1,201 Comp: \$103,478 CC: \$1,681,907	
7/1/75 9,600	40 days PBD: 9,600' (perfs open 9,576-84', bridge plug @ 9,600') Present Operations: Trip in hole with perf gun to perf 9,474-90' Remarks: Made 1 swab run, packer @ 9,535', fluid level 9,000'. Swab from packer @ 9,535', rec 1 bbl saltwater. Flow 2 hrs; 2 Mcfpd, 0# TP open choke. Unseat packer, TOH. Rig up Welex, TIH, perf gun would not fire, TOH, shut down overnight. \$2,070 \$105,547 \$1,683,977	
7/2/75 9,550	41 days PBD: 9,550' (retrievable bridge plug) Present Operations: Running in hole with tubing and RTTS packer Remarks: Perf 9,474-490' with 4 jts per ft. Ran tubing with retrieving tool and moved ret bridge plug from 9,600' to 9,550'. POOH with tubing, picked up RTTS tool. RIH to 1,200', shut down overnight. DC: \$4,705 Comp: \$110,253 CC: \$1,688,682	

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COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
Federal Weaver No. 1		Western
Grand County, Utah		Wildcat
		AFE NUMBER 9-4370014-4
7/3/75	9,550	<p>42 days PBSD: 9,550' (perf 9,474-90') Present Operations: POOH with retrievable bridge plug Remarks: RIH with RTTS packer, set @ 9,503', BP @ 9,550'. Press test BP, pump by 2 BPM @ 2300 Psi. POOH with RTTS packer. PU ret tool, RIH, started out of hole with BP. \$1,952 \$112,205 \$1,690,634</p>
7/4/75	9,550	<p>43 days BP: 9,550' (perf 9,474-90') Present Operations: POOH with setting tool Remarks: POOH with BP, Mandrel bent, repaired BP. RIH with BP 9,550', POOH to 1,800. Shut down high wind, rain, lightning. DC: \$1,867 Comp: \$114,072 CC: \$1,692,501</p>
7/5/75	9,550	<p>44 days PB @ 9,550' (perf 9,474-90') Present Operations: POOH with ret tool, PU RTTS. RIH set @ 9,476', would not hold, set @ 9,436', would not hold. POOH to 900', shut down for night. Finished out of hole, pack off element failed. Prep to RIH with new packer. DC: \$3,366 Comp: \$117,438 CC: \$1,695,867</p>
7/6/75	9,550	<p>45 days PB @ 9,550 (perf 9,474-90') Present Operations: Pulled RTTS packer, repaired packer. RIH, set packer @ 9,501', test BP 4500 Psi 10 min. Reset packer @ 9,436' bottom tubing 9,471'. Spotted 1000 gal Dowell 28% HCL. Set packer press annulus 1000 Psi, press tubing to 4000, inc press to 4500, took 1-1/8 bbl 2 hrs. Inc press to 4900, took acid 1/3 bbl/min. Press broke after 2/3 bbl to 2200, PI 3-1/2 BPM, 3300 to 3800 inst SI 2400, 5 min 2100, 10 min 1950, 15 min 1900, 20 min 1900. Let acid set 1 hr. Swabbed fluid to 5000, started making small amount of gas. Swabbed est 12 bbls acid water, shut down. Fluid level 5000, would not flow. This AM press 720, opened to flare, died in 6 min, ran swab fluid @ 4500. DC: \$3,740 Comp: \$121,178 CC: \$1,669,017</p>
7/7/75	9,550	<p>46 days BP: 9,550' (perf 9,474-90') RTTS @ 9,436' Present Operations: Swab from 4500, swab dry 11 runs. Pull 3 swabs @ 1 hr intervals, no fluid. Check gas rate 4-8 PM. Max 3.35 Mcf, dec to TSTM. SI @ 8:00 PM, no build up in 10 hrs. Ran swab, no fluid to 9,500'. DC: \$1,503 Comp: \$122,681 CC: \$1,701,312</p>
7/8/75	9,770	<p>47 days PBSD: 9,770' Present Operations: Filled tubing with water, release packer. POOH with packer and RBP. Attempt to pump sump fluid into hole, unable to pump in @ 1400 Psi. Ran 1200' tubing, shut down for night.</p>

FEDERAL WEAVER #1

The Federal Weaver #1 was drilled by Union Texas Petroleum. The well was spudded on 10-31-72 and directionally drilled to a Md of 8286', TVD of 7623'. Twenty (20") conductor was set at 30' and cemented to surface, 13 3/8" surface casing was set at 312' and cemented to surface, and an intermediate 9 5/8" casing string was set at 4238' and cemented with a total of 660 sks of cement. 8 1/2" hole was drilled to T. D. of 8286'. The well was plugged and abandoned on 3-17-73. Abandonment plugs were set across interval 6680' - 6800' with 40 sks of cement, 4135' - 4250' with 40 sks. of cement, 20 sks. of cement at top of 9 5/8" casing and 10 sks between 9 5/8" and 13 3/8" annulus at the surface.

At a measured depth of 6750' the well started turning to the right and turned from S68°W @ 6750' around to N51°E at the T.D. of 8286'. The drift angle at 6750' was 2°30'. At T.D. of 8286', the drift angle was 9°30'.

Cities Service Oil Company proposes to re-enter the well and deepen the well to a T.M.D. of 10,800' or TVD of 10,150'. At a measured depth of 6750' in the old hole, the well will be vertically drilled to the proposed T.D. of 10,800'. At total depth a Dual Induction or Laterolog, FDC-CNL w/Gamma Ray, BHC Sonic, and a High Resolution Dipmeter will be run. A directional survey will be run to determine bottomhole location. Drill stem tests will be run as shows warrant. If productive, a 5 1/2" production string will be set at T.D. and cemented across the producing interval.

12 POINT PLAN FOR SURFACE USE

CSO - FEDERAL WEAVER #1

1 - EXISTING ROADS:

The existing road into the location (shown in red on the enclosed map) exits Highway 160 in the SE 1/4 of Section 21, T26S, R22E.

2 - PROPOSED ACCESS ROADS:

No new road construction will be necessary.

3 - EXISTING WELLS:

There are no wells within 1/2 mile of the well to be re-entered.

4 - LATERAL ROADS TO WELL LOCATIONS:

None.

5 - LOCATION OF TANK BATTERIES AND FLOW LINES:

Necessary production equipment will be located at the well site.

6 - LOCATION AND TYPE OF WATER SUPPLY:

Salt water will be obtained from existing salt water wells in the Moab area.

7 - METHODS FOR HANDLING WASTE DISPOSAL:

Garbage and waste will be disposed of in covered containers and chemical toilets.

8 - LOCATION OF CAMP:

No camp will be used.

9 - LOCATION OF AIR STRIP:

No air strip will be required.

Continued.

12 POINT PLAN FOR SURFACE USE
CSO - FEDERAL WEAVER #1
Page 2.

10 - LAYOUT OF LOCATION:

The location layout will be a standard one as shown on the enclosed plat with variation as to the drilling company's equipment and requirements.

11 - PLANS FOR RESTORATION OF THE SURFACE:

Location will be constructed with a minimum of dirt work. At the conclusion of the drilling of this well, the road and location will be restored as per the Bureau of Land Managements requirements.

12 - OIOTHER INFORMATION:

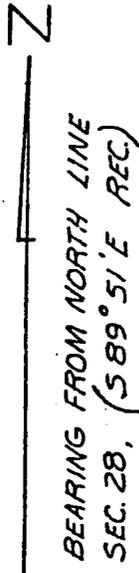
The access road, location and general area will be kept clean at all times, since the location is very near to a town and heavily traveled highway.

PRESSURE CONTROL AND BLOW OUT PREVENTION EQUIPMENT

Cities Service Oil Company proposes to install a 10" - 5000# 9 5/8" casing head on the existing 9 5/8", 40#, N-80 LT & C casing cemented at 4238'. All flanges and spools will meet API Series 1500 specifications. The blowout preventers will consist of pipe rams, blind rams, and an annular preventer, all of which will meet API Series 1500 specification. Pipe rams will be available for the size of drill pipe used in deepening the well. A kill and choke line will be installed on a drilling spool below the preventers. A fill up line will be installed. Auxiliary equipment will consist of a lower kelly cock, pit level indicator, full opening safety valve, and a remote power operated choke. Anticipated maximum bottomhole pressure gradient is less than 0.5 psi/ft. A salt water base mud will be used during the drilling operation.

