

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed

Checked by Chief
Approval Letter
Disapproval Letter

PAW:
6-18-71

COMPLETION DATA:

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

Location Inspected
Bond released
State or Fee Land

LOGS FILED

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

[Handwritten initials]

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

U-13713

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

U. S. A.

9. Well No.

DU-2

10. Field and Pool, or Wildcat

Wildcat

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

Section 5, T33S, R21E

12. County or Parrish 13. State

San Juan, 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

Placid Oil Company

3. Address of Operator

2008 United Bank Center Denver, Colorado 80202

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

At surface

NE SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E

At proposed prod. zone

Same as above.

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

20 miles northwest of Monticello, Utah

15. Distance from proposed* location to nearest property or lease line, ft.

2041 Ft.

16. No. of acres in lease

2509

17. No. of acres assigned to this well

80

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

19. Proposed depth

5000' ✓

20. Rotary or cable tools

Rotary

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

6042' G.L.

22. Approx. date work will start*

July 10, 1971

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
15"	13 3/8"	54.5#	60'	Cement to surface.
12 1/4"	9 5/8"	36#	1500'	Cement to surface.

Propose to drill an exploratory test to the Devonian. ✓

1. Primary objective: Mississippian "Leadville" formation.
2. Minimum mud program: 9# fresh water mud to 2900'; 10# salt saturated mud to T.D.
3. Will install and test blowout preventer equipment. ✓
4. Blowout preventers will be given daily operational tests and each test logged.
5. Will drill an 8 3/4" hole from base surface casing to T.D.
6. If commercial production is indicated, will run 5 1/2", 15.5#, J-55 casing and cement with 350 sx. ✓

[Handwritten notes and signatures]

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

[Signature]
James D. Murphree

Title

District Geologist

Date

June 16, 1971

(This space for Federal or State office use)

Permit No.

43-037-30058

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

WELL LOCATION PLAT

BEARING BY TRANSIT COMPASS
WITH 15° DECLINATION SET

FD. BRASS CAP

R 21 E

31 | 32
6 | 5

EAST
2041

50°03'E 5280 (RECORD)

3563
SOUTH

5

T
33
S

U.S.A. DU N°2
ORIG. GROUND
ELEV. 6042

1717 (CALC)
NORTH

John E. Keogh
UTAH REGD. LAND SURVEYOR N°1963

U.S.A. DU N°2
IN SW 1/4, SEC. 5, T 33 S, R 21 E, S.L.B.#M.
SAN JUAN COUNTY, UTAH
FOR: PLACID OIL COMPANY
SCALE: 1"=1000' JUNE 9, 1971
STADIA SURVEY

ELEV. FROM NW COR, SEC. 5, (6060 SCALED)
FROM U.S.G.S. MT. LINNAEUS QUAD. 1954

June 18, 1971

Placid Oil Company
2008 United Bank Center
Denver, Colorado 80202

Re: Well No. U.S.A. DU-#2
Sec. 5, T. 33 S, R. 21 E,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted. However, said approval is conditional upon a letter being forwarded to this Division stating that your company owns all the acreage within a 660' radius of the proposed well site and further, an exception to Rule C-3 is required due to topography.

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

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

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

The API number assigned to this well is 43-037-30058.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

3

PK

AB

PLACID OIL COMPANY
2008 UNITED BANK CENTER
1700 BROADWAY
DENVER, COLORADO 80202

June 21, 1971

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

Attention: Mr. Cleon B. Feight

Re: Well No. U.S.A. DU-#2
Section 5, T33S-R21E
San Juan County, Utah
API #43-037-30058

Gentlemen:

We own leasehold rights on all the acreage within a mile radius of our proposed drillsite. The location as set out in our application for permit was so located because of the rugged topography of the area which precluded us from locating this in the exact center of a 40 acre tract. We appreciate your approval, and I apologize for not having submitted the above information with our application for permit.

Yours very truly,

PLACID OIL COMPANY


Donald F. Smith

DFS:bjw

9049 E 27th St
TULSA 74129

U.S. POSTAL SERVICE
PM
9 JUN



Mr & Mrs PAUL BURCHELL
5066 MOOR DALE CIRCLE
SALT LAKE CITY, UTAH
84117

Ed Schmitt
USGS Durango 8/7/71

Placid

Men - Cavern
lost all fluids

Desert Creek - Sulphur
Wells
out of hole.

alt - 2844
Men - 4250 - Nages area
4387

2995 - deepest can go

- 1) try to clean out
inflatable packs @ 2825
set cement and set
- 2) Atom set @ 2370
Desert Creek
50' above survey
down to packer
~ 500'
- 3) fresh water behind
entrance of Casaj @ 1400'
(cement lock to surface)
150' stand shoe
- 4) 50' @ surface

Tom Murphy of Placid called
later in day. except
we are due of Casaj (surface)
to 250' to Casaj & (did not water)
1600 to 1350

ESB

August 9, 1971

Placid Oil Company
2008 United Bank Center
1700 Broadway
Denver, Colorado 80202

Re: Well No. U.S.A. DU-#2
Sec. 5, T. 33 S, R. 21 E,
San Juan County, Utah
API No. 43-037-30058

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the month of July, 1971, on the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information.

Your cooperation with respect to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SUPERVISING STENOGRAPHER

:SD

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"/> Dry Hole</p> <p>2. NAME OF OPERATOR Placid Oil Company</p> <p>3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, 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 NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-13713</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----</p> <p>7. UNIT AGREEMENT NAME -----</p> <p>8. FARM OR LEASE NAME U.S.A.</p> <p>9. WELL NO. DU-2</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T 33S, R 21E</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GS, etc.) 6042' G.L.: 6052' K.B.</p>	<p>12. COUNTY OR PARISH San Juan</p> <p>18. 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) _____	

(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.)*

Plugged and abandoned August 9, 1971 with cement plugs as follows:

- 2790 - 2820 with 10 sacks
- 2320 - 2790 with 170 sacks
- 1350 - 1600 with 120 sacks
- 1078 - 1228 with 93 sacks
- 109 - 409 with 112 sacks
- Surface - 253 with 95 sacks. Plug above fell resulting in a recement of this plug.

