

As of August 1, 1969 Ohio Oil Company changed its name to Marathon Oil Company

- Scout Report sent out
- Noted in the NID File
- Location map pinned
- Approval or Disapproval
- Date Completed
- Operations suspended
- Pin changed on Location Map
- Affidavit and Record
- Water Shut-Off Test
- Gas-Oil Ratio Test
- Well Log Filed

FILE NOTATIONS

- Entered in NID File
- Entered on S R Sheet
- Location Map Pinned
- Card Indexed

COMPLETION DATA:

- Date Well Completed
- OW
- OS
- GW

- Checked by Chief
- Copy NID to Field Office
- Approval Letter
- Disapproval Letter

- Location Inspected
- Bond released State of Fee Land

LOGS FILED

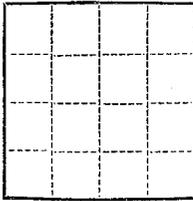
- Driller's Log 1956
- Electric Logs (No. 1)
- E
- Lat
- Mi-L
- Sonic
- GR-N
- Others Geological
- Micro

Important Water Seals

971-1799'

84A

5' plug at [redacted] 3/4"



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. **Utah 05337**
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 31, 19 56

Government

Well No. 1 is located 990 ft. from N line and 1980 ft. from W line of sec. 34

34 Sec. 34

(1/4 Sec. and Sec. No.)

3N

(Twp.)

22E

(Range)

SLM

(Meridian)

Antelope Plats

(Field)

Daggett

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **To be reported later**

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill a well to test the Phosphoria (3400') and Weber (3728') formations. Set approximately 250' 10 3/4" 40.5# casing and cement to surface. 5 1/2" 15.5# casing for oil string and cement with sufficient cement to protect pipe and upper formations.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Ohio Oil Company

Address P. O. Box 120

Casper, Wyoming

(COPY ORIGINAL SIGNED)

M. J. BOYCH

By _____

Title Division Superintendent of
Production

FEDERAL LAND

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
6. The District Engineer, D. E. Russell, 306 Federal Building, Salt Lake City 1, Utah Phone 4-2552, Ext. 433, shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.

V-05337

D. E. Russell

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HANCOCK OIL CO

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OHIO OIL CO
ANTELOPE FLAT AREA
DAGGETT CO., UTAH

June 11, 1956

The Ohio Oil Company
P. O. Box 120
Gasper, Wyoming

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. 1, which is to be located 990 feet from the north line and 1980 feet from the west line of Section 34, Township 3 North, Range 22 East, S1EM, Daggett County.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

However, said approval is conditional upon your forwarding a map or plat to the Utah Oil and Gas Conservation Commission as required by Rule C-4 (a), General Rules and Regulations.

Very truly yours,

Oleon B. Feight
Secretary

CEP:cc

cc: D. Russell, Geological Survey, Federal Bldg., Salt Lake City, Utah
W. F. (Bill) Nowlan, Dist. Landman, P. O. Box 268, Salt Lake City,
Utah

The Ohio Oil Co.

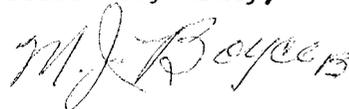
Casper, Wyoming
June 12, 1956

Utah Oil & Gas Conservation Commission
State Capitol Building
Salt Lake City, Utah

Gentlemen:

Attached is plat showing location and lease lines covering our drilling of Government #1, Antelope Flats, located 990' FNL 1980' FWL Sec. 34, T. 3 N., R. 22 E., Daggett County, Utah. Copies of intention to drill which have been filed with the U. S. G. S. have been presented your office.

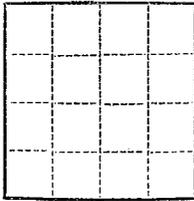
Yours very truly,



M. J. Boyce

MJB:c





(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____

Lease No. Utah 05337

Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	SUBSEQUENT REPORT OF WATER SHUT-OFF _____
NOTICE OF INTENTION TO CHANGE PLANS _____	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____	SUBSEQUENT REPORT OF ALTERING CASING _____
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL _____	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR _____
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____
NOTICE OF INTENTION TO ABANDON WELL _____	<u>Surface Casing</u> _____ X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

June 15, _____, 1956

Government

Well No. 1 is located 990 ft. from NS ^{N} line and 1980 ft. from WE ^{E} line of sec. 34

NW Sec. 34 3N 22 E
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Antelope Flats Daggett Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. To be reported

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 6/8/56. Drld 615' 9" hole. Reamed to 15" to 535'. Ran 16 jts 10 3/4" 40.5# H-40 casing, 517.73' net, landed 530.09' KB, circulated 35 mins before cementing, ran in 450 sacks Ideal ray., 1 sack chloride last 70 sacks, ran 10 bbls. clear water ahead of cement, displaced w/51.5 bbls. water, max. pressure 300#, good returns cement to surface after displaced 30 BW. Left 20' cement plug in pipe. Job completed 10:30 a.m. 6/14/56. W.O.C.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Ohio Oil Company

Address P. O. Box 120

Casper, Wyoming

By _____

Title Division Superintendent of Production

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____

Lease No. Utah 25387

Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	DETS	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Government _____ August 28, 19 50

Well No. 1 is located 990 ft. from N line and 1980 ft. from W line of sec. 34
1/4 Sec. 34 9 N 22 E
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Antelope Flats Darrett Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 6877 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

DEW #1: 2804-2925', open 60 min SI 30 min, opened tool, 7 min blow. Reset tool, 1 min blow. Recov 65' drly. mud. F. 0, SI 0, St. 1400.

DEW #2: 2972-3021', open 60 min, SI 15 min., good blow 20 min., recov 2100' sulphur water, no rainbow. F. 550-825, SI 825, St. 1375.

DEW #3: 3263-3277', open 60 min SI 40 min, good blow of air for 49 min. Recov 2395' sulphur water. F. 650-1025, SI 1025, St. 1580.

Schlumberger Tops: Entrada 573', Carmel 796', Huggett 963', Chinle 1799', Monokopi 1978', Phosphoria 3010', Weber 3214'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Ohio Oil Company
 Address P. O. Box 130
Casper, Wyoming

By M. J. Boyce
 Title Division Superintendent of Production

D. F. Donnell

DATE _____

THE OHIO OIL CO

HISTORY OF OIL OR GAS WELL

FIELD ANTELOPE FLATS

WILDCAT

WELL NO. 1 LEASE GOV'T BLOCK SEC. 34 TWP. 3 N. R. 22 E.

STATE UTAH PARISH _____ COUNTY DAGGETT

990/N
1980/W

John Harlan - Asst. Geol.
John Stuart - Asst. Geol.
Edward Moore - Asst. Geol.
R. H. Steed - Geologist

MEASUREMENTS TAKEN FROM

TOP OF OIL STRING	_____	ELEV. _____
TOP OF ROTARY TABLE	_____	ELEV. _____
GRD. OR MAT	_____	ELEV. _____

HISTORY PREPARED BY _____

TITLE _____

IT IS OF THE GREATEST IMPORTANCE TO HAVE A COMPLETE HISTORY OF THE WELL. USE THIS FORM IN REPORTING THE HISTORY OF ALL IMPORTANT OPERATIONS AT THE WELL, TOGETHER WITH THE DATES THEREOF, INCLUDING SIZE OF HOLE, SIZE AND NUMBER OF BITS, COMPLETE DESCRIPTION OF CASING, CEMENTING, FISHING OR DRILLING DIFFICULTIES, SURVEYS, ALL TESTS, ALL COMPLETION OPERATIONS AND PROCEDURE, ETC.

DATE

1956JUNE

3	Rigging up. Rigged up by 8:00 P.M.
4	W. O. O.
5	W. O. O.
6	W. O. O.
7	W. O. O. - started drilling rathole @ 6:30 P.M. Lost circulation
8	Drilled surface with 9 7/8" bit to 253'
9	Drilled with 7 3/8" bit to 463'. Top of Curtis formation 420'
10	Drilled with 7 3/8" bit to 616'. Reamed 9 7/8" from 245 to 252. Top of Entrada 582. Measured DP @ 526 no correction
11	Reamed to 9 7/8" hole to 540'. Started reaming 15".
12	Reaming to 15"
13	Reaming to 15". Measured DP @ 472' no correction
14	Finished reaming hole to 15" and ran casing. 16 jts, 10 3/4" 40.5#, H40, 8 rd thd casing. (517.73' net) landed bottom guide shoe @ 530.09 KB and top of top collar @ 12.36 KB. One centralizer in middle of shoe jt circ 35 vis mud for 40 min and cemented with 450 sax Ideal reg. w/1 sack calcium chloride in last 70 sax. Ran ten bbls clear water ahead of cement. Ran rubber plug behind cement and displaced with 51.5 bbls water at max press 300#. Good returns to surface of cement after 30 bbls water had been displaced. Left 20' plug in pipe. Plug down at 10:30 a.m.
15	W. O. C.

W.F. H
cc H
10/12/56

June

- 16 Nippled up. Tested surface casing open hole under blind rams @ 700# for 30 min. O.K. Tested surface pipe & 3½" rams @ 500#, Tested all Berry Drive lines to BOP w/1000#. Drilled out with 9 7/8" hole. Cemented 492-498; Rubber plug 498-499; Cemented 499-530; Shoe @ 530, Cemented 530-535; open hole 535-540. Started drilling 7 3/8" hole @ 540'. Services by Baroid mud logging service began.
- 17 Worked on BOP and drilled 7 3/8" hole to 764. Meas. D.P. @ 761 and corr to 764.
- 18 Drilled 7 3/8" hole to 879. Top of Carmel formation 798'. Lost circulation at 769' mixed 25 sax gel, 11 sax fibertex, 5 sax cottonseed bulk, 1 bale redwood bark. Survey 2° at 813', 2½° at 843'. Reduced wt on bit from 6000 lbs to 2000 lbs. in effort to keep hole straight. 7 3/8" Reed 2 HM bit on at 862'.
- 19 Drilled 7 3/8" hole to 929'. Deviation 2 1/4° @ 876; 2 1/4° @ 915. Bit #9, 7 3/8" HTC OSC J Bit on at 899'. Baroid logging truck moved off location at approximately 10:00 a.m., 6/19/56. Started using portable logging unit.
- 20 Drilled 7 3/8" hole to 968'. Deviation 2° at 936. Lost circulation at 957'. Resumed drlg approx 7:15 p.m. Bit #10 on at 957'
- 21 Drilled 7 3/8" hole to 1025. Top of Nugget 971'. Deviation 2½° @ 965', 2¼° @ 1005, 2¼° @ 1023. Bit #11. Reed HMT on at 992 - 100# Tannex and 75# Caustic added to mud.
- 22 Drilled 7 3/8" hole to 1055. Bit #12, 7 3/8" HTC OWS. On at 1034, off at 1055 (green). Lost circulation at 1046, lost total of about 240 bbls mud and lost circulation material Added total of 9500# Gel, 4700# hulls, 2280# fibertex, 550# Jellflake. Water well location staked by R. E. Beitman, 168' S 47° E from location. Located by use of steel tape and brunton.
- 23 Started water well. Drilled 7 3/8" hole to 1098. Lost circulation at 1098 @ 10:05 p.m. Mud material added is as follows: Jell Flake 400#, Gell 5100#, Caustic 75#, hulls 2800# Tannex 50#, Fibertex 1200#.
- 24 Drilled 7 3/8" hole to 1122. Strapped DP @ 1103, corrected to 1109'.
- 25 Drilled 7 3/8" hole to 1160. Had gas kick @ 1140 8:20 a.m. - strong but of short duration. Circulated samples for 1 hour found no shows. Gas kick repeated with diminishing intensity each mud cycle for several cycles. The linear dimension of the original kick was less than 1/2 of a foot. All of the gas can be removed by a charcoal adsorber, therefore no methane is indicated. Methane would be expected in flammable natural gas. Immediately after the gas was recorded by the logger the bit was lifted off bottom and the blowout preventor was checked. When tool began to drill again no additional shows were recorded, therefore if a gas zone is present, it is probably less than 6 inches thick. The behavior of the mud logger can best be explained by contamination by such a material as distillate. It is interesting to note that at the time the show occurred the personnel on the rig were cleaning with distillate. The complete absence of methane possibly lends support to the contamination hypothesis. Some of the material remains in the mud and is recorded by the mud logger. Because of the probability of contamination and the probable minute size of the pay zone, if present, and because no drilling break or shows in the samples were recorded, this zone was not drill stem tested.