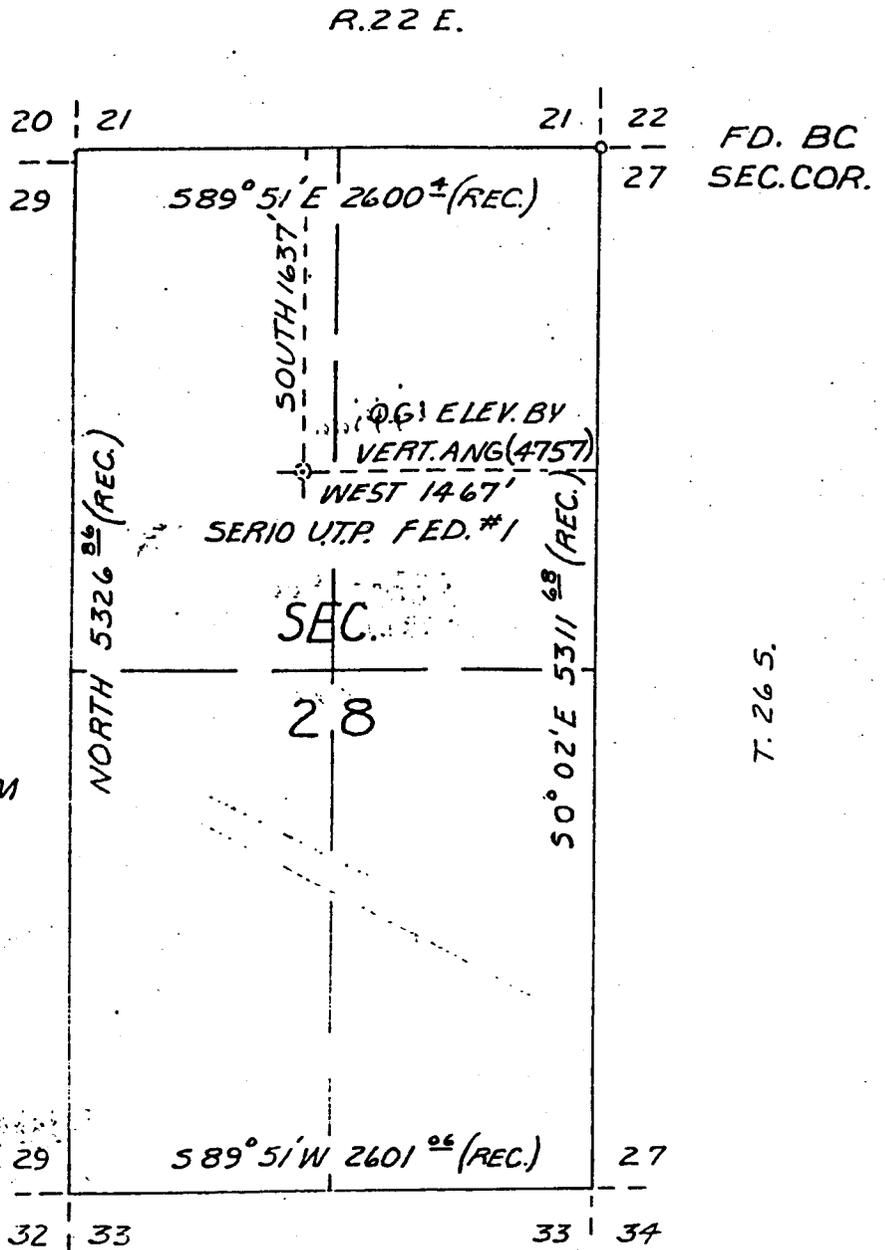
The 9 5/8" casing and blowout preventers will be tested prior to drilling out the abandonment plug across the 9 5/8" casing shoe at 4238'. Blowout preventer equipment will be operated once each day and such tests logged in the daily drilling log.

WELL LOCATION PLAT



SCALE: 1" = 1000'

ELEVATION FROM N.E.
COR. SEC. 28, T.26 S.,
R.22 E., S.L.B. & M.
(4640) SCALED FROM
U.S.G.S. TOPO MAP
CASTLE VALLEY, UTAH
1954

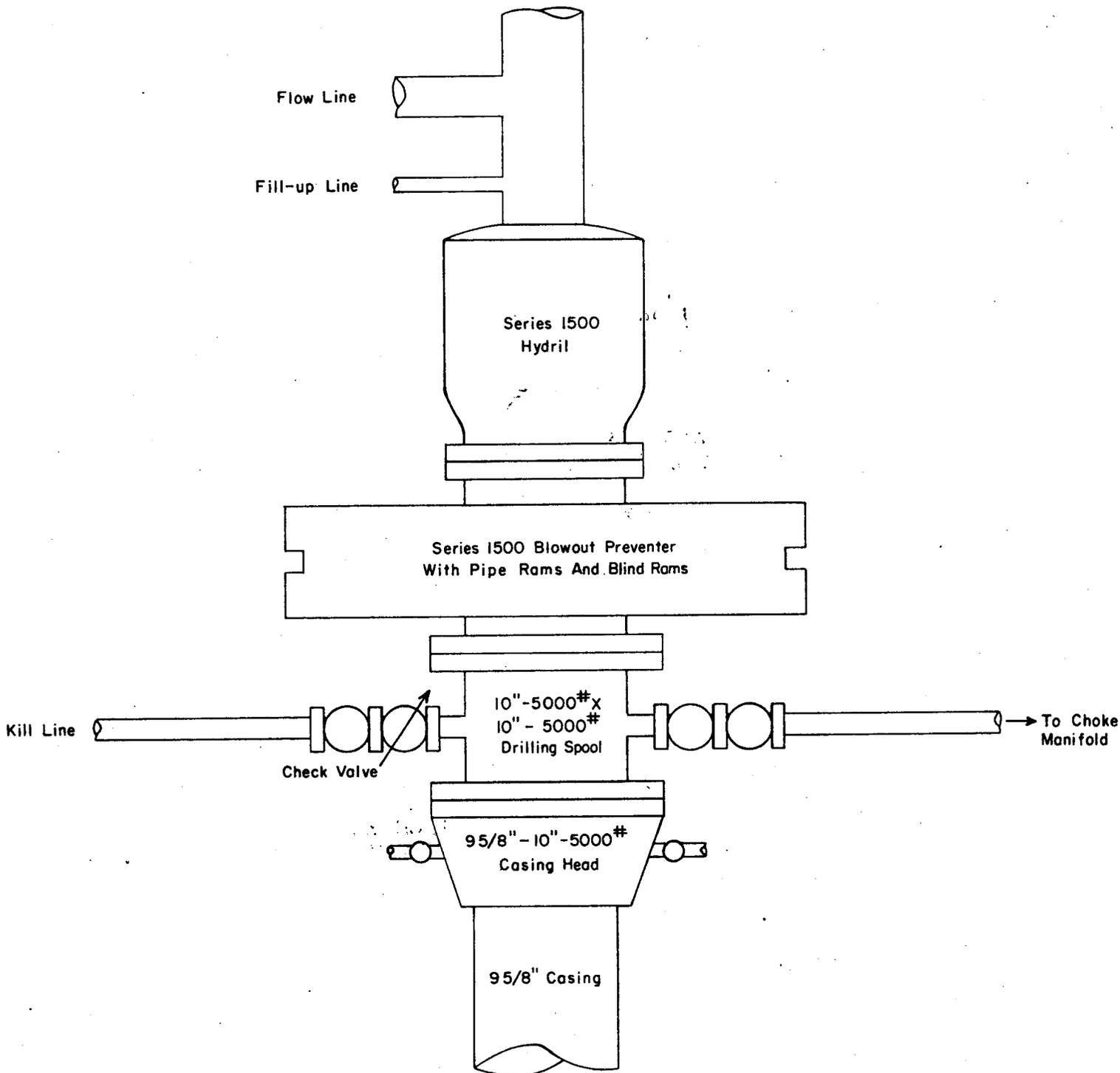


FEDERAL WEAVER #1
IN N. 1/2 SEC. 28,
T.26 S., R.22 E., S.L.B. & M.
GRAND COUNTY, UTAH

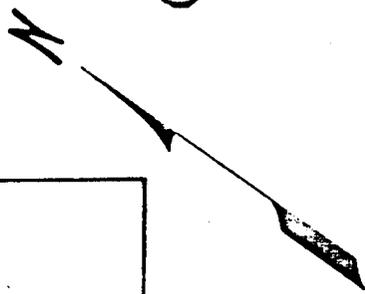
John E. Hoogh
UTAH REG'D. L.S. NO. 1963

BLOWOUT PREVENTER ARRANGEMENT

J.O. Federal Weaver No. 1
Section 28 T26S R22E



NO SCALE



ACCESS ROAD (1/4 MILE TO EXISTING ROAD) ↑

RESERVE PIT
APPROX. 150'X150'

STEEL MUD TANK

STEEL MUD TANK

MUD
PUMPS

DRAWWORKS
&
ENGINES

RIG
○
FLOOR

PIPE RACKS

PIPE RACKS

MUD
STORAGE

○ WATER
TANK

DOG
HOUSE

PIPE RACKS

TRAILER
HOUSE

CITIES SERVICE OIL CO.