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

SIGNED James D. Murphree TITLE District Geologist DATE August 12, 1971

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

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 P & A

2. NAME OF OPERATOR
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface **NE/SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E**
 At top prod. interval reported below
 At total depth

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U.S.A.

9. WELL NO.
DU-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 5, T 33S, R 21E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

15. DATE SPUDDED **July 14, 71** 16. DATE T.D. REACHED **Aug. 7, 1971** 17. DATE COMPL. (Ready to prod.) _____ 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **6042' G.L.** 19. ELEV. CASINGHEAD **6042'**

20. TOTAL DEPTH, MD & TVD **4387'** 21. PLUG BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS **0-4387'** CABLE TOOLS _____

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
N/A 25. WAS DIRECTIONAL SURVEY MADE **4215' - 3/4"**

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electrolog & BHC Acoustilog 27. **Yes** WAS WELL CORED **2376' - 2421'**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	95'	17 1/2"	100 sacks; 3% cc	None
9 5/8"	36#	1417'	12 1/2"	800 sacks; 2% cc	None
				300 sacks; 3% cc	
				300 sacks; 3% cc	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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) _____ 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

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 James D. Murphree TITLE **District Geologist** DATE **Aug. 12, 1971**

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

INSTRUCTIONS

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

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

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Permian Cedar Mesa	210'	970'	Sandstone - lt. orange to wh., f-cgr., sub-rnd., fn., low pressure fresh water-bearing.	Permian Cedar Mesa	210'	
Wolfcamp	1030'	1420'	Sandstone - wh. - orange, f-m gr. alternating with shale, red brn.-purple and nodular lime. Fresh wtr. bearing flowed 2"-6" stream of fresh water while drilling.	Wolfcamp	970'	
Pennsylvanian Ismay-Desert Cr.	2370'	2700'	Anhydrite, dolomitic shale, and limestone. No apparent primary porosity. Some fractures. Core #1 - Rec. 2' limestone. No P & P. Core #2 - Rec. 2½' limestone, 2½' anhy., 13' doio., 22' anhy., & 2' ls. No P & P. DST #1 - 2389-2703' - op. w/strong blow, strong through pre flow, op. 32 mins., fluid to surf. 10 min. SI 30 mins, op 30 mins., flowed 2" strm. of sulphur water. Rec. 2703' sulphur wtr. in DP	Penn. U. Hermosa Ismay Desert Creek	1390' 2370' 2490'	
				Salt	2844'	
				L. Hermosa	3810'	
				Molas	4170'	
				Mississippian	4240'	

38. GEOLOGIC MARKERS

AUG 16 1977

FR-186 - 1138.9# - 4# - 1112.4#
SIP 1138.9# - 1138.9#
HP 1271.1# - 1271.1#

Mississippian 4380' Limestone - cavernous, good P & P apparently salt water bearing

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number U.S.A. No. DU-2
Operator Placid Oil Company Address 1700 Broadway Phone 892-6191
2008 United Bank Center
Contractor Mesa Drilling Company Address _____ Phone _____
Location NE 1/2 SW 1/2 Sec. 5 T. 33 R. 21 E San Juan County, Utah
S X

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 1030'	1420'	2" - 6" flow	Fresh (550 PPM chlorides)
2. 2389'	2703'	2" flow	Brackish (9,000 PPM cl.) sulphur wtr.

3. NOTE: A water flow was first noted while drilling in the lower Permian @ 1030'. Flow continued with a gradual increase until the flow reached 6" @ 1200', then stabilized.
4. Casing was set @ the top of the Pennsylvanian carbonates @ 1417'. Drilling was resumed and a 3-4" water flow began when a depth of 1570' was reached. It was assumed that the
5. water came from behind the pipe and the pipe was recemented. When drilling was resumed,
(Continue on reverse side if necessary)

<u>Formation Tops:</u>		<u>Pennsylvanian</u>	
<u>Permian</u>			
Cedar Mesa	210 (+5842) Smpl.	Upper Hermosa	1390 (+4662) Smpl.
Wolfcamp	970 (+5082) Smpl.	Ismay	2370 (+3682) E. Log
		Desert Creek	2490 (+3562) E. Log
		Paradox Salt	2844 (+3208) Smpl.
		Lower Hermosa	3810 (+2242) Smpl.
		Molas	4170 (+1882) Smpl.
		Mississippian	4240 (+1812) Smpl.

Remarks:

- NOTE: (a) Upon diminishing supply forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (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.

over ↓

we had a water flow, so the pipe was again recemented. Again we were unable to shut off the water. A 2½" flow @ 1661' increased to a 3-4" flow by the time we reached 1938'. We are unable to determine the exact zones which are contributing water, but we believe the flow is the cumulative effect of a number of thin zones. We were unable to conclusively determine if the water made after casing was set was coming from behind the pipe or whether it was coming from something below the pipe. The log or samples did not indicate any zones of porosity below the pipe, but water may have been coming from fractures.

RULE C-20

REPORTING OF FRESH 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 this office 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.

If no fresh water sands are encountered, it is requested that a negative report to that effect be filed.

AUG 16 1971

9-9-71

August 25, 1971

Placid Oil Company
2008 United Bank Bldg.
Denver, Colorado

Re: Well No. U.S.A. DU-2
Sec. 5, T. 33 S, R. 21 E,
San Juan County, Utah

Gentlemen:

This letter is to advise you that as of this date, we have not received the electric and/or radioactivity logs run on the above referred to well.