June

- 26 Drilled 7 3/8" hole to 1219. Cut 44 ft. Deviation 2° @ 1181'. Lost circulation at 1193 possibly from a zone up the hole. Strapped drill pipe out and in - drillers net 1147.15; Strapped net 1150.65. Made 3.50' correction
- 27 Drilled 7 3/8" hole from 1201 to 1268. Deviation 1 3/4° @ 1210; 2° @ 1240. Bit #19 on at 1209 off at 1268. Bit #20 on at 1268, off at 1268, plugged bit. Bit #21 on at 1268. Strapped pipe going in hole - strapped measurement 1241.75. Driller's TD 1241.45. No correction.
- 28 Drilled 7 3/8" hole to 1290. Made 22 ft. Deviation 2 1/2° @ 1269; 2 3/4° @ 1299. Bit #22 on at 1290, off at 1308. Pump trouble developed about 2:30 a.m. Worked on pump 1/2 hour. Reduced wt on bit at 1283' in effort to straighten hole.
- 29 Drilled 7 3/8" hole to 1327. Hole from 1290 to 1308, out of gage from 1290 to 1308 as result of faulty bit. Bit #20 (rerun) used to ream this interval to proper size. Bit #23, 7 3/8", HTC, OSC on at 1317. Worked on swivel 2 hrs. Powers Surveyors ran well elevation.
- 30 Drilled 7 3/8" hole to 1342. Lost circulation at 1331. Cleaned mud tools and mixed mud with 60# Tannex, 75# caustic, 2500# cottonseed hulls, 1040# fibertex, 375# Jell flake, 3800# gel. Drilled ahead at approximately 12:30 p.m. Bit #24, 7 3/8" HTC OSC, on at 1329. Deviation 2 3/4° at 1329'. Wt on bit remains at 2000#.

JULY

- 1 Drilled 7 3/8" hole to 1368', Bit #25 7 3/8" HTC OWS on at 1346. Bit #26, 7 3/8" HTC OSC on at 1361, off at 1374. Deviation 3° at 1360'.
- 2 Drilled 7 3/8" hole to 1392. Laid down 3 drill collars in effort to straighten hole - now running 3 only. Bit #27, 7 3/8" HTC OWS on at 1374, off at 1394. Bit #28, 7 3/8" Reed 2 HM on at 1394. Checked BOP - OK
- 3 Drilled 7 3/8" hole to 1412. Laid down one D.C. and put on core barrel at 1412.5' to see if formation would core faster than drill. Cored to 1414 1/4'. Lost circulation at 1403. Bit #28 off at 1412.5 - Dull. Corehead #1, 6 3/4 x 3 1/2, DA #1133 on at 1412.5'.
- 4 Cored from 1414 to 1428, Reamed with Bit #29, 7 3/8" HTC OWS from 1412.5 to 1428 and drld ahead to 1439. Recovered 2' from core 1412.5 to 1416'. Core barrel jammed. SS, light grey to white, fine grained, well sorted, porous, diagonally fractured, water saturated apparent dip 1412.5 1413.5 5-10° (cross bedding?). Dip from 1413.5 to 1414 28-30°. Core #2 from 1416 to 1419.5 core bbl jammed, recovered 2 1/2 ft ss, lt gry to white w/medium gray landing, fine grained, well sorted, porous, water saturated, diagonally fractured. Dip 28-30°. Lost circulation at 1419. Core #3 from 1419.5 to 1428. Core barrel jammed, recovered 4' sandstone at above vertically and diagonally fractured. Dip 28-30°.

July

- 5 Drilled 7 3/8" hole to 1482'. Deviation at 1481, 2 1/2°. Bit #31, 7 3/8" OWS on at 1474.
- 6 Drilled 7 3/8" hole to 1518. Lost circulation at 1505'. Lost total of 650 gallons of mud into formation before circulation resorted. Added total of 50# tannex, 25# caustic 10,500# gel, 4500# hulls, 1920# febertex, 625# jellflake, 400# wool.
- 7 Drilled 7 3/8" hole to 1560. Bit #32, 7 3/8" HTC OWS on at 1520. Deviation 2 3/4° at 1511; 2 5/8° at 1541. Slowly loosing mud all day. Checked BOP - OK
- 8 Lost circulation. Drilled 7 3/8" hole to 1609. Lost circulation at 1580 at 6:15 a.m. added total of 8400# aquagel, 4000# hulls, 1960# fibertex, 950# jellflake, 425# wool before regaining circulation. Resumed drilling at 1:30 P.M. Loosing mud slowly. Lost circulation at 1609, 9:30 P.M. Mixing mud. Deviation 2 3/4° at 1601.
- 9 Drilled 7 3/8" hole to 1616'. Ran 7 1/4 diamond bit and drilled to 1630. Circulation was lost until 7:30 a.m. Lost mud slowly all day.
- 10 Drilled 7 1/4" hole to 1678'. Lost circulation at 1678'. Deviation 2° at 1666'. Pumped 146 bbls of mud into hole in attempt to recover circulation.
- 11 Drilled 7 1/4" hole to 1711. Pumped 65 more bbls mud in hole before circulation at 1678' was regained. Losing mud slowly. Deviation 2 1/4° at 1695'.
- 12 Drilled 7 1/4" hole to 1732. Bit #35, 7 3/8" HTC OWS on at 1732. Reamed from 1616' to 1732 and drilled ahead to 1751. Laid down 3 joints DP, picked up 2 joints DP and 1 DC (Correction -3.15') Deviation 2 1/4° at 1722
- 13 Drilled 7 3/8" hole to 1770. Bit #34 (Diamond bit) on at 1766. Laid down 1 DC and 2 joints DP; picked up 3 joints DP and 1 sub (correction /3.94'). Reamed from 1732 to 1766. Drilled ahead to 1770. Lost circulation at 1770, missing mud. Deviation 2 3/4° at 1753.
- 14 Drilled 7 3/8" hole from 1770 to 1774. Pumped 300 bbls mud in hole. Reamed tight hole from 1580 to 1770. Bit #34 off at 1770. Bit #36 on at 1770 and off at 1775.
- 15 Drilled 7 3/8" hole from 1774 to 1816 - top Chinle at 1799. Repaired airlines, mixed mud
- 16 Drilled 7 3/8" hole to 1829. Cored 1829 to 1844. Reamed rat hole and drilled to 1848. Cored 15' rec 15' limestone and variegated shale - Chinle formation. Dip 17° - 20°
- 17 Drilled 7 3/8" hole to 1967. Drilling rate increased considerably. Bit #38 on at 1844 off at 1916 made 72 feet. Bit #39 on at 1916 off at 1983. Made 67 feet. Formation making mud color - buff.
- 18 Drilled 7 3/8" hole to 2055'. Lost circulation 2003', 2007', 2009'. Lost 144 bbls mud. Bit #40, on at 1983.

July

- 19 Drilled 7 3/8" hole to 2161. Bit #41 on at 2095.
- 20 Drilled 7 3/8" hole to 2208. Lost circulation at 2183. Pumped 428 bbls mud in hole. Worked on pump and rotary drive chain 2 1/2 hrs. Bit #42 on at 2198.
- 21 Drilled 7 3/8" hole to 2303. Worked on chains and serviced rig 1/2 hr. Bit #43 on at 2303.
- 22 Drilled 7 3/8" hole to 2397. Lost circulation at 2395. Mixed 2 tanks mud.
- 23 Drilled 7 3/8" hole to 2445. Pumped 408 bbls mud in hole to regain above mentioned lost circulation. Worked on pump and unstopped flow line.
- 24 Drilled 7 3/8" hole to 2495. Deviation 2 3/4° at 2451.
- 25 Drilled 7 3/8" hole to 2526. Reamed tight hole after trip. Worked on pump.
- 26 Drilled 7 3/8" hole to 2578. Circulated samples at 2577.
- 27 Drilled 7 3/8" hole to 2629. Circulated samples 1 hr 15 min at 2619. Cored 2619 to 2629. Recovered 10 feet. Back in hole with bit #49, 7 3/8" HTC OSC. Reamed 2619 to 2629.
- 28 Drilled 7 3/8" hole to 2714. Worked on pump and went in hole with Bit #50 at 2700.
- 29 Drilled 7 3/8" hole to 2775, Lost circulation at 2756. Went in hole with Bit #51 at 2756. Mixed mud.
- 30 Drilled 7 3/8" hole to 2826. Circulated samples 15' at 2789. Cored 2789 to 2799. Recovered 10'. Back in hole with Bit #51. Reamed 2789 to 2799.
- 31 Drilled 7 3/8" hole to 2891.

August

- 1 Drilled 7 3/8" hole to 2925. Ran DST #1, 2864-2925, SIP O#, FP O#, SI O#, HP 1400#. SI 30", open 1 hr, SI 30". Rec. 65' high viscosity mud very slight gas cut, 2 specks of oil on bucket. Strong gas (wet) kick on logger at 2893 - increased in intensity to 2925. Initial kick - 30 units - final - 65 units.
- 2 Regained circulation and drilled 7 3/8" hole to 2952 on with Bit #54.
- 3 Drilled 7 3/8" hole to 2995. Circulated samples at 2981 and 2984. Bit #55 on at 2966.
- 4 Drilled 7 3/8" hole to 3015'. Top of Phosphoria 3010'. Some stain and saturation in limestone, slight bleeding of heavy black oil in top 2'. Preparing to core.

August

- 5 Drilled 7 3/8" hole to 3024'. Core #7, cored 6' recovered 4 1/2', partly stained brownish gray to gray limestone and chert. Ran DST #2A. ISI 825#, HP 550# to 835#, FSI 825#, HP 1325#, open 1 hr 5 min, strong blow of air immediately, died in 30 min, recovered 2100' brackish sulphur H₂O. Drilled 3'.
- 6 Drilled 7 3/8" hole to 3061'. Drilling break at 3050'. Circulated 1 hr 15", porous gray limestone with few dead oil specks. Drilling ahead.
- 7 Drilled 7 3/8" hole to 3088'. Reamed out of gage hole.
- 8 Drilled 7 3/8" hole to 3117. Strapped pipe - no correction. Deviation 3 1/4° at 3086.
- 9 Drilled 7 3/8" hole to 3157.
- 10 Drilled 7 3/8" hole to 3188. Deviation at 3175 - 2 3/4°
- 11 Drilled 7 3/8" hole to 3205. Worked on rig (Drive chain 11 hrs.)
- 12 Drilled 7 3/8" hole to 3232
- 13 Drilled and cored to 3250 - Core #8, 3236-3249, Full recovery.
- 14 Cored to 3277 TD. Ran DST #3, 3203-3277. Johnston testers - Tested Weber sand 2nd lower 19 ft of Phosphoria. 7 3/8" and 6 3/4" hole (open). Used two 6" BT packers. Tool open 1 hr. Good blow decreasing to dead in 43 min. Rec. 2335 ft of sulphur water in 3 1/2" FH drill pipe. Bottom hole temp. 85° HP 1580#. Initial SIP 1035# Final SIP 1025#, FP 650#-1025#, TD 3277.
- 15 Running electric logs: 1 - Electric R-SP log
2 - Micro log 750-1150
2500-3277
3 - Lateral log

Schlumberger Formation Tops

Entrada	573
Carmel	796
Nuggett	963
Chinle	1799
Moenkopi	1970
Phosphoria	3010
Weber	3214

- 16 Plug and abandon. Plugs in well: 3277-3200 - 29 sacks
3030-2990 - 40 sacks
1050-950 - 25 sacks
540-510 - 25 sacks ✓

DATE _____

THE OHIO OIL CO.