FEDERAL WEAVER NO.1
LOT 3 SECTION 28-T26S-R22E

GRAND COUNTY, UTAH

NOTE: LOCATION SIZE
APPROX. 300'X300'

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Test well</p> <p>2. NAME OF OPERATOR Cities Service Oil Company</p> <p>3. ADDRESS OF OPERATOR 1600 Broadway, #900, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467 FEL 4 miles SSW of City of Moab, Utah</p> <p>14. PERMIT NO. 43-019-30113</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. Utah U-147105 & U-24586</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME None</p> <p>7. UNIT AGREEMENT NAME None</p> <p>8. FARM OR LEASE NAME CSO - Federal Weaver</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28-T26S-R22E</p> <p>12. COUNTY OR PARISH Grand</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4757 GR</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input 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 Operation</u>	
(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.)*

12/31/74 to 1/31/75
Drilling to 9,669'

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

SIGNED J. O. Scott TITLE Engineering Manager DATE March 14, 1975

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Test well		5. LEASE DESIGNATION AND SERIAL NO. U-147105 & U-24586		
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None		
3. ADDRESS OF OPERATOR 1600 Broadway, #900, Denver, Colorado 80202		7. UNIT AGREEMENT NAME None		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467 FEL 4 miles SSW of City of Moab, Utah		8. FARM OR LEASE NAME CSO-Federal Weaver		
14. PERMIT NO. 43-019-30113	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4757 GR	9. WELL NO. 1		
		10. FIELD AND POOL, OR WILDCAT Wildcat		
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 28-T26S-R22E		
		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">12. COUNTY OR PARISH Grand</td> <td style="width:50%;">13. STATE Utah</td> </tr> </table>	12. COUNTY OR PARISH Grand	13. STATE Utah
12. COUNTY OR PARISH Grand	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 Operation</u> <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.) *

2/28/75 to 3/31/75 Drilling to 10,166'

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

SIGNED *[Signature]* TITLE Production Manager DATE 4-4-75

(This space for Federal or State office use)

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



CITIES SERVICE OIL COMPANY

900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Telephone: 303-892-0263

April 9, 1975

Division of Oil and Gas Conservation
Department of Natural Resources
State of Utah
1588 West North Temple
Salt Lake City, Utah 84116

RE: CSO Federal Weaver 1
Sec. 28-T26S-R22E
Grand County, Utah

Gentlemen:

Please find enclosed the progress report on the above referenced well for the monthly period covering 2/28/75 thru 3/31/75.

If there any questions or comments regarding this report, please do not hesitate to contact the undersigned.

Thank you,

B.B. Edwards
Production Manager
Western Region

BBE:ba
Enclosures

PF Z

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Test Well		5. LEASE DESIGNATION AND SERIAL NO. None
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME None
3. ADDRESS OF OPERATOR Suite 900, 1600 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME None
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL and 1467' FEL, 4 miles SSW of City of Moab, Utah		8. FARM OR LEASE NAME CSO Federal Weaver
14. PERMIT NO. 43-019-30113	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4757 GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 28-T26S-R22E
		12. COUNTY OR PARISH Grand
		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 Operations</u>	

(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.)*

3-31-75 to 4-30-75 Drilling to 10,525'
Set 5 1/2" casing at 10,311'

of
Pet
Plan

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

SIGNED J. O. Scott TITLE Engineering Manager DATE 4/30/75

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRI-CAT
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 Test well

2. NAME OF OPERATOR
Cities Service Oil Company

3. ADDRESS OF OPERATOR
900 Colorado State Bank Bldg, 1600 Broadway, Denver CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1637' FNL and 1467' FEL

14. PERMIT NO.
API: 43-019-30113

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4757 GR and 4773 RKB

5. LEASE DESIGNATION AND SERIAL NO.
Utah U-0147105 & U-24586

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
None

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
CSO Federal Weaver

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
28-26S-22E

12. COUNTY OR PARISH
Grand

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>Plug back</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.)*

On May 12, 1975, operations were commenced to plug the open hole section of this well. Total depth was 10,721' (m. d., r. k. b.) with 5-1/2" casing set to 10,311'. A 50 sack plug of neat Class B cement was placed on bottom, which gives a calculated fill-up of 492' to 10,229' in the 5-1/2" casing. On May 13th a cast iron bridge plug was set and rigging down was begun to make way for a completion rig.

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

SIGNED *R. K. Kerner* TITLE Drilling Engineer DATE May 16, 1975

(This space for Federal or State office use)

APPROVED BY *E. J. [Signature]* TITLE PROJECT ENGINEER DATE MAY 18 1975

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

OGCC, Utah

PI



CITIES SERVICE OIL COMPANY

900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Telephone: 303-892-0263

July 9, 1975

PA

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

RE: Federal Weaver No. 1
Grand County, Utah

Dear Sir:

Per your request attached are copies of the chronological drilling record for the subject well from January 31, 1975, through today's date.

If you should need any further information, please let us know.

Sincerely,

R. O. Berg
Western Region

ROB:k1
Attachments

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. <u>U-0147105 & U-24586</u>	
2. NAME OF OPERATOR Cities Service Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR Suite 900, 1600 Broadway, Denver, Colorado 80202		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface <p style="text-align: center;">1637' FNL & 1467' FEL</p>		8. FARM OR LEASE NAME CSO Federal Weaver	
14. PERMIT NO. 43-019-30113		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <p style="text-align: center;">4757' GR</p>		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <p style="text-align: center;">Sec. 28-T26S-R22E</p>	
		12. COUNTY OR PARISH Grand	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 checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Perforations

9474'-90', 64 shots, 1/2"

9576'-84', 32 shots, 1/2"

9621'-31', 40 shots, 1/2"

9665'-68', 12 shots, 1/2"

9724'-50', 104 shots, 1/2"

9792'-97', 20 shots, 1/2"

9822'-29', 28 shots, 1/2"

9838'-43', 20 shots, 1/2"

9852'-56', 16 shots, 1/2"

9910'-17', 28 shots, 1/2"

9024'-31', 28 shots, 1/2"

10070'-10078', 32 shots, 1/2"

10092'-104', 48 shots, 1/2"

10114'-124', 40 shots, 1/2"

Acidized

9474'-9584': 1000 gal, 28% acid

9724'-9750': 2000 gal, 28% acid

9792'-9843': 2500 gal, 28% acid

7910'-9931': 1470 gal, 28% acid

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

SIGNED J. D. Scott TITLE Engineering Manager DATE July 14, 1975

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Plug and Abandon Dry Hole</p> <p>2. NAME OF OPERATOR Cities Service Oil Company</p> <p>3. ADDRESS OF OPERATOR 1600 Broadway, Suite 900, Denver, Colorado 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1637' FNL 1467' FEL N½ Sec. 28 4 miles SSW of City of Moab, Utah</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-0147105 & U-24586</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME CSO Federal Weaver</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 28-T26S-R22E</p>	
<p>14. PERMIT NO. 43-019-30113</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4757' GR</p>	<p>12. COUNTY OR PARISH Grand</p>	<p>13. STATE Utah</p>

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

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

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

Casing as Abandoned:

20", 90 lb/ft conductor, surface to 30': cut off 3 feet below ground level
 13-3/8", 48 lb/ft. surface to 312': cut off 3 feet below ground level
 9-5/8", 40 lb/ft. surface to 4238': cut off 3 feet below ground level
 5-1/2", 17 lb/ft. 4200' to 10,311: cut off upper 4200' with 5-1/2" casing cutter & recovered welded plate on top of 13-3/8" and installed dry hole marker

Plugs:

<p>Plugged Back to 10,164' Cast iron BP at 10,110' Cast iron BP at 10,000' Cast iron BP at 9800' Cast iron BP at 9770' Cast iron BP at 9400'</p> <p>No zones tested commercial</p>	<p>Cement 9400'-9369': 3 sks Cement plug at 4330'-4100': 150 sks Attempt to pump down 13-3/8" x 9-5/8" annulus failed Spot plug 13-3/8" x 9-5/8" annulus 40'-surface: 18 sks spot plug in 9-5/8" at 30' - surface: 30 sks fluid between plugs: 10.0 lb/gal brine water Plugged and abandoned July 10, 1975 We will notify when location is ready for final inspection.</p>
---	---