It would be appreciated if said logs could be forwarded to this Division at your earliest convenience.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DEROSE
SUPERVISING STENOGRAPHER

:SD

PLACID OIL COMPANY
2008 UNITED BANK CENTER
1700 BROADWAY
DENVER, COLORADO 80202

September 7, 1971

Utah Oil and Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84111

Re: Placid Oil Company
U.S.A. - DU - 2
Utah
San Juan County, Utah

Dear Sirs:

Enclosed for your files are the following for the above captioned:

 X Induction Electrolog
 X Acoustilog - Gamma Ray

Yours very truly,

PLACID OIL COMPANY


James D. Murphree

JDM:sf
Enclosures



WIRELINE SERVICES
PETROLEUM SERVICES DIVISION
Dresser Industries, Inc.

RECOMMENDED* WIRELINE SERVICES PROGRAM

COMPANY: Placid Oil Company ATTENTION: Jim Murphree

WELL: Proposed

LOCATION: Sec. 5 - T33 S - R21 E

PREPARED BY: Ray Utter (Regional Log Analyst) DATE: 6/17/71

COPIES: _____	LOCATION _____
_____	LOCATION _____
_____	LOCATION _____
_____	LOCATION _____
_____	LOCATION _____

REMARKS:

We certainly appreciate having the opportunity of recommending our Wireline services to you and will be looking forward to servicing your well.

DRESSER ATLAS SERVICE LOCATION: Farmington, New Mexico
TELEPHONE: (505) 325-5068 (Bud Dickerson - Manager)

***NOTE: This Recommended Logging Program is an extra service furnished by Dresser Atlas to its Customers free of charge, and it is based on information furnished to Dresser Atlas by the Customer. Therefore, Dresser Atlas does not guarantee any particular results from following this Recommended Logging Program, and in receiving this recommended program the Customer agrees to hold Dresser Atlas harmless from any claims for loss or damage allegedly resulting from the use of any information contained in this Recommended Logging Program.

*SEE TERMS & CONDITIONS ON REVERSE SIDE OF PAGE 1

TERMS AND CONDITIONS

1. The Customer shall at all times have complete care, custody, and control of the well, the drilling and production equipment at the well and the premises about the well. A responsible representative of the Customer shall be present to specify depths for any service which is to be performed.

2. When necessary to repair roads or bridges, or to provide transportation to move our equipment, such shall be arranged and paid for by Customer. Customer shall be responsible for any loss or damage to our equipment, materials or supplies while they are under the care or control of Customer or are being transported by Customer or by conveyance arranged for by Customer.

3. There are obviously many conditions in and about the well of which we can have no knowledge and over which we can have no control. Therefore, we accept this service order only on condition that we do not guarantee any particular results from services to be performed hereunder. Except where damage or injury is caused by gross or willful negligence on our part, the customer shall indemnify us and hold us free and harmless from all claims for personal injuries, including death, and damage, including subsurface damage or injury to the well, alleged to have been caused by our operations under this service order, including claims alleging that injuries or damages were caused by our negligence, whether such claims are made by the customer, by the customer's employees, or by third parties, but not including any claims made by our own employees.

4. We use all reasonable safeguards and precautions in handling radiation materials in connection with logging services rendered by us, but the Customer hereby acknowledges that he is aware that such sources are potentially hazardous. Therefore, performance or attempted performance of any service involving the use of such material shall be subject to and included under the same provisions and conditions as specified in Paragraph 3 hereof. Should a source be lost in the well bore, special precautions must be taken by Customer in fishing operations to avoid damage or breakage of the container of radiation source or radioactive material. If source is not recovered intact, portion remaining in well bore must be isolated by Customer by cementing it in place in borehole or by other approved means.

5. Should any of our equipment become lost in the well when performing or attempting to perform our services hereunder, it is understood that the Customer shall make every reasonable effort to recover the lost equipment. The Customer shall assume the entire responsibility for such fishing operations in the recovery or attempted recovery of any such lost instruments, tools or equipment. None of our employees is authorized to do anything, nor shall any of our employees be required by Customer to do anything other than consult in an advisory capacity with the Customer in connection with such fishing operations. Any fishing tools furnished by us for any such consultation or advice shall be solely an accommodation to the Customer, and such furnishing of the tools and advice shall be subject to and included under the same provisions as specified in Paragraph 3 hereof.

6. Should the Customer fail to recover our lost equipment or damage our equipment in recovering it, Customer shall reimburse us for the replacement cost of such lost equipment or the cost of repairing equipment so damaged, except where such loss or damage results from gross or willful negligence on our part. Customers who have paid our Instrument Protection Charge as set forth in our Price Schedule, with respect to the operation in which the tools were lost or damaged while being recovered, shall not be required to reimburse us for the replacement cost of lost equipment when recovery operations fail or the cost of repairing equipment damaged while being recovered. Equipment covered by our Instrument Protection Charge shall include the cablehead and all equipment below the cablehead.

7. Our cables, bridles, and down hole instruments are designed to operate under conditions normally encountered in the well bore.

This equipment may be seriously damaged by excessive well temperatures and pressures, gas-cut drilling mud, deviated hole, corrosive gases, fluids, or chemicals and other hazardous conditions existing in the borehole. Customer shall pay for all damage to equipment caused by such hazardous conditions and all damage to equipment occurring in the borehole (subject to the exception for recovery damage covered by the Instrument Protection Charge as provided by Paragraph 6) except where such damage results from gross or willful negligence on our part.

8. In making interpretations of logs our employees will give Customer the benefit of their best judgment, but since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or the correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the Customer resulting from any interpretation made by any of our employees.

9. Information regarding our services rendered in Customer's well is held in strict confidence and will be released to others only upon written approval by Owner, or when required by Federal, State, or local laws, regulations, orders, or ordinances, or for use as evidence in court proceedings involving the subject-matter of services rendered.

10. All of the preceding terms and conditions, including Customer's Agreement to hold harmless and to indemnify Dresser Atlas, shall also apply in favor of all divisions and subsidiaries of Dresser Industries, Inc., and in favor of any manufacturer or supplier of any equipment that we may use in the well.