LOG AND CORE RECORD

FIELD WILDCATWELL NO. 1 LEASE ANTELOPE FLATS GOVT.BLOCK
SEC. 34 T 3 N. R 22 E.STATE UTAH PARISH _____
COUNTY DAGGETT

ELEV. _____

John Harlan - Asst. Geol.

John Stuart - Asst. Geol.

Edward Moore - Asst. Geol.

R. H. Steed - Geologist

MEASUREMENTS
TAKEN FROM
 TOP OF OIL STRING _____ ELEV. _____
 TOP OF ROTARY TABLE _____ ELEV. _____
 GRD. OR MAT _____ ELEV. _____

CORE DESCRIBED BY _____

TITLE _____

DEPTH		THICKNESS	DRILLED OR CORED	RECOVERY	DESCRIPTION
TOP	TO BOTTOM				
25	35	10	Drilled		Shale, lt to med gry, sndy in part, contains calcite veinlets
35	45	10	Drilled		Shale, lt gry to white, sandy in part
45	50	5	Drilled		Same, plus quartz, unconsolidated grains
50	55	5	Drilled		Calcite, reddish brn; many loose quartz grains
55	60	5	Drilled		Calcite, reddish brn; sh, lt gry
60	65	5	Drilled		Sh, lt gry; calcite as above
65	70	5	Drilled		Sh, lt gry, aren in part; minor amt calcite
70	75	5	Drilled		Sh, lt to med gry
75	80	5	Drilled		Sh, lt gry, aren; qtz fragments angular
80	85	5	Drilled		Sh as above plus several grains chert, blk, angular
85	90	5	Drilled		Sh, lt gry to lt grn gry, aren
90	110	20	Drilled		Siltstone, brn to reddish brn, calc.
110	125	15	Drilled		SS, reddish brn, fine, ang, arkosic, slightly calc.
125	155	30	Drilled		SS, lt gry to wh, ang, poorly sorted calc, contains iron stained streaks
155	160	5	Drilled		Same, plus many loose qtz grains of about 1 m.m. - Drlg coarse ss or cong ?
160	165	5	Drilled		SS, lt reddish brn, fine, arkosic, calc; ss, lt gry, mottled, fine to med, poorly sorted; qtz; chert, dk gry; sh, lt gry, hd, calc.

165	170	5	Drilled	SS, mottled gry to iron stained, conglomeratic, qtz, chert
170	175	5	Drilled	Same - appears very friable
175	190	15	Drilled	SS, lt gry to reddish brn, conglomeratic, very poorly sorted, very angular
190	195	5	Drilled	Same plus sh, med gry, slty
195	200	5	Drilled	Same plus chert, dk gry to blk
200	220	20	Drilled	SS, lt gry, conglomeratic, angular qtz and chert particles, calcareous
220	225	5	Drilled	Sh, med gry, arenaceous
225	240	15	Drilled	Siltstone, white, well sorted
240	250	10	Drilled	SS, reddish brn, fine, iron stained calcareous, ang - many cavings
250	270	20	Drilled	Siltstone, lt gry, well sorted, calcareous
270	275	5	Drilled	Siltstone as above, color varies from lt gry - lt tan
275	280	5	Drilled	SS, lt tan, and ss, white, iron streaked, med grained, angular, calcareous
280	285	5	Drilled	Siltstone, lt gry to white, very calc; Sh, grn gry, sandy
285	290	5	Drilled	Siltstone, lt gry to brn gry, calcareous; much calcite, white, pure
290	295	5	Drilled	Same plus sh, lt grn gry, calc.
295	300	5	Drilled	Sh, maroon; siltstone as above; SS, lt gry to wh, fine to med, poorly sorted, iron stained calcareous
300	305	5	Drilled	Same plus many unconsolidated qtz grains
305	310	5	Drilled	Siltstone, lt gry, calc; SS lt gry, yellow stained, angular, fine
310	315	5	Drilled	Same plus ls, lt gry, shaley to sandy
315	325	10	Drilled	Sh, grn gry, sndy; SS, maroon to lavender fine, angular, some glauconitic, slightly calcareous

325	330	5	Drilled	SS and siltstone, lt gry, calcareous
330	335	5	Drilled	SS, dk red, angular, calc in part (gives laminated appearance); trace ls, dk gry to blk, finely xln, sandy
335	340	5	Drilled	SS and sandy sh, lt gry to green grey
340	345	5	Drilled	SS, lt to med gry, calc; sh, sandy calc.
345	350	5	Drilled	Same lithologies - ss predominant
350	355	5	Drilled	SS, reddish brown to pink, fine, ang, calcareous
355	360	5	Drilled	Same plus ls, lt gry to grn gry, sandy
360	365	5	Drilled	Sh, sandy, lt to med gry, slightly calc.
365	370	5	Drilled	SS, lt gry to yellowish brn, very poorly sorted, very angular, conglomeratic, calcareous
370	375	5	Drilled	SS as above, but % less drlg gry SS and sandy sh (?)
375	385	10	Drilled	SS, lt gry to white, fine, angular, calcareous
385	400	15	Drilled	SS, white, fine, poorly consolidated calcareous
400	405	5	Drilled	SS as above plus sh, lt grn gry to med gry, sandy
405	420	15	Drilled	SS and shale, as above.
420	425	5	Drilled	Ls, med gry, dense, med hard
<u>SAMPLE TOP OF CURTIS FORMATION 420'</u>				
425	435	10	Drilled	Same plus siltstone, brn, very calc. in part.
435	460	25	Drilled	Ls, lt brn, gry and dk brn gry, finely xln, hd, oolitic - oolites often contain glauconite grain in center
460	465	5	Drilled	Ls as above plus ls, lt brn, argillaceous to sitly
465	470	5	Drilled	Sh, brn, very silty, calcareous

470	475	5	Drilled	Ls, lt brn, argillaceous to silty
475	500	25	Drilled	Ls, lt brn to dk brn gry, finely xln, oolitic
500	505	5	Drilled	Ls above grades into Ls, med gry, arenaceous toward base of this interval
505	510	5	Drilled	Ls, lt gry to white, very sandy, contains qtz, abundant glauconite
510	515	5	Drilled	Same plus sh, dk gry to blk, slightly calc in part.
515	520	5	Drilled	Sh, blk, slightly calcareous
520	545	25	Drilled	Sh, med to dk gry
545	550	5	Drilled	Ls, lt gry to white, sandy, contains abundant glauconite and quartz
550	565	15	Drilled	Ls, med to dk gry, finely xln, oolitic
565	570	5	Drilled	Sh, lt gry to grn gry, slightly sandy
570	575	5	Drilled	Ls, med to dk brn gry, finely xln, oolitic, slightly sandy; Ls, lt gry, sandy, glauconitic
575	580	5	Drilled	Ls, med gry, sandy, contains quartz and glauconite
580	585	5	Drilled	Same plus <u>siltstone</u> , <u>yellowish brn</u> , <u>calc</u> , <u>friable</u>
<u>SAMPLE TOP OF ENTRADA FM 582'</u>				
585	590	5	Drilled	Siltstone as above plus siltstone, pink, calcareous, friable
590	595	5	Drilled	Siltstone, yellowish brn, calc, friable, and siltstone, pink, calc., friable
595	600	5	Drilled	Siltstone, as above plus siltstone, lt gry to white calc.
600	605	5	Drilled	Siltstone, yellowish brn, pink, white as in 590-600
605	610	5	Drilled	Siltstone, white, porous, slightly calcareous, grading into fine ss; some ss, yellowish brn, calc., porous

610	615	5	Drilled	Siltstone, white as above
620	625	5	Drilled	Siltstone, pink to lt red, calc, friable siltstone lt gry to white
625	635	10	Drilled	Siltstone, yellowish brn, calc., friable
635	650	15	Drilled	Same plus siltstone, white
650	680	30	Drilled	Siltstone as above plus some ls, white to brn and ss, white, porous
680	695	15	Drilled	SS, white to pink, med to coarse, friable calcareous
695	705	10	Drilled	SS, white, fine to med, friable, slightly calcareous; shale, gry, soft.
705	710	5	Drilled	Sh, gry; ss white to pink, fine to med.
710	715	5	Drilled	SS, white with much red staining, fine, friable, calcareous
715	725	10	Drilled	SS, red, fine to med, friable, calc; much glauconitic sandstone
725	730	5	Drilled	Siltstone, red, friable; sh, gry; many med qtz grains
730	735	5	Drilled	SS, white, fine, slightly calcareous
735	755	20	Drilled	SS, yellowish brn to white, fine to med, poorly sorted, porous, slightly calc.
755	760	5	Drilled	SS as above, pink
760	770	10	Drilled	NS - lost circulation
770	795	25	Drilled	SS, lt gry, fine, friable, calcareous
795	800	5	Drilled	Same plus <u>shale</u> , <u>silty</u> , <u>maroon</u> , <u>calc.</u>

SAMPLE TOP OF CARMEL FORMATION 798'

800	805	5	Drilled	Sh, maroon, silty in part, calc, soft to med. hard
805	810	5	Drilled	Same plus shale, lt gry, soft, calc.
810	820	10	Drilled	Shale, lt to med gry, calc, med hard
820	825	5	Drilled	Sh, maroon, silty, calc, med hd to hd.