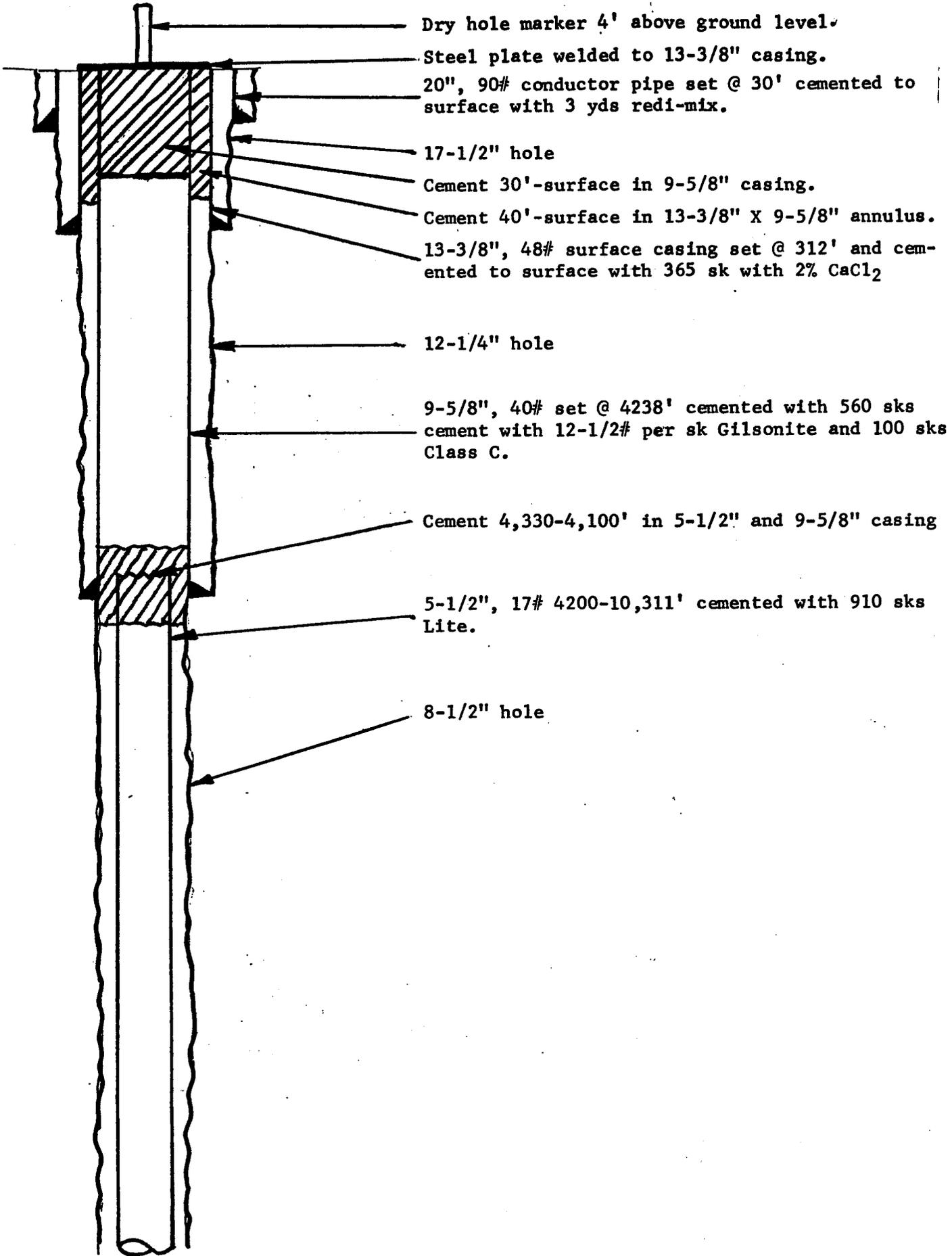
18. I hereby certify that the foregoing is true and correct

SIGNED J. D. Scott TITLE Engineering Manager DATE July 14, 1975

(This space for Federal or State office use)

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

FEDERAL WEAVER NO. 1
Section 28-T26S-R22E
Grand County, Utah





900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Telephone: 303-892-0263

CITIES SERVICE OIL COMPANY

July 25, 1975

State of Utah
Oil and Gas Conservation Commission
1588 West, North Temple
Salt Lake City, UT 84116

ATTN: Mr. C. B. Feight

RE: Cities Service Oil Co.
Federal Weaver #1
Sec. 28-T26S-R22E
Grand County, Utah

Dear Sir:

Enclosed please find the following documents for the subject well:

Three copies of subsequent report of shooting and acidizing
and test zone schematic

Three copies of subsequent report of abandonment and abandoned
well bore schematic

One copy Mud Log

One Copy of Formation Density Log

One Copy of Dual Laterolog

If you have any questions, please feel free to contact the undersigned
at the above number.

Sincerely,

J. O. Scott
Engineering Manager
Western Region

JOS:ba
Enclosures

ERIC

$$\frac{640 \text{ ac}}{1.571} = \frac{1}{2} \pi r^2$$

407.43 AC

$$\frac{27,878,400}{1.571} = r^2 20.185 \text{ AC} \times 879260.$$

$$\sqrt{17,745,639.7} = 4212.557 \quad (2106)$$

1728.07

42,381 50 SHEETS 1 SQUARE
42,382 100 SHEETS 3 SQUARE
42,383 200 SHEETS 9 SQUARE
MADE IN U.S.A.
NATIONAL

29

8286' MD
7622' TVD
1654 South
1679 West
Close 2356.4

9803'
90.74' N
39.87' E

10,301
N 96.17
E 38.53

1637 FNL

1467 FEL

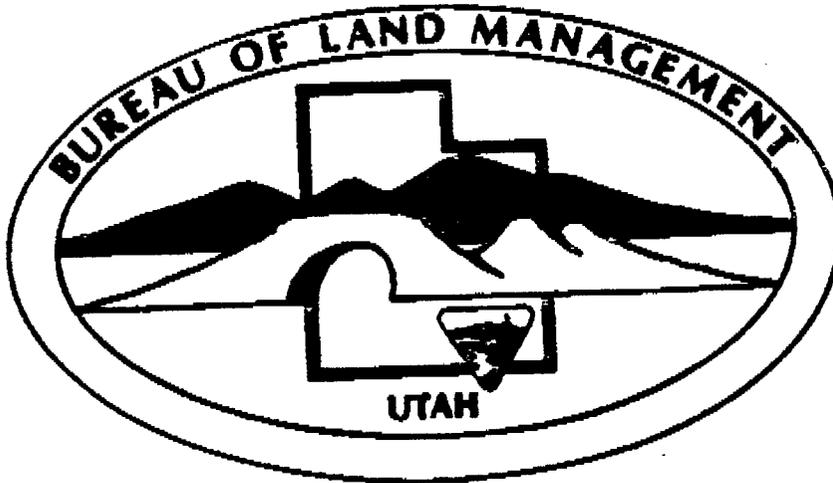
1072

1856 FSL
624 FEL
Sec 29
TVD 7622
MD 8286'

1728.5
96
1632.5 } 1762W
38.53
173 Br S

7176 - 1728 1762W

F A X TRANSMITTAL



To: Lichay Bonaro (DOCM)

From: Verlene Butts

Subject: WCR U - 24586

Number of Pages: 2

FAX Machine No.: _____

Date: 1/31/91

Time: 3:35

USO Log No.: _____

Comments:

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved, Budget Bureau No. 42-R555.5

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

3. NAME OF OPERATOR: Cities Service Oil Company

4. ADDRESS OF OPERATOR: Suite 900, 1600 Broadway, Denver, Colorado 80202

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1637' PNL & 1467' FEL At top prod. interval reported below At total depth same ?

14. PERMIT NO. 43-019-30113 DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO. U-0147105 & U24586

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

7. UNIT AGREEMENT NAME N/A

8. FARM OR LEASE NAME CSO Federal Weaver

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC. T. R. M. OR LOC. AND SURVEY OR AREA 28-26S-22E

12. COUNTY OR PARISH Grand

15. DATE RE-ENTERED 11-15-74 16. DATE T.D. REACHED 5-13-75 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DP, RES, BT, CR, ETC.)* 4757' GR 19. ELEV. CASING HEAD 4162'

20. TOTAL DEPTH 10,721' 21. PLUG, BACK T.D., MD & TVD 10,220' 22. IF MULTIPLE COMPL., HOW MANY? 23. INTERVALS DRILLED BY Rotary 24. PRODUCING INTERVALS OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. HAS FEDERAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual LLS, Com. Neutron, BHC sonic w/Gamma. Comp. Form. Dens. through reservoir 27. WAS WELL CORED No.

CASING RECORD (Report all strings set in well)

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT CEMENT. Rows include 10", 13-3/8", 9-5/8", 5-1/2" casing sizes and cementing details like '3 yds. cmt. to surface' and '660 sks cmt.'

Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD). This is the LINER RECORD section.

Table with columns: PERFORATION RECORD (Interval, size and number), ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Rows include intervals like 9474'-90', 9576'-84', etc., and acid treatments like 'Acidized: 1000 gal., 28% HCl'.

33. DATE FIRST PRODUCTION, PRODUCTION METHOD (Flowing, gas lift, pumping—size of pump), WELL STATUS (Producing or shut-in) Dry Hole

Table with columns: DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., GAS-OIL RATIO. Includes flow test data.