11. Any equipment rented to Customer or placed on Customer's property or premises will be released and returned to the location designated by Dresser Atlas upon 60 days notice.

12. Unless otherwise approved by our Invoicing Department, invoiced charges hereunder shall be in accordance with our current published prices, plus applicable taxes, and payable at the office of Dresser Atlas, a Division of Dresser Industries, Inc., in Houston, Harris County, Texas. Terms for payment of such charges are Net Cash, 15th of the month following invoice date. Interest at the rate of 8% per year will be charged on past due accounts; and if placed with an attorney or other agency, or legal proceedings are employed for collection, Customer shall pay in addition to the amount thereby collected, attorney's or agent's fees of 25% of the amount of the past due account or \$75.00, whichever is the greater amount.

13. Any tax based on or measured by the charges made for, or the cash receipts from the sale of products and/or the rendering of services shall be in addition to the price stated in the Price Schedule.

14. Prices are subject to change at any time without notice.

15. Failure to enforce any or all of the herein specified terms and conditions in any particular instance shall not constitute a continuing waiver, or preclude subsequent enforcement thereof.

16. No employee, representative or agent of Dresser Atlas is empowered to alter any of the herein specified Terms and Conditions.

17. Dresser Industries, Inc. values highly the confidence and goodwill of its Customers and Suppliers. We offer our products only on their merit, and we expect our Customers to judge and purchase our products and services solely on the basis of quality, price, delivery and service. Likewise, Dresser buys only on merit, and we judge and purchase solely on the basis of quality, price, delivery and service. This Dresser corporate policy applies in all relationships with our Customers and Suppliers.

DresserAtlas

WIRELINE SERVICES
 PETROLEUM SERVICES DIVISION
 Dresser Industries, Inc.

RECOMMENDED* OPEN HOLE LOGGING PROGRAM

PRIMARY RESISTIVITY LOG:

1st Run - Induction Electrolog	\$859.00
2nd Run - Laterolog Gamma Ray	\$928.00

PRIMARY POROSITY LOG:

1st Run - BHC Acoustilog Caliper	\$600.00
2nd Run - BHC Acoustilog Caliper	\$860.00

SECONDARY POROSITY LOG:

1st Run - Compensated Densilog Caliper	\$550.00
2nd Run - Sidewall Neutron	\$790.00

ALTERNATE PROGRAM:

Minilog - Sidewall Core - Epilog Lithology Plot

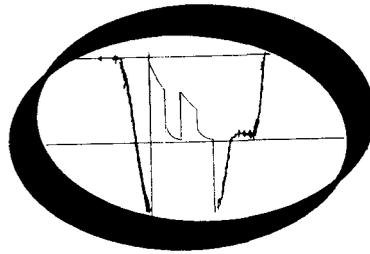
OTHER SERVICES AVAILABLE:**REMARKS:**

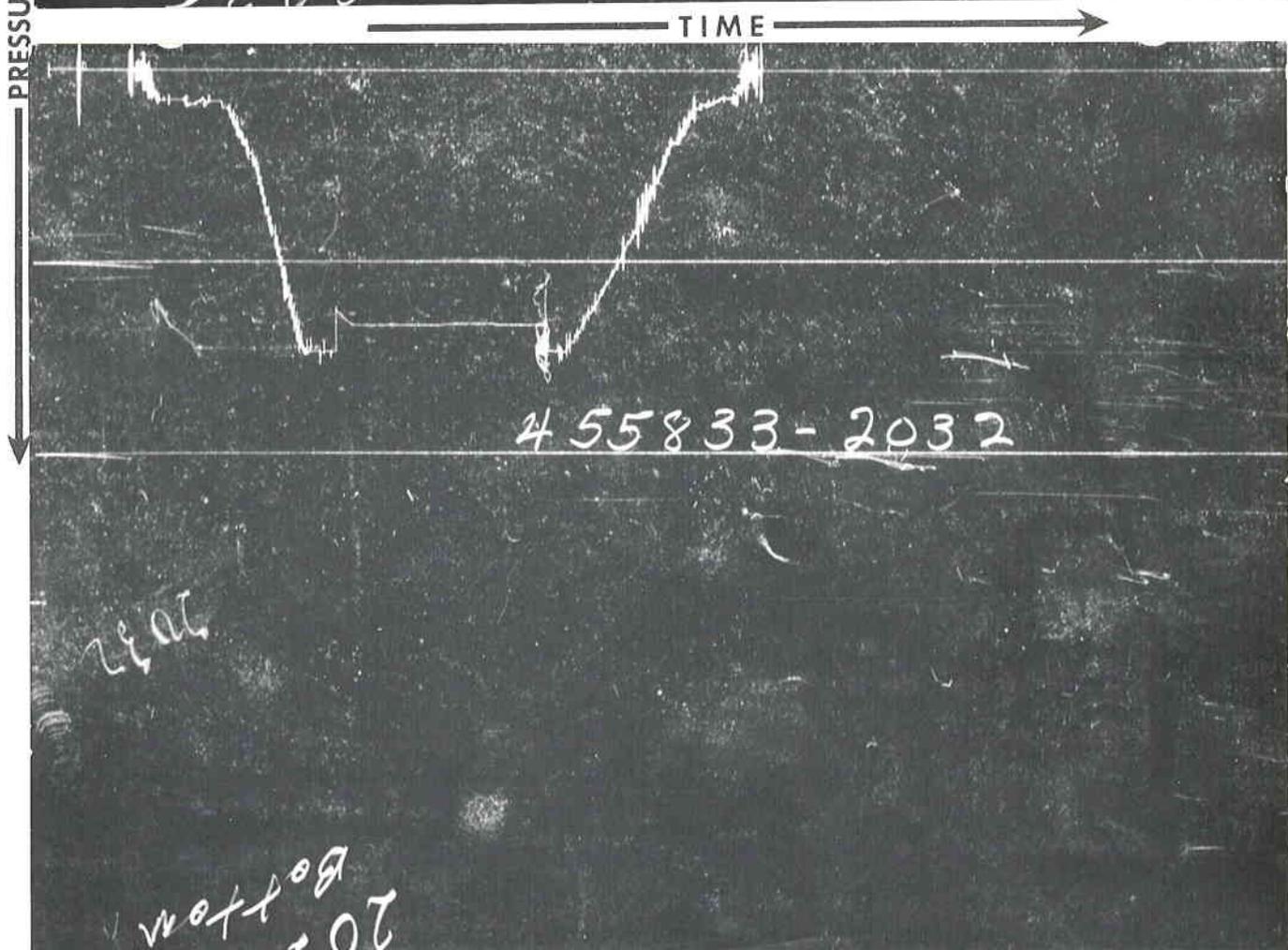
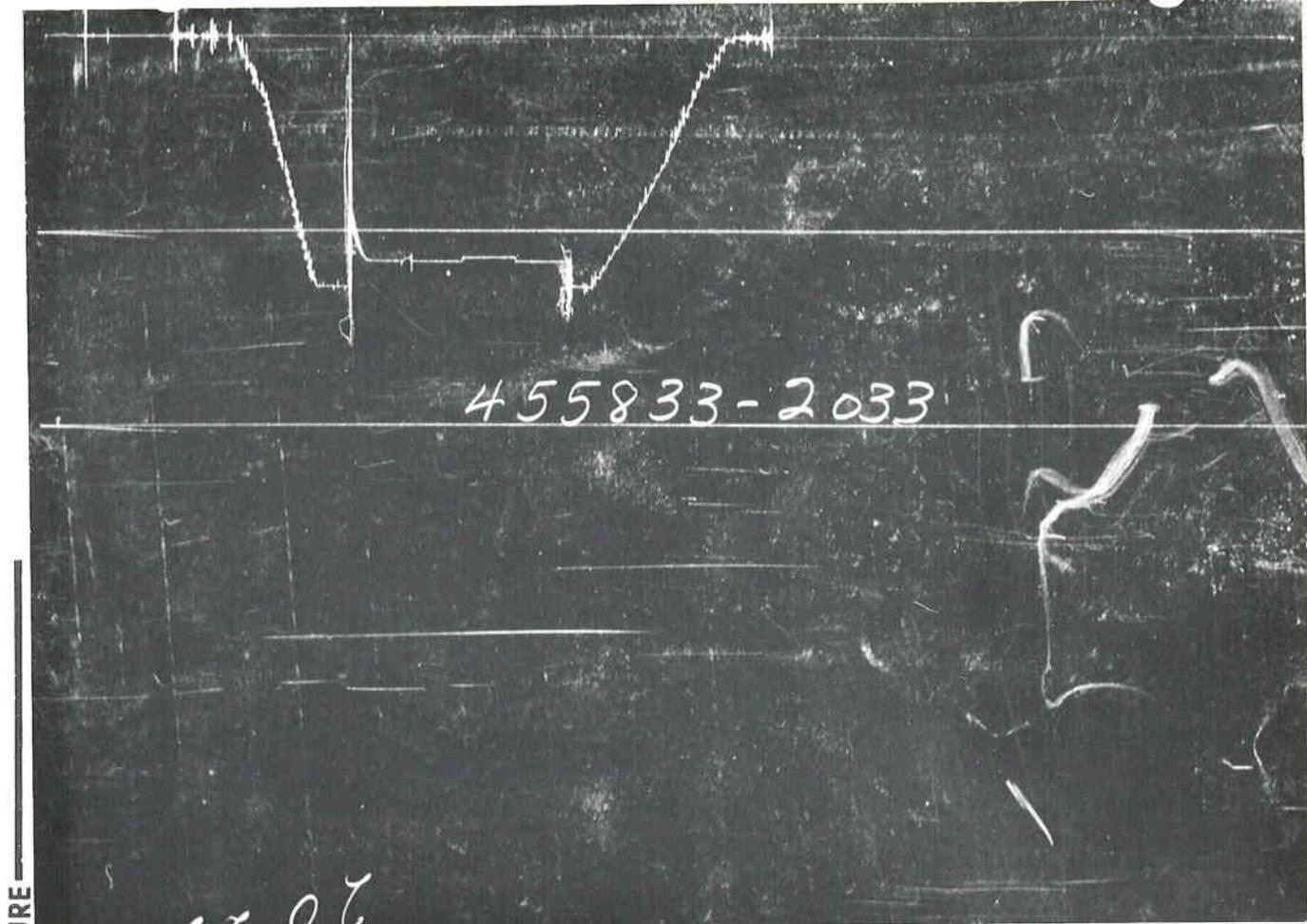
COMPANY Placid Oil Company WELL Proposed

***NOTE: This Recommended Logging Program is an extra service furnished by Dresser Atlas to its Customers free of charge, and it is based on information furnished to Dresser Atlas by the Customer. Therefore, Dresser Atlas does not guarantee any particular results from following this Recommended Logging Program, and in receiving this recommended program the Customer agrees to hold Dresser Atlas harmless from any claims for loss or damage allegedly resulting from the use of any information contained in this Recommended Logging Program.**

*SEE TERMS & CONDITIONS ON REVERSE SIDE OF PAGE 1

Formation Testing Service Report





Each Horizontal Line Equal to 1000 p.s.i.



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS
WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation _____ Depth _____ Sampled From _____
 Location _____ Field _____ County San Juan State Utah
 Date Sampled _____ Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

Sp. Gr. 1.010 @ 82 °F.