825	830	5	Drilled	Same plus sh, gry, med hd
830	840	10	Drilled	Sh, gry, calc, med hd; some qtz grains, pink to white
840	845	5	Drilled	Siltstone, white, hd, calcareous, porous
845	855	10	Drilled	Sh, red, silty, calcareous, med hard
855	860	5	Drilled	Sh, lt to med gray, med hard, calc.
860	865	5	Drilled	Siltstone, grey, hard, calc; some red siltstone
865	875	10	Drilled	Siltstone, red, hard, calcareous
875	890	15	Drilled	Shale, lt to med grey, med hd to hd, calcareous
890	895	5	Drilled	Same plus shale, maroon, silty, med hard, calcareous
895	900	5	Drilled	Shale, maroon, silty, calcareous, med hard
900	905	5	Drilled	Same plus shale, lt to med gry, calc.
905	910	5	Drilled	Shale, red hard, silty, calc; considerable limestone and argillaceous limestone present
910	915	5	Drilled	Shale, red, hd, very calc, contains calcite veinlets
915	925	10	Drilled	Sh, red, hard, calcareous; interbedded limestone, gry med hard, argillaceous and silty, trace gypsum
925	940	15	Drilled	Shale and siltstone, red, calcareous; Shale, med gry, calcareous
940	950	10	Drilled	Shale, red, silty in part, calcareous; thin bed sandstone, lt gry, fine, slightly calcareous
950	955	5	Drilled	Shale, silty shale and SS, fine, calc, contains numerous calcite veinlets
955	965	10	Drilled	Shale, red, silty, medium hard, calc, mica, numerous calcite veinlets, thin limestone grey, argillaceous, mica

965	970	5	Drilled	SS, red and gry, fine, very calc., poorly sorted; siltstone, red; trace ls and calcite
970	975	5	Drilled	Siltstone and shale as above plus <u>SS</u> , <u>lt gry</u> to <u>white</u> , fine, angular to sub-rounded, pure, porous
<u>SAMPLE TOP OF NUGGET 971'</u>				
975	1015	40	Drilled	SS, white as above
1015	1020	5	Drilled	SS, white, fine to med, porous, friable, well sorted, increase in amount of cementing material
1020	1026	6	Drilled	Same plus trace siltstone, white, angular, somewhat more poorly sorted than SS uphole, contains minute specks pyrite.
1026	1030	4	Drilled	SS, lt gry to white, fine to med, more cementing material and not as well sorted as topmost Nugget
1030	1035	5	Drilled	SS, lt gry to white, fine to med, friable.
1035	1045	10	Drilled	SS, white, fine, pure, friable.
1045	1065	20	Drilled	SS, white, fine to med, porous, friable, slightly calcareous, some pyrite and orange grains present
1065	1070	5	Drilled	SS, white, fine to med, well sorted, porous, friable, some scattered pink & orange grains, some pyrite
1070	1090	20	Drilled	SS, lt gry to white, fine, friable, cementing material only slightly calc, some cuttings contain numerous pyrite specks.
1090	1095	5	Drilled	SS, white, fine to med, friable, well sorted, rounded to subrounded, some orange grains, some glauconite & some pyrite
1095	1100	5	Drilled	SS, white, fine to med, friable, well sorted, rounded to subrounded, most grains frosted

1100	1105	5	Drilled		SS, white to lt gry, fine to med, rounded to subrounded, friable, mostly frosted - some clar grains, few amber grains fairly well sorted, probably porous, few gry to dk gry grains
1107	1135	28	Drilled		SS as above plus small amount pyrite
1135	1140	5	Drilled		SS as above, marked increase in dry fragments
1140	1141	1	Drilled		SS as above, Gas kick on logger circ. samples 3/4 hr., returned same type ss as above - no show. Gas kick believed due to hydrogen.
1141	1265	124	Drilled		SS, white to lt gry, mostly fine to med, some coarse, mostly frosted grains, some amber grains, some pyrite, fairly well sorted, porous, rounded to subrounded, cementing material is slightly calcareous
1265	1300	35	Drilled		SS, lt gry to white, fine to med fair to good sorting, trace pyrite as cementing material
1300	1305	5	Drilled		SS as above plus SS, lt gry to white, fine to med, very poorly sorted, conglomeratic, trace ss, white, fine hd cherty material is cementing agent
1305	1365	60	Drilled		SS, lt gry to white, fine to med, subrounded, friable, porous; trace vein calcite; trace feldspar
1365	1380	15	Drilled		SS as above plus dolomite, lt to med gry, sandy, hard
1380	1395	15	Drilled		SS, lt gry to white, fine to med, well sorted, angular to subrounded, porous
1395	1405	10	Drilled		SS, lt gry to white, fine to med, well sorted, angular to subrounded porous; SS, lt gry, fine, poorly sorted, slightly calcareous
1405	1412 $\frac{1}{2}$	7 $\frac{1}{2}$	Drilled		SS, lt gry to white, fine to med porous, well sorted, subrounded to rounded, some orange grains
1412 $\frac{1}{2}$	1428	15 $\frac{1}{2}$	Cored	8 $\frac{1}{4}$	SS, lt gry to white, fine, well sorted, porous, cross bedded, fractured, water saturated

1430	1535	105	Drilled	SS, lt gry to white, fine to med, friable, porous, well sorted, rounded to subrounded, some pyrite, some orange quartz grains
1535	1560	25	Drilled	SS, lt gry, fine to med, porous, friable well to poorly sorted, increased amt cementing material
1560	1565	5	Drilled	SS, lt gry to white, fine, well sorted, moderately friable
1565	1580	15	Drilled	SS, lt gry to white, fine to med, well to poorly sorted; SS lt tan, med hd to hd, fine, has somewhat "quartzitic" appearance, fair sorting, subangular to subrounded, calcareous
1580	1660	80	Drilled	SS, lt gry, fine, porous, well to poorly sorted, some pyrite and trace feldspar
1660	1680	20	Drilled	SS, lt gry to white, fine to med, hd, poorly sorted, rounded to subangular
1680	1700	20	Drilled	SS, white to buff, fine, porous, friable, much pyrite
1700	1795	95	Drilled	SS, med gry to white, fine, hd, well to poorly sorted
1795	1800	5	Drilled	SS as above plus one fragment <u>sh</u> , <u>silty</u> , <u>rd</u>
<u>SAMPLE TOP CHINLE 1799'</u>				
1800	1810	10	Drilled	Sh, rd, sandy; siltstone, rd; clay, white to yellow stained, associated with medium ss grains; some angular chert
1810	1816 $\frac{1}{2}$	6 $\frac{1}{2}$	Drilled	SS, lt gry to pink, fine, calcareous, some clay, numerous medium clear to frosted quartz fragments; some fine, rd stained sand grains
1816 $\frac{1}{2}$	1820	3 $\frac{1}{2}$	Drilled	Sh, rd, calc; siltstone, rd, calc.
1820	1825	5	Drilled	Siltstone, med to dk rd, calc; Sh, dk rd, calc, blocky

1825	1829	4	Drilled		Same plus siltstone, reddish tan, limey, numerous calcite veinlets, - grades into silty limestone
1829	1830 $\frac{1}{2}$	1 $\frac{1}{2}$	Cored	1 $\frac{1}{2}$	ls, gry to tan, silty, finely xln, highly fractured, fractures filled or lined with calcite or lt gry clay material, fractures filled with clay fluoresce slightly, clay is calc. Fractures have no apparent pattern. Dip 17-20°. Bedding planes indistinct
1830 $\frac{1}{2}$	1834 $\frac{1}{2}$	4 $\frac{1}{2}$	Cored	4 $\frac{1}{2}$	Sh, rd, slightly silty, calcareous, slickensided, fractured, most fractures filled with clay, greenish grey, calc.
1834 $\frac{1}{2}$	1836	1 $\frac{1}{2}$	Cored	1 $\frac{1}{2}$	Sh, buff, calc, blocky, grn gry blotches and streaks, fractured, soft, few slickensides, red blotches
1836	1837	1	Cored	1	Sh, as above only rotten, slickensides, brecciated (?)
1837	1842	5	Cored	5	Sh, buff, calc., grn gry blotches around dk centers, fractured, blocky, fractures filled w/clay material, blocky, harder than above shale.
1842	1844	2	Cored	2	Same w/red blotches
1844	1850	6	Drilled		Sh, buff to yellowish buff, calcite xl inclusions and streaks w/sh, rd silty, calc, and ls, lt tan to brn tan, silty, finely xln, calcite inclusions and streaks (is probably cavings from reaming). Drilling buff to yellowish buff sh and rd silty shale.
1850	1855	5	Drilled		Same - poor sample, less limestone
1855	1870	15	Drilled		Same
1870	1875	5	Drilled		Same plus ss, white w/rd streaks, very calc, very fine.
1875	1890	15	Drilled		SS, white to rd to pink, very calc, find, soft & porous in part; also sh, varicolored

1890	1895	5	Drilled	SS, as above plus ss yellow, fine, very calc, varicolored sh & sndy sh; calcite veinlets in all these lithologies; also ss, white to lt gry, fine to med v calc, poorly sorted, scattered dk grains
1895	1900	5	Drilled	Same w/trace tan silty ls; few black splotches and stain (iron) on med to fine ss.
1905	1910	5	Drilled	SS, lt to dk gry w/numerous blk splotches and blk stain (iron) plus minor amt varigated sh & fine ss as above w/some lt tan-gry ls, silty (cavings?)
1910	1915	5	Drilled	SS, varigated sh and ls as above; small amt sh, grn, slightly calcareous
1915	1935	20	Drilled	SS, lt gry, fine to med, very calc, yellow & rd stained; varigated sh & siltstone; tr lt tan silty ls; some ss yellowish, fine, very calc; trace ss, lt grn, fine, very calc.
1935	1945	10	Drilled	Same plus some loose qtz grains, coarse
1945	1960	15	Drilled	SS, lt gry w/grn, rd & brn splotches & streaks, fine to med, calc, some yellow stain; ss, yellow, fine, very calc; ls lt gry, silty; varigated sh & siltstone; qtz pebbles frosted to clear; conglomerate, qtz pebbles in fine to med matrix
1960	1965	5	Drilled	SS, lt gry w/rd, brn & grn streaks fine to med, poorly sorted, calc; no conglomerate as such, but loose qtz grains present
1965	1970	5	Drilled	SS as above interbedded w/varigated sh & thin beds siltstone, rd
1970	1975	5	Drilled	Same but decrease in SS
1975	1990	15	Drilled	Interbedded siltstone, rd, shly, calc. hd; sh varigated; some ss fine to med w/yellow stain - decrease in ss fragments
1990	1995	5	Drilled	Same but decrease in the amt of lt gry calc. ss

SAMPLE TOP MOENKOPI 1990'

1995	2040	40	Drilled	Siltstone, rd, calc, lt grn gry streaks, clay & calcite filled fractures, micaceous in part, interbedded with lesser amts shale, varigated, calc, some ss, lt gry to lt buff, fine to med, calc small amt ls, brn gry, silty
2040	2094	54	Drilled	Siltstone, rd, micaceous in part, calc, few thin beds of micaceous sh; trace gypsum
2094	2120	26	Drilled	Siltstone as above; sh, lt grn, silty; interbedded purple sh; some siltstone drab gry, non calc; fibrous gyp
2120	2125	5	Drilled	Siltstone as above composes practically all of sample; trace gypsum
2125	2200	75	Drilled	Siltstone, rd to orange rd, calc, micaceous in part; thin beds sh, rd, calc, micaceous; gyp streaks in both lithologies; few fragments grn & purple sh; some ss, rd very fine ss, calc; trace pyrite
2200	2205	5	Drilled	Same - increase in % of rd sh & gyp, few qtz pebbles; 2 fragments of gry calc ss cut in CCl ₄
2205	2210	5	Drilled	Same lithologies - no fragments which will cut with CCl ₄
2210	2215	5	Drilled	Sh, rd, slightly calc, micaceous in part; interbedded with siltstone rd to reddish orange, calc, micaceous; & purple grn and orange sh; some thin white to rd brn, fine to med ss; gyp persists; 2 fragments yellow stained, calc, fine ss
2215	2220	5	Drilled	Sh, rd, slightly calc, slightly micaeous, w/gyp filled fractures, interbedded with a lesser amt of purple and green shale. The purple shale is calc and arenaceous in part. Some rd and reddish orange calc siltstone still persists; a small amt ss, lt gry