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

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 [Signature] TITLE Engineering Manager DATE 7-14-75

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

W

AM

*

* SCHLUMBERGER *

HIGH RESOLUTION
DIPMETER

43-019-30113

D-7976 RESULT TAPE

HDT-C 4-ARM EPS 6050 PROGRAM

UNION OF TEXAS PETROLEUM

WILDCAT

FEDERAL WEAVER NO. 1

GRAND COUNTY, UTAH

RUN NO. TWO

1-16-73

CORRELATION INTERVAL 8 FT.
STEP LENGTH 4 FT.
SEARCH ANGLE 60 DEGREES X1

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LOG GI	PLA	CLO	MAX
1806	36.6	244	28.1	223	13.7	12.5	*	28	100	82
1810	29.4	191	28.1	223	13.8	12.6	**	47	100	75
1814	69.6	160	28.3	224	13.8	12.6	*	0	100	49
1818	60.1	259	28.3	224	13.9	12.6	**	25	100	51
1822	62.2	267	28.3	224	14.2	12.5	*	0	61	64
1826	18.4	210	28.4	224	14.3	12.4	*	81	100	63
1830	16.0	213	28.5	223	14.3	12.4	**	100	100	72
1834	51.9	226	28.7	223	14.8	12.4	**	13	100	56
1838	47.0	249	28.9	223	15.3	12.6	*	24	100	54
1842	55.2	161	29.1	223	15.2	12.4	**	10	100	61
1846	61.6	168	29.2	223	15.1	12.2	*	0	100	44
1850	59.4	259	29.3	223	15.1	12.2	*	0	100	60
1854	55.0	260	29.4	223	15.0	12.2	*	0	100	45
1858	18.2	211	29.4	222	15.4	12.4	*	11	100	69
1862	74.5	149	29.4	222	15.8	12.5	*	0	36	60
1866	14.2	218	29.5	222	16.0	12.4	**	100	62	68
1870	19.5	218	29.6	223	15.8	12.3	**	100	100	69
1874	9.0	269	29.7	223	15.7	12.2	*	0	19	59
1878	63.4	324	29.8	222	15.5	12.2	*	0	10	62
1882	63.9	325	29.9	223	15.2	12.2	*	0	10	72
1886	19.0	172	30.0	223	14.9	12.4	**	100	100	74
1890	76.0	102	30.0	223	14.5	12.5	*	0	100	76
1894	56.3	258	30.1	223	14.5	12.5	*	0	100	44
1898	52.3	259	30.0	223	14.5	12.5	**	10	100	40
1902	58.8	256	30.0	223	14.8	12.5	**	57	100	62
1906	59.4	259	30.0	224	15.2	12.6	*	0	100	37
1910	32.7	273	30.0	223	15.3	12.5	*	12	11	67
1914	48.5	262	30.0	223	15.2	12.5	*	0	42	48
1918	60.9	263	30.1	223	15.0	12.5	*	0	12	67
1922	NO CORR		30.3	223	14.5	12.4				
1930	11.2	17	30.5	223	14.8	12.4	**	100	100	79
1934	50.3	26	30.4	223	15.0	12.5	*	0	100	84
1938	26.3	83	30.4	222	14.7	12.4	0	0	100	75
1942	29.5	102	30.5	222	14.4	12.4	*	0	100	53
1950	12.7	34	30.7	223	14.3	12.5	*	0	100	75
1954	22.9	57	30.7	222	14.2	12.4	*	0	56	75
1958	12.2	281	30.8	223	14.5	12.4	*	0	100	68
1962	28.3	268	30.8	223	15.2	12.3	**	19	80	80
1966	59.7	343	30.8	223	15.7	12.3	*	12	100	54
1970	60.4	344	30.7	223	15.8	12.3	*	0	100	42

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LO Q GI	PLA	CLO	MAX
1974	87.2	244	30.8	223	16.0	12.2	*	0	12	60
1978	72.7	149	30.9	223	16.1	12.2	*	14	100	41
1982	63.9	161	31.0	223	16.2	12.2	**	15	100	24
1986	53.5	254	31.2	222	16.4	12.2	**	35	100	30
1990	71.1	267	31.3	223	16.4	12.2	*	0	10	44
1994	50.1	205	31.3	223	16.5	12.2	*	0	21	41
1998	45.5	281	31.4	223	16.5	12.2	*	0	100	46
2002	80.1	308	31.5	223	16.5	12.2	**	10	100	41
2006	53.4	36	31.5	222	16.4	12.2	**	10	100	61
2010	66.2	119	31.5	223	16.4	12.1	*	0	10	51
2014	68.2	160	31.6	224	16.2	12.1	*	0	17	31
2018	31.5	220	31.8	223	16.0	12.1	*	0	61	33
2022	59.9	148	31.8	223	16.3	12.1	*	0	10	42
2026	68.9	155	31.8	223	16.3	12.1	*	0	10	41
2030	50.7	248	31.8	224	16.2	12.2	**	20	100	35
2034	72.4	153	31.8	224	16.4	12.2	*	0	10	25
2038	63.3	278	31.9	223	16.5	12.1	*	0	52	38
2042	66.1	288	32.0	223	16.6	12.1	*	0	31	48
2046	62.2	299	32.0	222	16.8	12.0	**	45	100	41
2050	49.1	209	32.0	222	16.9	12.0	*	0	54	41
2054	66.3	282	32.1	223	17.1	12.0	*	0	100	43
2058	53.1	238	32.1	223	17.2	12.0	*	0	25	54
2062	61.8	297	32.2	223	17.0	12.0	*	0	100	41
2066	25.1	237	32.4	224	17.1	12.0	*	0	13	50
2070	16.8	250	32.5	223	17.1	12.1	A	100	100	39
2074	73.6	277	32.5	223	17.2	12.1	C	0	100	45
2078	74.4	291	32.6	223	17.2	12.1	A	0	100	33
2082	64.8	286	32.7	223	17.4	12.1	**	10	53	34
2086	71.2	153	32.8	223	17.5	12.0	*	0	22	46
2090	48.9	215	32.9	223	17.5	12.1	**	11	100	50
2094	63.3	277	33.0	223	17.6	12.1	*	0	32	34
2098	57.1	276	33.2	223	17.6	12.1	*	0	13	44
2102	31.9	89	33.3	224	17.6	12.1	*	0	26	46
2106	71.9	153	33.3	223	17.7	12.1	*	0	0	32
2110	71.4	153	33.4	223	17.7	12.2	**	15	100	29
2118	61.6	110	33.5	224	17.3	12.3	*	10	100	69
2122	59.5	108	33.5	224	16.8	12.3	**	24	100	60
2126	70.8	154	33.5	223	16.7	12.3	*	100	0	71
2130	81.3	316	33.5	223	16.5	12.2	**	10	100	57
2138	63.1	276	33.6	223	15.9	12.4	*	0	10	58

* DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LO 0 GI	PLA	CLO	MAX	*	
* 2142	77.8	169	33.7	224	15.4	12.5	*	0	33	57	*	
* 2146	65.1	282	33.7	224	15.3	12.5	*	0	11	48	*	
* 2150	70.5	289	33.9	224	14.9	12.5	*	0	0	52	*	
* 2154	85.4	122	33.9	224	14.8	12.4	**	*	14	100	62	*
* 2158	20.7	80	33.8	224	15.1	12.4	*	0	11	60	*	
* 2162	24.9	71	33.9	223	15.3	12.4	*	0	84	52	*	
* 2166	65.1	330	34.0	223	15.4	12.3	*	10	10	50	*	
* 2170	48.1	77	34.0	223	15.6	12.4	*	0	13	54	*	
* 2174	10.2	282	34.1	223	15.9	12.4	*	10	100	57	*	
* 2178	80.1	127	34.1	223	16.4	12.4	**	*	11	100	59	*
* 2182	60.9	341	34.1	224	16.7	12.5	**	*	10	62	77	*
* 2186	76.5	41	34.2	224	16.7	12.6	*	0	100	47	*	
* 2190	41.3	218	34.4	224	16.5	12.5	**	*	10	100	49	*
* 2194	49.2	109	34.7	223	16.3	12.4	**	*	10	100	63	*
* 2198	32.5	313	35.0	223	16.1	12.3	*	0	10	60	*	
* 2202	80.9	275	35.0	224	16.2	12.4	*	0	25	56	*	
* 2206	60.4	217	34.9	224	16.6	12.4	*	10	100	54	*	
* 2210	51.1	78	35.1	225	16.6	12.5	**	*	11	100	44	*
* 2214	59.6	280	35.3	226	16.6	12.5	*	0	100	43	*	
* 2216	63.8	223	35.6	225	16.5	12.5	*	0	100	49	*	
* 2220	42.3	73	35.7	224	16.5	12.5	*	100	77	63	*	
* 2224	40.2	77	35.8	224	16.6	12.4	*	0	55	76	*	
* 2228	43.0	56	35.8	224	16.7	12.3	*	0	84	66	*	
* 2232	36.4	50	35.8	224	17.0	12.2	*	0	10	74	*	
* 2236	41.3	209	35.9	224	17.4	12.0	**	*	10	100	59	*
* 2240	26.1	43	35.9	225	17.7	12.1	**	*	25	100	58	*
* 2244	29.6	44	35.9	226	17.7	12.4	*	20	43	56	*	
* 2248	57.6	274	36.1	225	17.8	12.5	*	0	12	33	*	
* 2252	64.7	249	36.3	224	18.0	12.2	*	0	100	31	*	
* 2256	30.3	108	36.5	224	18.0	12.0	**	*	66	50	49	*
* 2260	82.3	135	36.6	224	17.9	12.1	*	52	38	37	*	
* 2264	27.7	90	36.7	223	17.8	12.1	**	B	31	94	62	*
* 2268	26.1	100	36.8	224	17.6	12.1	**	*	35	100	50	*
* 2272	71.1	302	36.8	225	17.2	12.2	**	*	10	100	43	*
* 2276	71.0	302	36.9	225	16.8	12.2	**	*	10	100	46	*
* 2280	45.2	213	37.0	224	16.5	12.3	*	0	27	44	*	
* 2284	75.7	135	37.1	225	16.2	12.4	*	0	28	47	*	
* 2288	72.6	130	37.0	224	16.0	12.5	*	20	100	64	*	
* 2292	88.7	304	37.0	224	16.1	12.5	*	100	0	55	*	
* 2296	41.4	123	37.1	225	16.6	12.4	*	0	0	60	*	