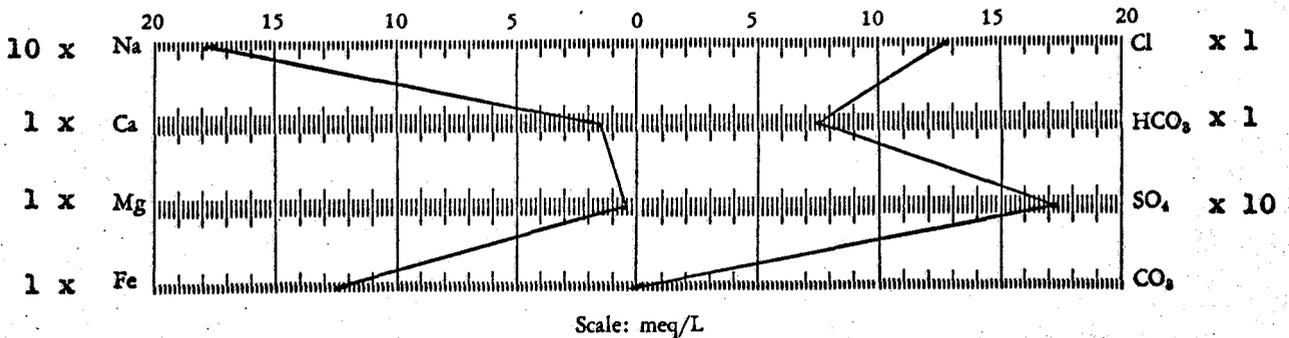
Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L
Sodium	<u>179.5</u>	<u>4,126</u>
Calcium	<u>1.5</u>	<u>30</u>
Magnesium	<u>0.5</u>	<u>6</u>
Iron	<u>12.4</u>	<u>345</u>
Barium	<u>0</u>	<u>0</u>

Constituents	meq/L	mg/L
Chloride	<u>12.7</u>	<u>450</u>
Bicarbonate	<u>7.5</u>	<u>457</u>
Sulfate	<u>172.3</u>	<u>8,280</u>
Carbonate	<u>0</u>	<u>0</u>
Hydroxide	<u>1.4</u>	<u>24</u>



All analyses except iron determination performed on a filtered sample.



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS
WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation _____ Depth _____ Sampled From _____
 Location _____ Field _____ County San Juan State Utah
 Date Sampled _____ Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

Sp. Gr. 1.010 @ 82 °F.

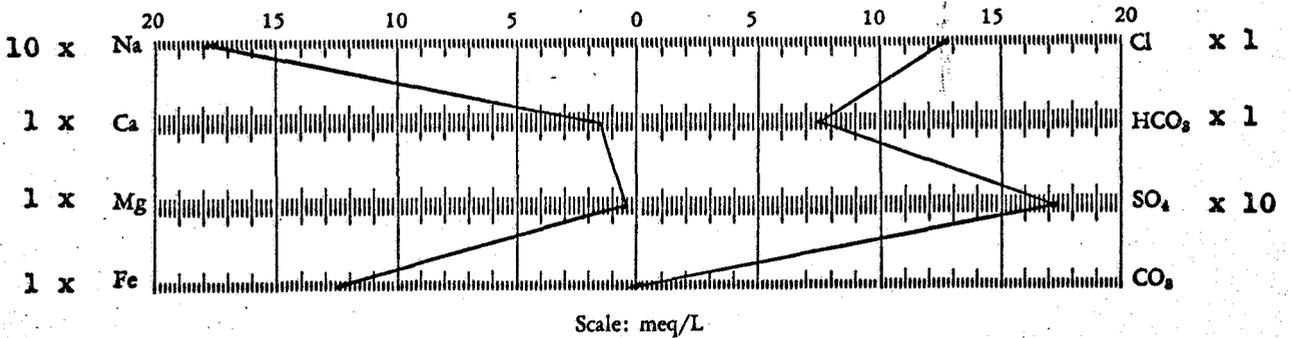
Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L
Sodium	<u>179.5</u>	<u>4,126</u>
Calcium	<u>1.5</u>	<u>30</u>
Magnesium	<u>0.5</u>	<u>6</u>
Iron	<u>12.4</u>	<u>345</u>
Barium	<u>0</u>	<u>0</u>

Constituents	meq/L	mg/L
Chloride	<u>12.7</u>	<u>450</u>
Bicarbonate	<u>7.5</u>	<u>457</u>
Sulfate	<u>172.3</u>	<u>8,280</u>
Carbonate	<u>0</u>	<u>0</u>
Hydroxide	<u>1.4</u>	<u>24</u>



All analyses except iron determination performed on a filtered sample.

TIGHT HOLE

FLUID SAMPLE DATA		Date 7-29-71	Ticket Number 455833
Sampler Pressure _____ P.S.I.G. at Surface		Kind of Job OPEN HOLE	Halliburton District FARMINGTON
Recovery: Cu. Ft. Gas _____		Tester MR. SMITH	Witness MR. PETERSON
cc. Oil _____		Drilling Contractor MESA DRILLERS DR	
cc. Water _____		EQUIPMENT & HOLE DATA	
cc. Mud _____		Formation Tested _____	
Tot. Liquid cc. _____		Elevation 6054' Ft.	
Gravity _____ ° API @ _____ °F.	Gas/Oil Ratio _____ cu. ft./bbl.	Net Productive Interval _____ Ft.	
		All Depths Measured From Rotary Kelly Bushing	
		Total Depth 2703' Ft.	
		Main Hole/Casing Size 8 3/4"	
		Drill Collar Length 375' I.D. 2 3/4"	
		Drill Pipe Length 1980' I.D. 3.826"	
		Packer Depth(s) 2386'-2388' Ft.	
		Depth Tester Valve 2367' Ft.	

TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion			1/8-1"	3/4"

Recovered	2367'	Feet of water	Meas. From Tester Valve
Recovered		Feet of	

Remarks **Opened tool for 34 minute first flow with a strong blow, fluid to surface @ 2136, flow line plugged, Closed valve head, unplugged flowline. Closed tool @ 22:00. Opened tool @ 22:30 to flow line 2" water. Closed tool for 30 minute second closed in pressure. Trip out @ 23:30**

TEMPERATURE	Gauge No. 2033		Gauge No. 2032		Gauge No.		TIME		
	Depth:	Ft.	Depth:	Ft.	Depth:	Ft.	Tool	A.M.	
Est. °F.	12	Hour Clock	12	Hour Clock	Blanked Off	Hour Clock	Opened	2126	P.M.
Actual 82 °F.	Pressures		Pressures		Pressures		Tool	2330	A.M.
	Field	Office	Field	Office	Field	Office	Closed		P.M.
Initial Hydrostatic	1271.1	1288	1457.8	1471			Reported		Computed
							Minutes		Minutes
First Period	Flow Initial	186	211	1246.7	1241				
	Flow Final	1138	1160	1325.8	1336			34	
	Closed in	1138	1160	1325.8	1336			30	
Second Period	Flow Initial	1112.4	1140	1325.8	1329				
	Flow Final	1112.4	1140	1325.8	1336			30	
	Closed in	1138.9	1166	1325.8	1336			30	
Third Period	Flow Initial								
	Flow Final								
	Closed in								
Final Hydrostatic	1271.1	1288	1457.8	1471					

Legal Location Sec. - Twp. - Rng. **U.S.A.D.U.**
 Lease Name **5-33S-21E**
 Well No. **2**
 Test No. **1**
 Field Area **WILDCAT**
 Tested Interval **2388'-2703'**
 County **SAN JUAN**
 State **UTAH**
 Lease Owner/Company Name **PLACID OIL COMPANY**

455833

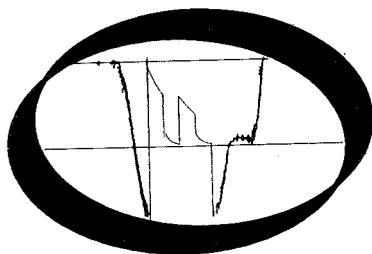
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	2 1/4"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	1980'	
Drill Collars	6"	2 3/4"	375'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	2367'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4'	2371'
Hydraulic Jar	5"	1"	6'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 1/2"	2"	4'	2386'
Distributor				
Packer Assembly	7 1/2"	2"	4'	2388'
Flush Joint Anchor	5 3/4"	2 1/4"	15'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6"	2 3/4"	296'	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5 3/4"		5'	2699'

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{or}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