2220	2230	10	Drilled	Same - large amt of gypsum and anhydrite; rd sh is silty in part; very little greenish shale present; highly fractured
2230	2235	5	Drilled	Sh, rd, micaceous and arenaceous; interbedded gypsum and anhydrite
2235	2240	5	Drilled	Sh, rd, micaceous to arenaceous; interbedded gypsum and anhydrite; also gyp veinlets in the shale
2240	2245	5	Drilled	Sh, rd, silty, micaceous, slightly calc; sh, maroon, calc, very fine specks mica; gypsum and anhydrite; some sh grn gry, silty, calcareous
2245	2250	5	Drilled	Same, gypsum often filling fractures in rd shale.
2250	2255	5	Drilled	Sh, yellowish brn to rd, silty to sndy, slightly calcareous; interbedded gypsum and anhydrite stringers
2255	2260	5	Drilled	Same, plus trace chalcedonic material - apparently present as fracture filling
2260	2270	10	Drilled	Sh, rd & sh lt grn gry, silty for most part, micaceous; gypsum stringers
2270	2285	15	Drilled	Sh, rd, silty, micaceous; chert and gypsum stringers
2285	2300	15	Drilled	Sh rd brn, silty, micaceous; less gypsum
2300	2315	15	Drilled	Interbedded siltstone, rd, calc, micaceous sh, rd, micaceous; & silty sh; light chert fragments; some gypsum filled fractures
2315	2320	5	Drilled	Siltstone and shale as above plus siltstone, lt grn, micaceous, slightly calc; gypsum and anhydrite partings and stringers
2320	2325	5	Drilled	Same, decrease in % of grn siltstone; some green and purple sh; fragments of gry chert

2325	2330	5	Drilled	Siltstone and shale, rd, micaceous, calc; some grn siltstone as above
2330	2335	5	Drilled	Siltstone and sh, rd as above; some gypsum
2335	2345	10	Drilled	Siltstone, rd, argillaceous, micaceous, slightly calc.
2345	2380	35	Drilled	Same plus gypsum and anhydrite
2380	2385	5	Drilled	Siltstone, rd, calc, micaceous, med hd; sh, maroon, silty, contains fine specks of mica
2385	2390	5	Drilled	Same, mostly siltstone
2390	2395	5	Drilled	Siltstone as above plus trace gypsum, white flaky, very soft - believe this interval to be composed mainly of gyp; practically no sample obtained and mud became very viscous
2395	2417	22	Drilled	No sample - lost circulation
2417				Siltstone and gypsum as above, some of the siltstone cuttings cemented by gypsum; (mud still becomes viscous rapidly)
2417	2422	5	Drilled	Siltstone and shale, silty, rd as above
2422	2428	6	Drilled	Siltstone, rd brn, slightly calc, very hard
2428	2445	17	Drilled	Some siltstone plus ss, rd grains in white cementing material, fine, well rounded grains, still some gypsum
2445	2450	5	Drilled	Siltstone, lt rd to rd brn, hd well cemented, micaceous, slightly calc.
2450	2466	16	Drilled	Siltstone, rd brn to tan, hd, micaceous
2466	2490	24	Drilled	Siltstone as above plus siltstone lt gry to white, micaceous, soft to med hd; some gypsum still present

2490	2495	5	Drilled	Siltstone, tan, lt gry and lt grn gry, hd, slightly calc, mica (tan and some of gry has speckled appearance produced by orange grains). Two fragments conglomerate w/orange, silt size matrix containing large angular shale fragments
2495	2500	5	Drilled	Siltstone, lt grn gry, hd, micaceous
2500	2505	5	Drilled	Siltstone, lt grn gry, hd, micaceous; may contain some thin beds shale, brn.
2505	2515	10	Drilled	Same plus gypsum stringers
2515	2535	20	Drilled	Siltstone, lt to med gry; appears that a similar lithology, only brn may be interbedded; also gypsum
2535	2555	20	Drilled	Siltstone lt to med grn gry, hd, micaceous; gypsum fracture fillings; interbedded shale, grn gry, silty, micaceous
2555	2560	5	Drilled	Same; trace pyrite
2560	2565	5	Drilled	Siltstone, lt to med grn gry, hd; interbedded shale, grn gry; considerable pyrite and gypsum - probably present as fracture fillings
2565	2570	5	Drilled	Siltstone and shale as above plus siltstone, lt gry to white, friable, saturated in part, good fluorescence, good cut w/ CCl ₄ (saturation found in 2 fragments)
2570	2575	5	Drilled	Same 2 fragments w/saturation
2575	2578	3	Drilled	Same - no saturated fragments
2578			Circ 1 hr 5 mins	Siltstone, grn gry hd; shale silty, grn gry; gyp stringers; some siltstone, lt gry to white, friable to med hd; one fragment w/staining. (Believe the saturated zone to be less than 5' thick and located within the 2565-2570 interval. Number of saturated fragments diminished with increased circ. time from 2578 depth). The lithology in which the saturation occurs seems to be interbedded grn siltstone and sh.

2578	2580	2	Drilled		Siltstone, med to dk grn gry, micaceous; some pyrite and gypsum
2580	2585	5	Drilled		Siltstone, lt gry, soft to hd, micaceous
2585	2590	5	Drilled		Siltstone, lt gry and lt grn gry; trace of the lt gry w/staining
2590	2595	5	Drilled		Some lithologies as above - no show
2595	2605	10	Drilled		Same, w/few fragments that fluoresce and cut w/ CCl_4 ; much pyrite
2605	2616	11	Drilled		Siltstone, lt gry to lt grn gry, soft, friable to med hd, several cuttings stained, some saturated
2616	2618	2	Drilled		Same
2619				Circ 1 hr 15 mins	Siltstone, lt gry to lt grn gry; soft, friable to med hd, one fragment saturated, several stained, good fluor, good cut
2619	2629	10	Cored	10	Siltstone, lt to med grn gry, calc, pyritic, micaceous, some shale partings. Few vertical fractures filled with gypsum and calcite. Bedding indistinct. Indicated dip is 10° - 12°
2629	2665	36	Drilled		Siltstone, lt grn gry, slightly calc, micaceous, pyritic; siltstone, lt gry to white calc, micaceous, slight stain
2665	2720	55	Drilled		Siltstone, lt grn gry, micaceous, calc, pyritic; trace gypsum; interbedded sh, grn; trace sh, blk
2720	2730	10	Drilled		Siltstone, lt gry, calc, pyritic, micaceous, hd; interbedded grn sh
2730	2756	26	Drilled		Siltstone, lt to med gry, calc, pyritic, hd, argillaceous in part; interbedded sh, med gry, pyritic; some gypsum
2756	2765	9	Drilled		NIS - lost circulation
2765	2780	15	Drilled		Siltstone, lt to med grn gry, calc, micaceous, pyritic; sh, silty, grn, blocky; trace sh blk; gypsum

2780	2785	5	Drilled		Siltstone as above, becoming lighter gry, good stain, fluorescence, fair cut
2789			Circ 15'		Same w/increase in staining, cut, and fluorescence
2789	2799	10	Cored	10	Siltstone, med gry, micaceous, pyritic, calc, med hd to hd, appears tight, well developed fractures filled w/gypsum and anhydrite; interbedded grn and gry shale. No show. Dip 12° - 14°
2799	2815	16	Drilled		Siltstone, lt to med gry grn, micaceous, pyritic, calc; interbedded sh grn to dk gry; trace stain & fluorescence probably from uphole
2815	2850	35	Drilled		Same lithology - no show
2850	2855	5	Drilled		Same; trace shale, blk
2855	2865	6	Drilled		Same gry siltstone & sh as above, possibly drld bed of siltstone, rd brn to brick rd, calc, w/interbedded sh, brick rd, silty; some tan ls
2865	2895	30	Drilled		Siltstone, grn to med gry, micaceous, pyritic, calc; sh, lt to med grn gry, pyritic, trace tan ls; few fragments fluor and cut; slight show on logger at 2888-2891. Drilling break 2888-2891
2895	2900	5	Drilled		Same plus few fragments tan ls & some ss, pink, fine; gypsum; pyritic, some slight staining.
2900	2905	5	Drilled		Same - some calcite filled fractures brt fluor & staining
2905	2975	70	Drilled		Same - mineral fluor along fractures trace staining in most samples
2975	2980	5	Drilled		Siltstone or above, tight, marked increase in fluor material. Some gives good to slight cut in CCl ₄ ; staining (?) and fluor occurs along hairline fractures.
	2981		Circ 2 hrs		Same

2981	2984			Fluor material continued circ @ 2984 for 1 hr 30 mins. Samples remained similar w/slight decrease in fluor material @ end of circulating period. NOTE: Samples appear extremely tight. Show occur along small fractures.
2984	2995	11	Drilled	Siltstone, lt gry to white, micaceous, pyritic, slightly calc, appears tight, some fluor, slight cut, fluor seems to be mainly mineral interbedded shale, lt gry, pyritic, micaceous
2995	3000	5	Drilled	Same, plus numerous siltstone cuttings with staining and some saturation; fair fluorescence, good cut, appears tight
3000	3002	2	Drilled	Same w/increase in staining circ 1 hr 30 mins - % of cuttings exhibiting staining remained same
3002	3004	2	Drilled	Circ 2 hrs 15 mins. Same lithology - staining persists
3004	3005	1	Drilled	Same - both sh and siltstone exhibit staining
3006	3010	4	Drilled	Siltstone, lt grn gry, micaceous, pyritic, calc, appears tight, numerous cuttings either stained or saturated % of saturation appears to be increasing; interbedded sh lt grn gry, pyritic, micaceous, some of this sh stained also - staining in both lithologies produces fair fluor, fair cut no kick on logger
3010	3015	5	Drilled	Ls, lt gry to white, finely xln, sndy, fossiliferous, appears highly fractured much staining, saturation and some live oil associated w/fracturing, porosity appears to be due mainly to small vugs or cavities; samples have petroliferous odor; oil scum forms on water sample is washed in. Fair fluor, good cut. Circ 1 hr 30 min @ 3015 first samples of ls were all saturated or stained, later ones had some ls with no staining

3015	3016	1	Cored		Ls, dk brownish gry to gry, med hd, partly silty, fractured w/gry chert inclusions, mostly stained, blk heavy hydrocarbon material along fracture plane, strong cut, strong sulphur odor, local barren streaks and patches
3016	3017	1	Cored	1	Same - few hairline fractures filled w/calcite and heavy hydrocarbon; stain is more streaked and constitutes a smaller total % of core. Few vugs, good cut, sulphur odor
3017	3018	1	Cored	1	Same - increase in chert. Stain and heavy hydrocarbon filled fractures persist, good cut, sulphur odor
3018	3019	1	Cored	1	Same - increase in chert and hydrocarbon filled hairline fractures, decrease in total stain, good cut, strong sulphur odor
3019	3019 $\frac{1}{2}$	$\frac{1}{2}$	Cored		Same - clay mineral present, wet (?) large hydrocarbon filled fracture, cut stain and sulphur odor
3019 $\frac{1}{2}$	3021				Not recovered
3021	3025	4	Drilled		Ls, dk brn gry to lt gry & white, hd to med hd, dense, partly silty, many fragments stained, few appear saturated, some contain heavy blk oil in vugs and fractures. Some fragments exhibit some intergranular and pinpoint porosity. Abundant chert, gry to milky indicates that chert nodules have been cut. Few fragments have apparently been bleeding blk oil. Some of the brn stained ls has a mottled appearance.
3025	3030	5	Drilled		Ls, lt brn gry to lt gry, finely xln to sucrosix, med hd to hd, contains numerous grn phosphatic inclusions, varies from porous to tight appearing, fractured and in part vuggy, fractures & some vugs calcite filled, numerous cuttings exhibit staining, often in connection w/fracturing, petroliferous substances are brn oil & a blk asphaltic "residual appearing" material. Much intbd and/or nodular chert, lt to med gry, most is stained, contains calcite filled cavities.