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*****
* DEPTH  DIP  DIP  DEV  DEV  DIAM  DIAM  LO  Q  PLA  CLO  MAX  *
*          AZM          AZM  1-3  2-4  GI          *
*****
*
* 2300  79.1  310  37.0  225  16.9  12.4  *  0  27  36  *
* 2304  58.3  277  36.9  225  16.9  12.3  *  0  26  63  *
* 2308  83.9   65  36.9  224  17.2  12.2  *  0  11  55  *
* 2312  76.3  140  36.9  224  17.3  12.2  *  0  37  58  *
* 2316  85.0   67  36.8  224  17.3  12.2  *  0  100  69  *
* 2320  36.5  190  36.7  225  17.4  12.2  ** *  10  100  43  *
* 2324  74.4  300  36.7  225  17.7  12.1  *  0  35  45  *
* 2328  86.1   62  36.8  225  18.0  11.9  *  0  13  57  *
* 2332  40.7  152  36.9  225  18.0  11.8  ** *  10  100  45  *
* 2336  79.5  309  36.8  225  18.0  11.8  *  0  100  35  *
* 2340  44.8  212  36.8  225  18.0  11.7  *  11  100  54  *
* 2344  NO CORR  36.8  223  18.0  11.7  *  *  *  *  *
* 2348  81.1   71  36.9  223  18.0  11.8  *  0  100  70  *
* 2352  31.5  207  36.9  225  18.0  11.7  ** *  10  100  33  *
* 2356  45.7   69  36.9  225  18.0  11.8  *  0  0  68  *
* 2360  79.8  291  36.8  224  17.9  11.8  *  0  14  37  *
* 2364  58.9  217  36.8  224  17.8  11.9  *  10  28  53  *
* 2368  30.1  175  36.7  223  17.6  11.9  *  0  16  48  *
* 2372  30.3  177  36.6  224  17.4  12.0  *  0  100  57  *
* 2376  44.0  285  36.6  226  17.0  12.0  *  0  100  60  *
* 2380  70.8  293  36.5  224  16.6  12.1  *  0  22  20  *
* 2384  61.5  283  36.3  224  16.5  12.1  *  14  100  65  *
* 2388  61.7  285  36.2  225  16.4  12.1  *  12  100  63  *
* 2396  69.6  268  36.1  225  16.1  12.2  *  0  100  46  *
* 2400  30.5   98  35.9  224  16.0  12.2  *  100  0  57  *
* 2404  79.0  121  35.7  223  15.9  12.2  ** *  13  100  38  *
* 2408  65.6  307  35.6  223  15.9  12.3  ** *  10  100  33  *
* 2412  41.1  334  35.4  224  15.8  12.3  *  0  100  60  *
* 2416  35.1  211  35.3  223  15.5  12.3  ** *  10  100  40  *
* 2420  53.7  178  35.3  223  15.4  12.3  *  0  23  46  *
* 2424  53.7  252  35.3  223  15.5  12.4  *  0  54  58  *
* 2428  74.0  304  35.2  224  15.5  12.5  *  75  27  40  *
* 2432  66.1  211  35.0  225  15.4  12.4  *  10  100  52  *
* 2436  31.6  344  34.9  225  15.3  12.5  *  0  100  51  *
* 2440  72.3  268  34.8  225  15.1  12.6  *  10  100  58  *
* 2444  77.3  286  34.8  224  14.7  12.5  *  25  100  63  *
* 2448  60.7  274  34.8  224  14.4  12.5  *  0  20  39  *
* 2452  52.4  199  34.5  224  14.3  12.5  *  0  39  29  *
* 2456  76.1  302  34.4  224  14.2  12.4  *  0  100  51  *
* 2460  85.7  170  34.3  224  14.1  12.4  *  0  85  6  *
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*****
* DEPTH  DIP  DIP  DEV  DEV  DIAM  DIAM  LO  O  PLA  CLO  MAX  *
*          AZM          AZM  1-3  2-4  GI          *
*****
*
* 2464  70.0   58 34.3  224  14.1  12.3      * 0  28  37  *
* 2468  59.3  139 34.2  224  14.1  12.3      * 0  10  22  *
* 2472  36.4   43 34.1  225  14.1  12.4      * 0  10  49  *
* 2476  77.5  126 34.0  225  14.0  12.5      * 0   0  21  *
* 2480  NO CORR      34.0  224  14.0  12.5      *
* 2484  17.6  179 33.9  224  13.8  12.5      * 0  16  14  *
* 2488  NO CORR      33.9  224  13.6  12.5      *
* 2492  48.6  185 33.8  223  13.5  12.5      * 0  19  30  *
* 2496  38.4  283 33.7  224  13.6  12.4      * 0 100  45  *
* 2500  61.7  295 33.7  224  13.7  12.5      ** * 10 100  30  *
* 2504  NO CORR      33.5  224  13.7  12.4      *
* 2508  63.5  281 33.4  225  13.8  12.4      * 0   0  38  *
* 2512  49.2  231 33.3  225  13.9  12.4      ** * 10 100  19  *
* 2516  49.1  269 33.3  225  13.9  12.4      * 0 100  24  *
* 2520  39.3  294 33.4  224  13.8  12.4      * 0  16  39  *
* 2524  NO CORR      33.4  223  13.7  12.4      *
* 2528  53.0   21 33.4  223  13.6  12.4      * 0  10  51  *
* 2532  69.4  293 33.4  223  13.8  12.3      ** * 12 100  36  *
* 2536  54.2  269 33.4  224  14.1  12.3      * 60 100  35  *
* 2540  51.4  292 33.5  225  14.1  12.3      * 0 100  29  *
* 2544  58.8  265 33.5  225  14.1  12.5      * 0   0  22  *
* 2548  56.8  264 33.5  224  13.8  12.5      * 0 100  41  *
* 2552  55.7  265 33.6  223  13.6  12.5      ** * 25  66  26  *
* 2556  56.0  260 33.7  223  13.6  12.5      * 0   0  32  *
* 2560  56.0  260 33.8  223  13.7  12.4      * 0   0  41  *
* 2564  79.6  233 33.9  222  13.9  12.4      * 0  13  44  *
* 2568  71.3  297 33.9  223  14.3  12.4      ** * 13 100  24  *
* 2572  56.5  301 34.0  224  14.5  12.4      * 0 100  27  *
* 2576  53.6  259 34.1  224  14.7  12.4      ** * 10 100  25  *
* 2580  66.5  291 34.2  224  14.8  12.4      ** * 24 100  33  *
* 2584  66.9  301 34.3  224  14.5  12.4      * 0  64  15  *
* 2588  63.6  219 34.5  224  14.2  12.4      * 0 100  44  *
* 2592  66.6  285 34.6  224  14.3  12.4      ** * 11 100  20  *
* 2596  68.1  147 34.8  223  14.4  12.4      ** * 10 100  22  *
* 2600  NO CORR      34.8  224  14.5  12.4      *
* 2604  85.8  152 34.8  223  14.4  12.5      * 0   0  14  *
* 2612  57.1  261 34.9  223  14.1  12.5      * 0 100  25  *
* 2616  72.0  263 35.1  223  14.0  12.5      * 0  10  24  *
* 2620  58.2  269 35.2  223  13.8  12.5      * 0 100  29  *
* 2628  49.4  228 35.3  224  13.7  12.5      * 0  44  24  *
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DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LO 0 GI	PLA	CLO	MAX
2632	59.7	289	35.4	223	13.6	12.5	*	0	10	28
2636	83.6	127	35.4	223	13.6	12.5	**	10	51	19
2640	64.3	255	35.5	224	13.7	12.5	*	0	10	26
2644	37.5	74	35.6	224	13.7	12.5	*	0	15	59
2648	40.9	75	35.6	223	13.5	12.5	*	0	33	65
2652	47.4	240	35.7	223	13.4	12.5	*	0	12	42
2656	60.4	207	35.8	224	13.3	12.4	*	0	0	54
2660	51.8	186	35.8	224	13.2	12.4	*	0	100	44
2664	69.0	269	35.8	224	13.2	12.4	*	0	10	65
2668	79.7	292	35.9	224	13.2	12.5	*	0	100	46
2672	NO CORR		35.9	224	13.1	12.5				
2676	85.7	302	36.0	224	13.0	12.4	**	56	100	43
2680	56.7	270	36.2	224	12.9	12.4	*	0	10	16
2684	84.0	297	36.9	223	13.0	12.4	*	0	35	23
2688	85.9	323	37.0	224	13.0	12.5	*	0	47	25
2692	NO CORR		36.5	224	13.1	12.4				
2696	48.6	244	36.2	224	13.0	12.4	*	0	0	32
2700	NO CORR		36.3	224	13.1	12.4				
2704	88.6	299	37.0	223	13.1	12.4	*	0	100	29
2708	41.1	233	37.1	223	13.0	12.4	**	15	99	23
2712	74.0	268	37.3	224	13.1	12.4	*	0	100	24
2716	71.0	303	37.4	224	13.1	12.5	*	0	100	34
2720	NO CORR		37.5	224	13.0	12.4				
2724	41.1	237	37.6	224	13.0	12.4	**	17	100	68
2728	43.4	183	37.8	224	13.0	12.5	*	0	0	42
2736	50.1	258	37.9	224	13.0	12.5	*	0	100	77
2740	17.0	215	38.0	224	13.0	12.5	**	100	100	73
2744	76.8	143	38.1	225	13.0	12.5	**	11	100	41
2752	14.8	218	38.2	223	13.1	12.5	*	10	100	74
2756	87.9	316	38.3	224	13.1	12.4	0	0	74	48
2760	44.2	202	38.4	224	13.1	12.4	*	0	20	49
2764	35.6	243	38.5	224	13.1	12.4	*	100	100	65
2768	71.1	176	38.7	225	13.1	12.4	**	11	100	33
2772	64.8	261	38.9	225	13.0	12.5	*	0	10	44
2776	17.8	222	39.1	224	13.0	12.5	0	0	100	51
2780	32.5	265	39.3	224	13.0	12.4	*	0	46	49
2784	69.3	127	39.3	224	13.0	12.4	**	10	83	57
2788	86.1	88	39.4	224	13.0	12.4	*	0	14	35
2792	31.9	244	39.5	224	13.0	12.5	**	19	53	81
2796	32.7	245	39.5	224	12.9	12.5	**	51	100	79

DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LO 0 GI	PLA	CLO	MAX
2800	34.1	247	39.6	224	12.9	12.5	** *	100	100	89
2804	19.0	235	39.7	224	13.0	12.5	** *	100	100	62
2808	18.9	234	39.7	224	13.0	12.5	*	0	100	63
2812	23.1	230	39.7	224	13.1	12.4	*	0	100	57
2816	25.9	232	39.7	224	13.3	12.4	*	10	100	48
2820	58.9	196	39.7	224	13.5	12.4	*	0	100	40
2824	28.1	243	39.8	225	13.5	12.4	** *	37	86	51
2828	34.9	216	39.9	224	13.4	12.4	*	0	60	55
2832	35.7	184	40.0	223	13.4	12.4	*	0	100	54
2836	23.5	227	40.1	224	13.5	12.4	*	0	100	43
2840	25.0	237	40.2	224	13.6	12.4	*	0	34	49
2844	48.4	258	40.3	224	13.7	12.4	*	0	10	40
2848	43.1	255	40.3	224	13.7	12.4	** *	10	100	52
2852	83.6	133	40.4	223	13.7	12.4	*	0	100	53
2856	77.8	288	40.4	223	13.7	12.4	*	0	100	38
2860	28.6	238	40.4	223	13.6	12.4	** *	33	100	71
2864	24.3	216	40.5	223	13.3	12.5	** *	52	100	76
2868	22.8	238	40.5	223	13.4	12.4	** *	100	100	72
2872	23.3	239	40.5	223	13.4	12.3	*	100	100	64
2876	23.4	224	40.4	223	13.2	12.3	*	0	100	65
2880	25.0	236	40.2	223	13.5	12.3	*	10	100	62
2884	31.5	251	40.1	223	13.8	12.3	*	0	100	62
2888	15.8	233	40.1	222	13.5	12.3	*	0	20	53
2892	14.6	233	40.0	222	13.3	12.3	*	13	100	53
2896	46.0	255	40.0	223	13.4	12.3	*	0	100	53
2900	23.7	244	40.0	222	13.3	12.3	*	100	100	62
2908	NO CORR		39.8	222	14.0	12.3				
2912	86.1	299	39.7	222	14.1	12.3	** *	60	100	53
2916	42.2	260	39.7	223	13.9	12.3	*	0	100	77
2920	65.7	261	39.6	223	13.7	12.3	*	60	100	60
2924	15.8	247	39.7	223	13.4	12.3	*	0	100	54
2928	50.1	258	39.6	223	13.1	12.4	*	0	100	72
2932	50.3	258	39.5	222	13.0	12.4	*	0	20	62
2936	27.9	229	39.4	223	13.0	12.5	** *	43	81	80
2940	61.7	161	39.3	223	12.9	12.4	*	0	15	60
2944	48.0	255	39.3	222	12.9	12.4	*	12	17	53
2948	6.4	211	38.7	222	13.1	12.4	*	11	0	59
2956	89.2	322	39.0	222	13.4	12.3	*	0	100	75
2960	69.1	292	38.9	222	13.4	12.3	*	0	0	73
2964	15.3	223	38.9	222	13.3	12.3	** *	100	100	71