3030	3040	10	Drilled	Same plus a chert, med gry, containing calc material which is lt brn gry, chert appearance in cryptoxln
3040	3045	5	Drilled	Same - lt gry ls more abundant stain decreasing; trace gypsum
3045	3050	5	Drilled	Ls, lt gry, cryptoxln to dense, with grn phosphatic inclusions, some staining, med hd, interbedded chert; trace tan silty ls; trace gypsum & pyrite
3050	3054	4	Drilled	Same - globule of heavy blk oil
3054			Circ 1 hr 15 mins	Zone of porosity indicated by ls, lt gry as above becoming very porous. Contains blk dead oil stain. No reaction on mud logger
3054	3060			Ls, lt gry to med gry, dense to finely xln tight to porous, phosphatic inclusions, partly fossiliferous. Spotty stain and saturation, petroliferous odor, little fluor, good cut; interbedded chert; some ls cuttings exhibit fractures filled with hydrocarbon material; some free blk heavy oil in fresh sample; some pyrite; possibly 20% of porous ls exhibits some spotty stain; probably drlg mostly porous ls in which stain occurs; mud logger not affected; some oil residue in pores; pin point and intergranular porosity
3060	3065	5	Drilled	Same plus ls, lt gry, silty, w/some stain; this sample in general yields a weaker petroliferous odor and has a smaller % of stain and saturation
3065	3080	15	Drilled	Same - increase in silty ls; decrease in stain
3080	3085	5	Drilled	Same - decrease in silty limestone
3085	3100	15	Drilled	Ls, lt gry, w/grn phosphatic inclusions, dense, med hd, tight, fractured, some small vugs filled w/qtz and pyrite; interbedded chert, lt blue; some typ fracture fillings
3100	3110	10	Drilled	Same w/some spotty staining, no fluor.

3110	3130	20	Drilled	Dolo, grn gry, argillaceous, silty, med hd to hd, appears tight some <u>fine mica</u> & <u>pyrite</u> disseminated throughout
3130	3140	10	Drilled	Dolo as above w/anhydrite fracture fillings
3140	3145	5	Drilled	Gyp & anhydrite, white to very lt brn gry w/slight stain, good fluor & cut along hairline fractures
3145	3150	5	Drilled	Gyp & anhydrite as above plus ls, lt gry cryptoxln, partly argill, partly siliceous w/few spots & streaks of stain associated with local porosity zones; plus med gry to brn gry dolomitic siltstone (?) which is partly stained with some fluor & yields slight cut in CCl ₄ , tight; some chert, white to pale blue; pyrite; some lt gry dolomitic sh
3150	3155	5	Drilled	Siltstone, brn gry, slightly calc (or dolo) argillaceous, partly stained, fluor, slight cut, tight; ls as above; some gyp & anhydrite
3155	3158	3	Drilled	As above w/marked increase in gyp and anhydrite; siltstone continues to fluor & give very slight cut; med logger does not register gas; one fragment ss, gry, w/numerous dk grains fine to coarse, poorly sorted, calc.
3158	3160	2	Drilled	SS, gry w/dark grains, calc, fine to coarse, conglomeratic in part, tight apparently no show, no fluor or cut; interbedded w/considerable gyp & anhydrite. Some ls, lt gry; some siltstone as above is slightly stained & has very slight cut; fluor is a dull rusty yellow; siltstone is probably cavings.
3160	3165	5	Drilled	SS, gyp & anhydrite as above; gyp is interbedded & intermingled with the SS and conglomerate; few pale blue to white chert inclusions; siltstone and some ls above are present as cavings; pyrite

3165	3170	5	Drilled	Conglomeratic ss as above plus dolo, dk brn gry, silty w/scattered dead oil stain and blk residue; marked decrease in gyp and anhydrite; some lt gry cryptoxln ls w/stain associated with porous zones; few fractures filled w/blk hydrocarbon residue; one fragment of conglomerate has slight oil stain & cuts slightly
3170	3175	5	Drilled	Siltstone, lt grn gry, calc, argil; much chert, usually highly fractured; some blk residual material along fracs; decrease in amt of SS
3175	3180	5	Drilled	Siltstone, lt gry & lt grn gry, calc, argill, fractured, calcite fracture fillings, some of calcite exhibits staining; interbedded chert, bluish gry
3180	3185	5	Drilled	Some siltstone w/qtz filled vugs having good stain & cut; no fluor; interbedded blue chert; ls, lt gry, silty w/dark spots throughout; cavings
3185	3188	3	Drilled	Siltstone & silty ls as above w/decrease in stain
3188	3190	2	Drilled	Same, some fluor, but very little stain
3190	3195	5	Drilled	Siltstone as above w/gry silty, argil ls, some lt gry silty ls, some gry silty conglomeratic ls containing dk partially rounded fragments of variable size; much chert, pale bluish gry; sm amt stain mostly associated w/vugs (cavings?); few fragments of siltstone fluor slightly (cavings?), euhedral grains indicate vugs - fractures; pyrite; small amt gyp; some calcite
3195	3200	5	Drilled	Ls (Dolo?), grn gry, argill, silty, conglomeratic, angular to rounded fragments, fossiliferous - fragments incorporated are a dk brn hd material, many are gastropods or gastropod fragments
3200	3210	10	Drilled	Same plus chert, bluish gry

3210	3215	5	Drilled		Ls as above; increase in the brn calc, conglomeratic ss, grains are partially rounded, some are calc; some ls, lt gry cryptoxln; chert; probably drlg the preceding lithologies interbedded; few stained silt & ls fragments (cavings?). The above brn ss does not fluor but a few fragments cut slightly
3215	3220	5	Drilled		SS, dk brn, calc, conglomeratic in part; some interbedded chert (fracture filling?); also some calcite filled fractures; scattered dead oil residue & stain
3220	3225	5	Drilled		Same, plus ls, lt gry to lt grn gry, <u>sndy to very sndy, hd</u>
<u>SAMPLE TOP WEBER 3224'</u>					
3225	3235	10	Drilled		Ls as above - grades into ss, lt gry to white; fine to med hd, calc, poorly sorted, cntains some heavy blk hydrocarbon and some streaked staining, tight
3236	3241	5	Cored	5	SS, lt gry w/dk gry streaks, fairly friable, fine to coarse grained, calc, w/dead oil residue along fractures & also making dk gry color along cross beds, very slight sulphur odor, appears wet, fairly porous, few fractures
3241	3242½	1½	Cored	1½	SS, lt to med gry, mostly fine, hd (less friable), w/few streaks & blotches of dead oil stain; thin dk gry sh stringer at base; slightly porous
3242½	3249	6½	Cored	6½	SS, lt to dk gry, fine to coarse, med hd, partly friable, few scattered stks and blotches of dead oil stain, partly calcareous, cross-bedded few diagonal fractures, appears wet, fairly porous
3250	3263	13	Cored	13	SS, lt gry, w/few dk gry streaks below 3258; good porosity, friable with excellent porosity and extremely friable stks @ 3252, 3257, 3260, & 3262, numerous high angle fractures above 3258, non calc wet cross beds with dip up to 26°

3263	3277	14	Cored	14'	SS, lt gry fine to coarse (?), porous fairly friable, non calc, few high angle fractures, cross bedded, wet, some thin shale partings at 3269, few med gry streaks
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ELECTRIC LOG TOPS

Entrada	573
Carmel	796
Nugget	963
Chinle	1799
Moenkopi	1970
Phosphoria	3010
Weber	3214

Date	Time	Gal.	Vis.	Weight	Water Loss	Ph.	Filter- Cake	Fiber- tex	Wool	Hulls	Caustic	Tannex	Redwood Bark	Seal Flakes
6/7/56	Evening	2500#						100#	200#	100#				
6/8/56	Morning		38	9.2										
	Daylight		35-43	9.4										
	Evening	700#						120#						
6/9/56	Morning		35-42	9.2 - 9.3										
	Daylight		35-38	9.4 - 9.9				80#		100#				
	Evening		38-39	9.8 - 9.9				120#						
6/10/56	Morning		37-38	9.8				40#						
	Daylight		35-45	10 -10.3										
	Evening	1300#	33-44	10.2				160#		100#				
6/11/56	Morning		33	9.1										
	Daylight		35	9.4										
6/12/56	Morning		36	9.4										
	Daylight		35-38	10-10.3										
	Evening		35-40	9.4-9.8										
6/13/56	Morning	300#	38-30											
	Daylight		33-35											
	Evening		35-38											
6/14/56	Morning		37											
6/16/56	Evening	2700#												
6/17/56	Daylight		50-35								25#	50#		
	Evening	1200#	45	9	10.4	8								
6/18/56	Morning	2500#	48-50	9.2				440#		500#			1 Bale	
	Daylight		43-56	9.2 - 9.3	9.2	8.5	2/32				15#	25#		
	Evening		46-50	9.4	10.4		2/32				35#	50#		
6/19/56	Morning		42-54	9.2	12.0		2/32							
	Daylight		42-44	9.2	10.1		2/32							
	Evening		44-45	9.3	10.4		2/32	80#						
6/20/56	Morning		50	9.3 - 9.4	12.4		2/32							
	Daylight	3000#	48-55	9.6				800#	100	1000#				250
	Evening	2500#						520#		400#	25#	25#		40

LOCATION

Sec. 34, T. 3 N., R. 22 E., Daggett County, Utah

NAME OF WELL

GOV'T. #1 - Antelope Flats

Date	Time	Bentonite Gel.	Vis.	Weight	PPM NaCl	Wtr. Loss	Pb.	Filter Case	Jell Flake	Wool	Hulls	Caustic	Tannex	Fiber-Tex
6/21/56	Morning		55-47	8.8-8.9		10						25#	25#	
	Daylight		45-41	8.7-8.8		10.1						25#	50#	
	Evening		42-43	9.2		9.3	8.0	2/32				25#	25#	
6/22/56	Morning	1100#	62-55	9.0		8.	9.-11.	2/32			200#	25#	75#	40#
	Daylight	8400#	51	8.9		9.2	8.5	2/32	550#		4500#			2240#
	Evening		73-74	8.5		11.6	7-9	2/32				50#	50#	
6/23/56	Morning		43-60	8.5-8.7		9.1	8-11	2/32				75#	75#	
	Daylight		44-46	8.5		10	11	2/32				25#	50#	
	Evening	1500#	40-47			10			150#		1000#	25#	25#	400#
6/24/56	Morning	3600#	50-52	8.7-8.9			8-9		250#		1800#	25#	25#	800#
	Daylight		50-56	8.7-8.9		10	8	2/32				50#	50#	
	Evening		48-54	9.2		10	9-10	2/32				50#	50#	
6/25/56	Morning	300#	45-55	8.7-8.8		8.8	10	2/32				25#	25#	
	Daylight		45-50	8.8		5.6	11	2/32				50#	50#	
	Evening		50-56	8.7		10.2	10	2/32						
6/26/56	Morning		50-55	8.7-8.8		6.4-5	10-11	2/32				25#	25#	
	Daylight		54-75	8.7		6.1	10	2/32				25#	50#	
	Evening	500#	50-60	8.9		7	10.5	2/32	25#		300#			120#
6/27/56	Morning		48	8.8-8.9		7	10	2/32				25#	25#	
	Daylight		50-56	8.8		6.5	10	2/32				25#	25#	
	Evening	1300#	55											
6/28/56	Morning		45-47	8.9		7.4	9	2/32				50#	50#	
	Daylight		50-53	8.8		6.9	9/	2/32						
	Evening		51-52	9-9.1		10.2	10-11	2/32				50#	50#	
6/29/56	Morning		50-52	9-9.1		7.2	10-11	2/32				25#	25#	
	Daylight		46-55	8.9-9.2		4.8-8.5	11	2/32				35#	35#	
	Evening		47-50	9.1-9.8		7	11	2/32						
6/30/56	Morning	100#	50-55	9.1-9.2		6.2	11	2/32	125#		1400#	25#	25#	560#
	Daylight	3700#	67-190	8.8		9	8	2/32	250#		1100#	50#	35#	480#
	Evening		55-62	9		13	9-10	2/32				50#	50#	
7/1/56	Morning		48-64	8.7-8.9		7.4	10-11	2/32				25#	25#	
	Daylight		55-60	8.6-8.7		7.3	10-11	2/32				35#	35#	
	Evening		52-55	9-9.1		7	10-11	2/32				25#	25#	
7/2/56	Morning		50-55	8.8-8.9		7	11	2/32				25#	25#	
	Daylight		47-52	8.8-9		4.8-5.1	9/ -11	2/32				35#	35#	
	Evening		50-52	8.8-9		6	11	2/32						
7/3/56	Morning	2500#	55-60	8.9		6	11		125#		1200#	50#	50#	240#
	Daylight	1100#	70-56	8.6		10.8	8	2/32	400		1000	35#	35#	480#
	Evening		55-57	8.8			9						50#	50#

LOCATION Sec. 34, T. 3 N., R. 22 E., Daggett County, Utah

NAME OF WELL #1 Gov't., Antelope Flats

Date	Time	Gel.	Vis.	Weight	Wtr. Loss	Pb	Filter Cake	Jell Flake	Wool	Hulls	Caustic	Tannex	Fiber-tex	Strata Seal
7/28/56	Morning	800#	70-75	9	36		3/32	50#		50#	50#	Preservative		25# Insta
	Daylight	700#	75-100	9.3	43									
	Evening	200#	65	9.2				75#		100#				
7/29/56	Morning		80-90	9.3-9.4	47									
	Daylight	800#	80-85	9.2 - 9.5	45					100#			120#	120# Falco
	Evening	4900#						400#	1300#	2000#			900#	700# Insta
7/30/56	Morning	2600#	65	7.8				225#		500#	280#	Instaseal	80#	
	Daylight		67	8.6	22		4/32							
	Evening	800#	85-90	9.1-9.2				50#		200#			40#	100#
7/31/56	Morning	1400#	75-90	9				175#		500#	80#	Insta 25#	Pres. 120#	
	Daylight	700#	78-80	8.5-8.8				50#		300#			120#	
	Evening		95-150	9.3										
8/1/56	Morning		60-90	9-9.1										
	Daylight	400#	55-80	8.9-9				100#		400#			160#	
	Evening	600#									120#	Falco seal	80#	
8/2/56	Morning	5300#						250#		1300#	1100#	360#	Falco 400#	
	Daylight	2200#						50#		200#			120#	
	Evening	2000#	67-90	8.9	25		3	50#	100#	Pres 200#	50#	50#	40#	
8/3/56	Morning	1200#	68-80	8.9-9	21	8		100#		400#	100#			
8/4/56	Morning			8.8-8.9	8.4	11					50#	50#		
	Daylight		90-95	8.5-8.8	8.8						50#	50#		
	Evening		95-100	9.1		11				600#	anhydrox			
											50#	50#		
8/5/56	Morning		110-130	9.1		11								
	Evening		120	9	7.1	11	2/32	50#			50#	50#	40#	
8/6/56	Morning	400#	150-180	9.1	7	11			50#	Dvilsco	35#	35#	400#	Anhydrox
	Daylight		140-150	8.8-9	7									
	Evening	100#	82-142	9	6.4	11	3/32				30#	35#	300#	Anhydrox
8/7/56	Morning		95-110	9.2	5.6	11					35#	35#		
	Daylight		57-95	8.8-9.1	6						35#	35#		
	Evening	250#	120-80	9.1	5.2	11	2/32	25#		100#	25#	25#		
8/8/56	Morning		85-87	8.6-8.8	6.8	11					25#	25#		
	Daylight		68-80	8.9-8.8	7			25#		100#	25#	25#		
	Evening	500#	65-72	9.1	6.8	11	2/32				25#	25#		
8/9/56	Morning		65-73	9	6	11					25#	25#		
	Daylight	900#	77	8.9-9	5	11.5		25#	20#	Dvilsco				25# Fbrtex
										100#	50#	50#		200# anhyd
	Evening	400#	84-120	9.2	6.4	11	2/32				25#	25#	400#	anhydrox
8/10/56	Morning		125	8.9	7	11	2/32				25#	25#	400#	anhydrox

PROGRESS REPORT

8 am - 8 am

Date	Time	Status	Depth	Made	Fm.	Remarks
6/3	8:00 am	Rigging up				
6/4	8:00 am	W.O.O.				
6/5	8:00 am	W.O.O.				
6/6	8:00 am	W.O.O.				
6/7	8:00 am	W.O.O.				
6/8	8:00 am	Drlg.	134	134	Morrison	
6/9	8:00 am	Drlg.	320	186	Morrison	
6/10	8:00 am	Drlg.	526	206	Curtis	Top of Curtis fm 420'
6/11	8:00 am	Reaming				Preparing to set surface casing TD 616'
6/12	8:00 am	Reaming				Top of Entrada fm 582'
6/13	8:00 am	Reaming				
6/14	8:00 am	Running 10 3/4"				
6/15	8:00 am	W.O.C.				
6/16	8:00 am	W.O.C.				
6/17	8:00 am	Work on BOP				
6/18	8:00 am	Drlg	811	195	Carmel	Top of Carmel fm 798'
6/19	8:00 am	Drlg	895	84	Carmel	Holding weight off bit
6/20	8:00 am	Drlg	952	57	Carmel	
6/21	8:00 am	Drlg	983	31	Nugget	Lost circ @ 957' approx 8:05 am 6/20
6/22	8:00 am	Drlg	1046	63	Nugget	Lost circ @ 1046' approx 7:00 am 6/22
6/23	8:00 am	Drlg	1075	29	Nugget	Lost circ @ 1098 approx 10:05 pm 6/23
6/24	8:00 am	Drlg	1099	22	Nugget	Regained circ @ approx 4:55 am. Lost circ 1098 1/2 @ 5:20 am. Rec circ at 6:40 am
6/25	8:00 am	Drlg	1139	40	Nugget	Holding weight off bit
6/26	8:00 am	Drlg	1176	37	Nugget	Gas kick @ 1140, very thin zone or contamination
6/27	8:00 am	Drlg	1219	44	Nugget	Hole becoming more straight using 4000# on bit
6/28	8:00 am	Drlg	1287	69'	Nugget	Hole 2 1/2° at 1269', wt on bit reduced to 2000 @ 1283
6/29	8:00 am	Drlg	1314	27'	Nugget	Hole 2 3/4° @ 1299
6/30	8:00 am	Cleaning tanks	1331	17'	Nugget	Lost circ @ 1331'
7/1	8:00 am	Drlg	1351	20'	Nugget	
7/2	8:00 am	Making trip	1374	23'	Nugget	Deviation 3° @ 1360
7/3	8:00 am	Mixing mud	1403	29'	Nugget	Lost circ @ 1403
7/4	8:00 am	Coring	1419	16'	Nugget	Lost circ @ 1419
7/5	8:00 am	Trip	1452	33'	Nugget	Pulled corehead @ 1428'; drlg ahead
7/6	8:00 am	Mixing mud	1505	53'	Nugget	Lost circ @ 1505
7/7	8:00 am	Drlg	1534	29'	Nugget	
7/8	8:00 am	Mixing mud	1580	46'	Nugget	Lost circ @ 1580'
7/9	8:00 am	Drlg	1611	31'	Nugget	Lost circ @ 1609
7/10	8:00 am	Drlg	1650	39'	Nugget	Ran diamond bit @ 1616'
7/11	8:00 am	Drlg	1698	48'	Nugget	Lost circ @ 1678'
7/12	8:00 am	Drlg	1727	29'	Nugget	Diamond bit off at 1732
7/13	8:00 am	Making trip	1766	39'	Nugget	Diamond bit on at 1766
7/14	8:00 am	Mixing mud	1770	4'	Nugget	Lost circ @ 1770
7/15	8:00 am	Drlg	1783	13'	Nugget	
7/16	8:00 am	Trip	1829	46'	Chinle	Preparing to core
7/17	8:00 am	Drlg	1899	70'	Chinle	
7/18	8:00 am	Drlg	2000	101'	Chinle	

PROGRESS REPORT

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<u>Date</u>	<u>Time</u>	<u>Status</u>	<u>Depth</u>	<u>Made</u>	<u>Fm.</u>	<u>Remarks</u>
7/19	8:00 am	Drlg	2087	87'	Moenkopi	Lost circ @ 2003 (up the hole?)
7/20	8:00 am	Mixing mud	2183	96'	Moenkopi	Lost circ @ 2181 (up hole?)
7/21	8:00 am	Drlg	2246	63'	Moenkopi	Lost 5½ hrs lost circ & work on rig
7/22	8:00 am	Drlg	2333	87'	Moenkopi	
7/23	8:00 am	Drlg	2409	76'	Moenkopi	Lost circ @ 2395
7/24	8:00 am	Mixing mud	2455	46'	Moenkopi	
7/25	8:00 am	Drlg	2495	40'	Moenkopi	
7/26	8:00 am	Drlg	2544	49'	Moenkopi	
7/27	8:00 am	Drlg	2608	64'	Moenkopi	Circ. samples @ 2577
7/28	8:00 am	Drlg	2667	59'	Moenkopi	Cored 2619 to 2629
7/29	8:00 am	Drlg	2743	76'	Moenkopi	
7/30	8:00 am	Drlg	2795	52'	Moenkopi	Lost circ @ 2756
7/31	8:00 am	Drlg	2851	56'	Moenkopi	Cored 2789-2799
8/1	8:00 am	Drlg	2917	66'	Moenkopi	
8/2	8:00 am	Lost circ.	2926	9'	Moenkopi	Ran DST 2964-2925
8/3	8:00 am	Trip	2966	40'	Moenkopi	Lost circ up hole after DST #1
8/4	8:00 am	Drlg	3006	40'	Moenkopi	
8/5	8:00 am	Prep to test	3021	15'	Phosphoria	Testing 2972-3025'
8/6	8:00 am	Drlg	3034	13'	Phosphoria	
8/7	8:00 am	Drlg	3073	39'	Phosphoria	
8/8	8:00 am	Drlg	3095	22'	Phosphoria	
8/9	8:00 am	Drlg	3127	32'	Phosphoria	
8/10	8:00 am	Drlg	3168	41'	Phosphoria	
8/11	8:00 am	Drlg	3199	31'	Phosphoria	Repaired Rig (Drive chain)
8/12	8:00 am	Drlg	3219	20'	Phosphoria	
8/13	8:00 am	Coring	3236	17'	Weber	
8/14	8:00 am	Coring	3263	27'	Weber	
8/15	8:00 am	Logging	3277	14'	Weber	TD - Running electric logs

BIT RECORD Page 1
 WELL NAME Antelope Flats Gov't. #1
 COMPANY The Ohio Oil Company