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*****
*   DEPTH   DIP  DIP  DEV  DEV  DIAM  DIAM  LO  Q  PLA  CLO  MAX  *
*           AZM      AZM    1-3  2-4  GI          *
*****
*
*   2968   14.4  231  38.9  222  13.2  12.4  **  *  100  100  60  *
*   2972   45.1  252  38.8  222  13.0  12.4  **  *   69  100  73  *
*   2976   20.4  246  38.8  223  13.0  12.3  **  *   63  100  74  *
*   2980   21.1  223  38.7  223  13.2  12.3  **  *   64  100  41  *
*   2984   87.8  142  38.7  222  13.5  12.3  **  *   94  100  27  *
*   2988   20.1  227  38.6  222  13.8  12.2  **  *    10   0  57  *
*   2992   79.3  134  38.5  222  13.9  12.2  **  *   64  100  44  *
*   2996   67.8  178  38.5  223  14.0  12.2  **  *    0  15  56  *
*   3000   74.5  286  38.5  222  13.7  12.2  **  *   23  100  36  *
*   3004   64.5  156  38.5  222  13.6  12.3  **  *    0  12  54  *
*   3008   79.6    8  38.5  222  13.7  12.3  **  *    0  11  36  *
*   3012   60.8  290  38.5  223  13.4  12.3  **  B   10  100  33  *
*   3016   22.5  243  38.4  223  13.2  12.3  **  C    0  100  44  *
*   3020   20.3  218  38.3  222  13.1  12.3  **  B    0  100  60  *
*   3024   20.5  213  38.3  222  13.1  12.3  **  *   17  100  63  *
*   3028   66.0  265  38.4  223  13.1  12.3  **  *    0  100  53  *
*   3032   29.6  231  38.3  223  13.4  12.3  **  *    0  15  49  *
*   3036   18.3  230  38.2  222  13.6  12.4  **  *   14  100  74  *
*   3040   17.6  224  38.1  222  13.3  12.4  **  *    0  100  70  *
*   3044   18.1  239  38.0  222  13.1  12.4  **  *  100  100  75  *
*   3048   30.1  250  38.0  222  13.0  12.4  **  *    0  100  92  *
*   3052   20.8  225  38.0  222  13.0  12.4  **  *  100  100  61  *
*   3056   18.4  225  37.9  223  13.0  12.4  **  *  100  100  68  *
*   3060   18.3  235  37.9  222  13.1  12.4  **  *   41  100  78  *
*   3064   13.0  219  37.9  222  13.3  12.3  **  *   46  100  73  *
*   3068   11.0  193  37.8  222  13.5  12.3  **  *  100  100  66  *
*   3072   79.3  263  37.7  222  13.5  12.3  **  *    0  100  46  *
*   3076   12.9  220  37.7  222  13.5  12.3  **  *  100  100  76  *
*   3080   26.8  218  37.7  223  13.3  12.3  **  D  100  100  49  *
*   3084   51.2  257  37.7  222  13.3  12.3  **  *    0    0  82  *
*   3088    2.3  108  37.6  222  13.2  12.3  **  A    0  100  66  *
*   3092   31.1  253  37.6  223  13.1  12.3  **  *    0  10  45  *
*   3096   52.5  259  37.5  223  13.1  12.3  **  *  100  100  38  *
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DEPTH	DIP	DIP AZM	DEV	DEV AZM	DIAM 1-3	DIAM 2-4	LO Q	GI	PLA	CLO	MAX
2218	86.7	129	35.3	226	16.5	12.5	**	*	11	100	43
2222	43.7	76	35.5	224	16.5	12.4		*	0	100	58
2226	49.6	65	35.7	225	16.7	12.3		*	0	78	70
2230	17.4	64	35.7	225	16.8	12.3	**	*	80	100	64
2234	63.7	151	35.8	224	17.2	12.1		*	0	100	58
2238	28.5	46	35.8	225	17.7	12.1		*	18	86	75
2242	28.7	47	35.6	225	17.8	12.3		*	0	69	57
2246	63.2	316	35.6	225	17.8	12.5	**	*	10	100	48
2250	72.2	296	35.7	225	17.9	12.3	**	*	10	100	42
2254	44.8	251	35.9	225	18.0	12.0	**	*	10	100	26
2258	41.4	215	36.1	225	17.9	12.1	**	*	12	100	56
2262	58.0	279	36.2	225	17.9	12.0		*	0	12	43
2266	32.8	89	36.4	224	17.7	12.0		*	0	15	63
2270	61.0	279	36.5	225	17.4	12.1		*	0	20	49
2274	70.8	302	36.6	225	17.0	12.2	**	*	10	100	50
2278	76.3	304	36.7	225	16.7	12.2		*	0	100	43
2282	74.8	145	36.7	225	16.4	12.3		*	10	100	46
2286	46.6	189	36.7	225	16.1	12.4	**	*	11	100	36
2290	63.6	288	36.7	225	16.1	12.4	**	*	10	100	47
2294	46.3	187	36.7	225	16.5	12.3	**	*	13	100	62
2298	47.2	185	36.7	224	16.8	12.4	**	*	14	100	50
2302	78.8	142	36.5	225	16.9	12.3		*	10	100	69
2306	84.6	302	36.5	224	17.0	12.2		*	0	11	61
2314	82.3	72	36.5	224	17.2	12.1		*	0	100	56
2318	71.0	267	36.4	225	17.4	12.2		0	10	100	56
2322	85.5	57	36.4	224	17.6	12.1		*	0	100	61
2326	85.4	58	36.6	224	17.9	12.0		*	0	100	60
2330	54.1	270	36.7	225	18.0	11.8		*	0	16	50
2334	44.6	193	36.6	225	18.0	11.8	**	*	28	100	50
2338	46.9	233	36.6	225	18.0	11.6		*	10	46	50
2342	60.7	57	36.6	225	18.0	11.7		*	0	100	69
2346	82.2	74	36.6	225	18.0	11.7		*	0	100	60
2350	85.4	76	36.7	226	18.0	11.7		*	10	100	67
2354	45.5	69	36.8	225	18.0	11.7		*	0	10	67
2358	44.5	69	36.8	225	18.0	11.8		*	0	10	62
2362	36.0	171	36.7	225	17.8	11.9	**	*	10	100	47
2366	85.0	117	36.7	225	17.6	11.9		*	0	100	51
2370	31.3	178	36.7	225	17.5	11.9		*	0	100	67
2374	75.6	165	36.7	225	17.2	12.0		*	10	100	57
2378	82.3	139	36.6	225	16.9	12.0	**	*	23	54	22

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*****
* DEPTH  DIP  DIP  DEV  DEV  DIAM  DIAM  LO  Q  PLA  CLO  MAX  *
*          AZM          AZM  1-3  2-4  GI          *
*****
* 2382  80.5   47  36.5  225  16.7  12.0      *  0  100  64  *
* 2386  NO CORR   36.3  225  16.6  12.1      *
* 2390  58.0  162  36.2  225  16.4  12.1      *  10  100  65  *
* 2394  40.7  323  36.2  226  16.2  12.2      *  10  100  66  *
* 2398  34.6  104  36.0  225  16.1  12.2      *  0  10  53  *
* 2402  87.1  306  36.0  225  16.0  12.2      *  0  100  58  *
* 2406  40.8   65  35.9  226  16.0  12.3      *  0  10  47  *
* 2410  51.5  188  35.7  226  15.9  12.3      *  0  27  65  *
* 2414  55.8  281  35.6  225  15.7  12.3      ** *  11  89  52  *
* 2418  42.2  202  35.5  226  15.4  12.3      ** *  20  100  64  *
* 2422  60.7  126  35.4  226  15.5  12.0      *  0  12  71  *
* 2426  68.0  291  35.3  225  15.6  12.4      ** *  73  100  31  *
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DIP FREQUENCY BY AZIMUTH

0-10 DEGREE DIPS IN 30 DEGREE SECTORS

	210	240	270	300	330	360	30	60	90	120	150	180
1800- 1900			1									
1900- 2000												
2000- 2100												
2100- 2200												
2200- 2300												
2300- 2400												
2400- 2500												
2500- 2600												
2600- 2700												
2700- 2800												
2800- 2900												
2900- 3000	1											
3000- 3100											1	

DIP FREQUENCY BY AZIMUTH

10-90 DEGREE DIPS IN 30 DEGREE SECTORS

	210	240	270	300	330	360	30	60	90	120	150	180
1800- 1900	5	3	6		2				1		3	3
1900- 2000	1	2	9		2		3	1	2		2	
2000- 2100	3	4	5	6			1			1	5	
2100- 2200	1		3	2	3		1	1	3	5	3	1
2200- 2300	4	1	3	3			2	3	4	3	2	
2300- 2400	3		3	7				5			2	3
2400- 2500	3	1	3	4	2		1	1	1	2	1	4
2500- 2600	1	2	9	9			1				1	
2600- 2700	1	3	6	4	1			1	1	1	1	1
2700- 2800	4	5	4	2	1				1	1	1	2
2800- 2900	4	15	3	1						1		1
2900- 3000	2	7	5	2	1					1	2	1
3000- 3100	6	9	4	2		1					1	1

DIP FREQUENCY BY AZIMUTH

0--10 DEGREE DIPS IN 30 DEGREE SECTORS

	30	60	90	120	150	180	210	240	270	300	330	360
1800- 1900									1			
1900- 2000												
2000- 2100												
2100- 2200												
2200- 2300												
2300- 2400												
2400- 2500												
2500- 2600												
2600- 2700												
2700- 2800												
2800- 2900												
2900- 3000										1		
3000- 3100				1								

DIP FREQUENCY BY AZIMUTH

0--90 DEGREE DIPS IN 30 DEGREE SECTORS

	30	60	90	120	150	180	210	240	270	300	330	360
1800- 1900			1		3	3	5	3	7		2	
1900- 2000	3	1	2		2		1	2	9		2	
2000- 2100	1			1	5		3	4	5	6		
2100- 2200	1	1	3	5	3	1	1		3	2	3	
2200- 2300	2	3	4	3	2		4	1	3	3		
2300- 2400		5			2	3	3		3	7		
2400- 2500	1	1	1	2	1	4	3	1	3	4	2	
2500- 2600	1				1		1	2	9	9		
2600- 2700		1	1	1	1	1	1	3	6	4	1	
2700- 2800			1	1	1	2	4	5	4	2	1	
2800- 2900				1		1	4	15	3	1		
2900- 3000				1	2	1	3	7	5	2	1	
3000- 3100				1	1	1	6	9	4	2		1

DIP FREQUENCY BY AZIMUTH

0-10 DEGREE DIPS IN 30 DEGREE SECTORS

210 240 270 300 330 360 30 60 90 120 150 180

2200- 2300

2300- 2400

2400- 2500

DIP FREQUENCY BY AZIMUTH

10-90 DEGREE DIPS IN 30 DEGREE SECTORS

	210	240	270	300	330	360	30	60	90	120	150	180
2200- 2300	1	1	2	4	1			4	2	1	2	3
2300- 2400		1	2	1	1			8	2	1	3	4
2400- 2500	1		1	2				1		1		1

DIP FREQUENCY BY AZIMUTH

0--10 DEGREE DIPS IN 30 DEGREE SECTORS

30 60 90 120 150 180 210 240 270 300 330 360

2200- 2300

2300- 2400

2400- 2500

DIP FREQUENCY BY AZIMUTH

0--90 DEGREE DIPS IN 30 DEGREE SECTORS

	30	60	90	120	150	180	210	240	270	300	330	360
2200- 2300		4	2	1	2	3	1	1	2	4	1	
2300- 2400		8	2	1	3	4		1	2	1	1	
2400- 2500		1		1		1	1		1	2		