Bit #	Corehead #	Size	Make	Type	Serial #	On at	Off at	Ft. Made	Hrs on Bottom	R.P.M.	Wt on Bit	Condition When Pulled
1		9 7/8	HTC	OSC 3	47314	0	201	201	8			
2		9 7/8	HTC	OSC	57702	201	245	44	4 1/4			
3		7 3/8	HTC	OSC	35686	245	420	175	15			
4		7 3/8	HTC	OSC	35693	420	526	106	13 1/2			
5		7 3/8	HTC	OSC	30547	526	616	90	9			
2 RR		9 7/8	HTC	OSC	57702	245	540	295	12			
Reamer #1		15" Reed				0	471	471	37 1/4			
Reamer #2		15"				471	535	64	10			
6		7 3/8	HTC	OSC	31426	616	730	114	6 1/2			Dull
7		7 3/8	HTC	OWS	30534	730	862	132	10			
8		7 3/8	Reed	2 HM	36205	862	899	37	18 1/4	175	2000	Dull
9		7 3/8	HTC	OSC-4	36799	899	957	58	19 3/4	150-175	2000-4000	Dull & loose
10		7 3/8	HTC	OSC	35204	957	992	35	14 1/2	150-200	2000-4000	Dull
11		7 3/8	Reed	2 HM	35932	992	1034	42	14 1/2	150-200	2000	Dull
12		7 3/8	HTC	OWS	35928	1034	1055	21	9	150-200	2000-4000	Green
13		7 3/8	HTC	OWS	36718	1055	1092	37	13 1/2	200	2000-4000	Dull
14		7 3/8	HTC	OWC	32079	1092	1101	9	9	200	2000	Dull
15		7 3/8	HTC	OSC	35687	1101	1123	22	12	200	2000-3000	Med Dull
16		7 3/8	HTC	OSC	29485	1123	1149	26	11 1/4	150	2000-3000	Dull
17		7 3/8	HTC	OSC	35203	1149	1172	23	12 1/4	200	3000	Dull
18		7 3/8	HTC	OWS	36711	1172	1209	37	17 3/4	200	4000	Dull
19		7 3/8	HTC	OWS	36717	1209	1268	59	12 3/4	150	6000	Dull
20		7 3/8	HTC	OWS	36737	1268	1268	--	---	---	---	Bit Plugged
21		7 3/8	HTC	OWS	35924	1268	1290	22	9 1/4	150-200	2000-6000	Med Dull
22		7 3/8	HTC	OSC	35202	1290	1308	18	10	150	3000-4000	
				(1 cone cut off)								
20 RR		7 3/8	HTC	OWS	36737	1308	1317	9	4 1/4	180	2000	Green
23		7 3/8	HTC	OSC	34447	1317	1329	12	11 3/4	175-180	2000	Dull
24		7 3/8	HTC	OSC	35221	1329	1346	17	15 1/2	175	2000	Dull
25		7 3/8	HTC	OWS	31212	1346	1361	15	11 3/4	175	2000	Med Dull
26		7 3/8	HTC	OSC	34449	1361	1374	13	11 1/4	175-200	2000-4000	Med Dull
27		7 3/8	HTC	OWS	36735	1374	1394	20	16	175-200	2000-6000	Dull
28		7 3/8	Reed	2 HM	23333	1394	1412	18	10	200	2000-4000	Dull
	1	6 3/4x3 1/2	Christensen	Dia.	1133	1412	1428	16	10 3/4	70-90	2000-4000	
29		7 3/8	HTC	OWS	37044	1428	1452	24	11 1/4	200	3000-4000	
30		7 3/8	HTC	OW	31211	1452	1474	22	9 3/4	200	3000-8000	Dull
31		7 3/8	HTC	OWS	37041	1474	1520	46	12 1/4	175-200	6000-8000	Dull

WELL NAME: Antelope Flats Gov't. #1COMPANY: The Ohio Oil Company

Bit #	Corehead #	Size	Make	Type	Serial #	On at	Off at	Ft. Made	Hrs on Bottom	R.P.M.	Wt on Bit	Condition When Pulled
32		7 3/8	HTC	OWS	33671	1520	1560	40	17 1/4	175-200	2000-6000	Dull
33		7 3/8	HTC	OWS	36712	1560	1616	56	14 1/4	175-200	4000-6000	Dull
34		7 1/4	Hycalog	Diamond	578-7	1616	1732	116	58 1/2	75	12,000	Good
35		7 3/8	HTC	OWS	37025	1732	1766	34	12 1/2	75-200	4000-12000	
34		7 1/4	Hycalog	Diamond	578-7	1766	1770	4	3			
36		7 3/8	Reed	2 HC	19404	1770	1775	5	3 1/2			Good
37		7 3/8	HTC	OWS	37039	1775	1816	41	19	175-200	6000-8000	Dull
38		7 3/8	HTC	OSC	35208	1816	1829	13	3 1/2	175	6000-8000	Green
	#1	6 3/4x3 1/2	Christensen Dia.		1133	1829	1844	15	8 3/4	70	8000	Good
38 rerun		7 3/8	HTC	OSC	35208	1844	1916	72	11 1/2	90	10,000	Dull
39		7 3/8	HTC	OSC	29538	1916	1983	67	12	90	12,000	Med Dull
40		7 3/8	HTC	OSC	35222	1983	2095	112	22 1/4	90	12,000	Dull
41		7 3/8	HTC	OSC	34443	2095	2198	103	19 3/4	90	12,000	Dull
42		7 3/8	HTC	OSC	34528	2198	2303	105	22 1/4	90	1000-12000	Dull
43		7 3/8	Reed	T	98514	2303	2398	95'	20 1/2	90	12,000	Dull
44		7 3/8	HTC	OSC	34527	2398	2455	57	18 1/4	90	12000-14000	Dull
45		7 3/8	HTC	OWS	37074	2455	2486	31	10 1/2	90	12000-14000	Dull
46		7 3/8	HTC	OSC	34451	2486	2526	40	12 1/4	90	12000-14000	Dull
47		7 3/8	Reed	T	99544	2526	2549	23	9	90	12000-14000	Dull
48		7 3/8	HTC	OWS	37170	2549	2619	70	18	90	1200-1400	
	#1	6 3/4x3 1/2	Christensen Dia.		1133	2619	2629	10	3 1/2	50-70	6000-8000	
49		7 3/8	HTC	OSC	34450	2629	2700	71	15 1/4	90	12000-14000	Dull
50		7 3/8	HTC	OSC	34547	2700	2756	56	15	90	12000-14000	Dull
51		7 3/8	HTC	OSC	34533	2756	2789	59	12	90	12000-14000	Green
	#1	6 3/4x3 1/2	Christensen Dia.		1133	2789	2799	10	3	75	8000-10000	
51 rerun		7 3/8	HTC	OSC	34533	2789	2826	59	12	90	12000	
52		7 3/8	HTC	OSC	35196	2826	2885	59	16 1/2	90	8000	
53		7 3/8	HTC	OSC	34535	2885	2925	40	12 3/4	100	10000	
54		7 3/8	HTC	OSC	28792	2925	2966	41	16 3/4		1000-12000	
55		7 3/8	HTC	OSC	34548	2966	3006	40	14 1/2	100	10000	
56		7 3/8	HTC	OSC	34548	3006	3034	28	8 3/4	90	10000-12000	Dull
	#1	6 3/4x3 1/2	Christensen Dia.		1133	3015	3021	6	3 1/4	75	8000-10000	
57		7 3/8	HTC	OWS	37036	3034	3061	27	11	90	10,000-12,000	
58		7 3/8	HTC	OWS	37067	3061	3078	17	10 3/4	100	12000	
59		7 3/8	HTC	WTR	31813	3078	3095	17	9	90-120	12000-14000	Dull & out of gage
60		7 3/8	HTC	OWC	28799	3095	3113	18	8	90-100	14000	Dull & out of gage
61		7 3/8	Reed	2 HSI	29716	3113	3127	14	10	90-100	14000	Dull
62		7 3/8	HTC	OWS	36962	3127	3160	33	14 1/4	90-110	14000	

BIT RECORD

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WELL NAME Antelope Flats Gov't. #1

COMPANY The Ohio Oil Company

Bit #	Corehead #	Size	Make	Type	Serial #	On at	Off at	Ft. Made	Hrs on Bottom	R.P.M.	Wt on Bit	Condition When Pulled
63		7 3/8	HTC	OWS	37062	3160	3180	20	11 3/4	90	14,000	Dull out of gage
64		7 3/8	HTC	OWS	37439	3180	3200	20	12 1/2	100	14,000	
65		7 3/8	HTC	OWS	37017	3200	3221	21	12	100	14,000	Dull
66		7 3/8	HTC	OWS	36949	3221	3232	11	8 3/4	100	14,000	Dull
67		7 3/8	HTC	OWC	28785	3232	3236	4	7 1/4	100	14,000	
	#1	6 3/4x3 1/2	Christensen	Dia.	1133	3236	3249	13	3 1/2	105	10,000	
68		7 3/8	HTC	OWC	36391	3249	3250	1	1 1/2	200	8,000-10,000	
	#1	6 3/4x3 1/2	Christensen	Dia.	1133	3250	3277	27	6 3/4	76-90	10,000	Good

DEVIATIONS

<u>Depth</u>	<u>Dev.</u>	<u>Depth</u>	<u>Dev.</u>
67	1/2°	1481	2 1/2°
97	1/4°	1511	2 3/4°
138	1/2°	1541	2 5/8°
168	1/4°	1571	2 7/8°
198	1/2°	1601	2 3/4°
229	1/4°	1637	2 1/2°
245	3/4°	1666	2°
275	1/2°/	1695	2 1/4°
309	3/4°	1722	2 1/4°
338	3/4°/	1753	2 3/4°
368	3/4°	1784	2 1/2°
398	3/4°	1816	2 1/2°
435	3/4°	1846	2 1/4°
452	3/4°	1905	2 1/4°
483	1/2°/	1968	2 5/8°
513	3/4°	2028	2 3/4°
544	1°/	2086	2 3/4°/
575	1°	2148	3°
605	3/4°	2209	3 1/4°
630	1°/	2270	3°
660	1°/	2329	2 3/4°
700	1 1/4°	2390	3°
764	1 1/2°	2451	2 3/4°
813	2°	2511	2 3/4°
843	2 1/2°	2658	3°
876	2 1/4°	2651	3°
915	2 1/4°	2813	4 1/4°
936	2°/	2843	3 3/4°
965	2 1/2°	2874	3 3/4°
1005	2 1/4°	2907	3 3/4°
1023	2 1/4°	2963	3 1/2°
1051	2 1/4°	2996	3°
1082	2 1/2°	3086	3 1/4°
1115	2 1/4°	3175	2 3/4°
1157	2 1/4°		
1181	2°		
1210	1 3/4°/		
1240	2°		
1269	2 1/2°		
1299	2 3/4°		
1329	2 3/4°		
1360	3°		
1390	2 3/4°		
1420	2 3/4°		
1450	2 1/2°		

Necessary for Gov. to inspect
before complete RFA or
Furnish us a permit

Ohio oil & gas lease deed
out Oct 8, 1956 - Lease
terminated Oct 1, 1956

Land now under Reclamation
Withdrawal. No Utah

09392 -

to obtain water: -

1. Obtain special use
permit from BLM: See
Mr Lytjoe or Mr Jolley.

2. Furnish OTC Company
a plugging bond

3. File on water w/ state
Engineers.

Additional Information for this well - Needs to be input.

4300910684 - Section 34 3N/22E NE/NW

Government #1 PA'D 560816 Fed # - U-05337

APD - date - 560607

Spud date - 560608

TD - 3277'

ELEV - 6877

operator - Ohio Oil Co.

990 FWL - 1980 FWL

→ (tested - (used formation))

information from BLM file Salt Lake.

(J.L. Thompson telecon w/ Teresa Thompson - BLM)