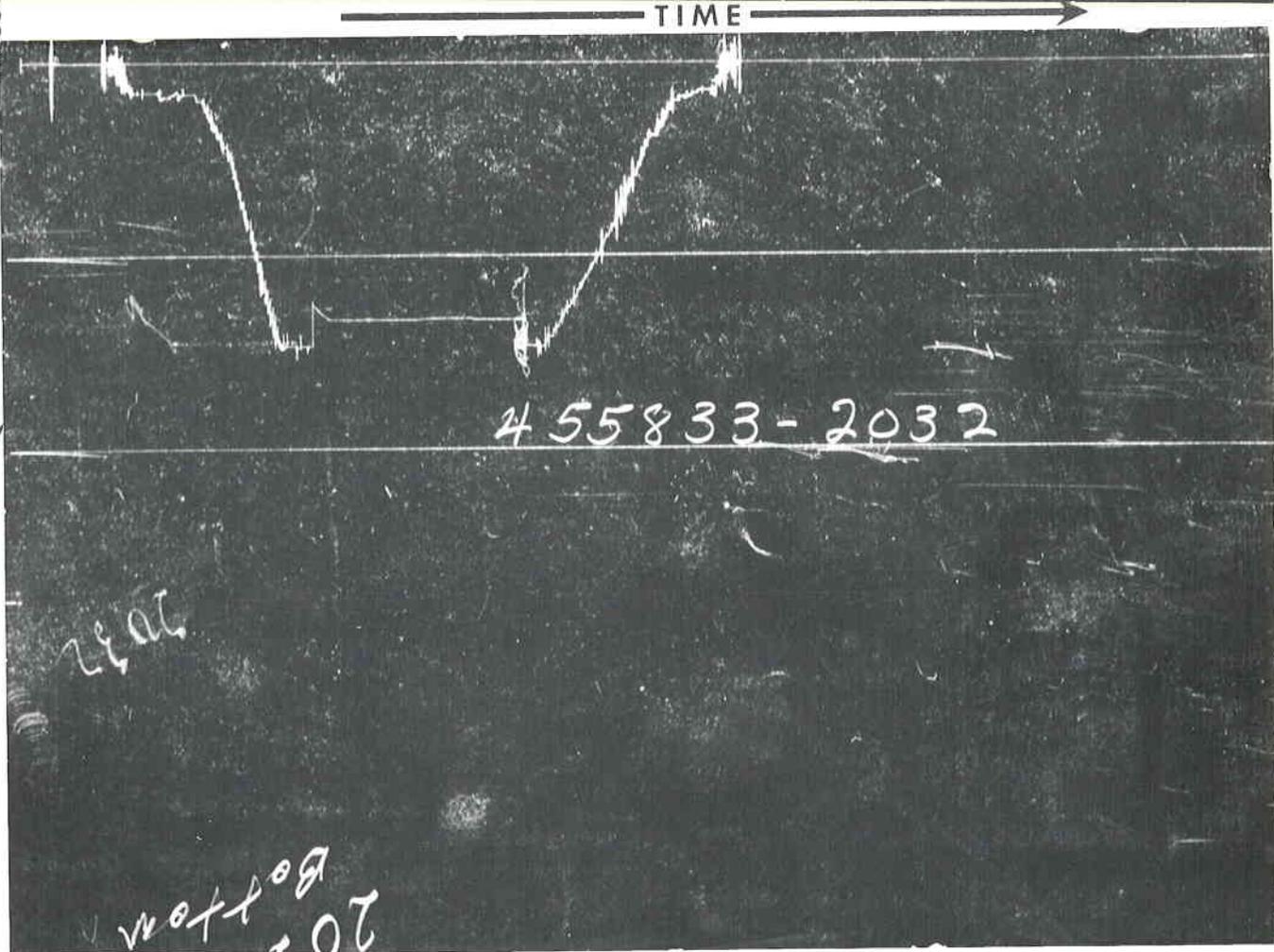
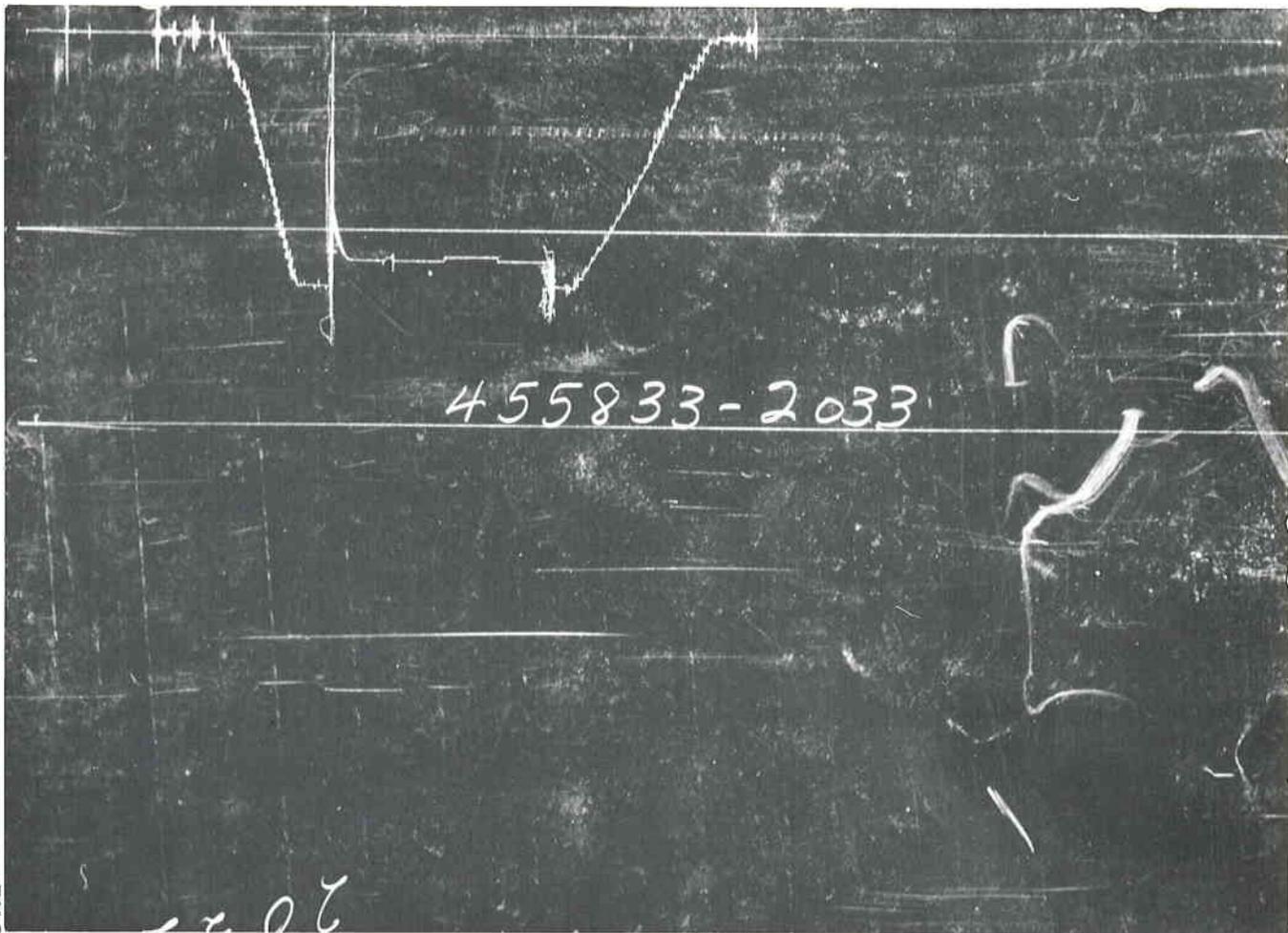
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Formation Testing Service Report



HALLIBURTON SERVICES

DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000 p.s.i.



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS
WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation _____ Depth _____ Sampled From _____
 Location _____ Field _____ County San Juan State Utah
 Date Sampled _____ Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

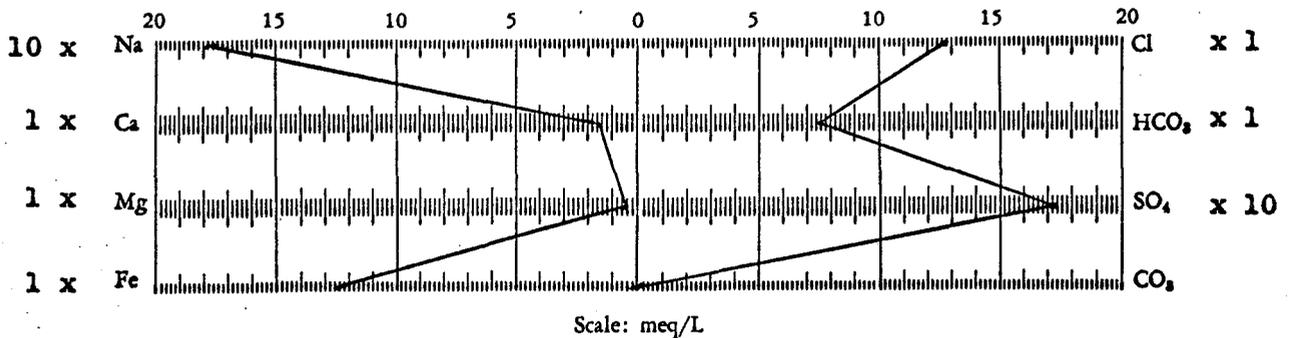
Sp. Gr. 1.010 @ 82 °F.

Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	<u>179.5</u>	<u>4,126</u>	Chloride	<u>12.7</u>	<u>450</u>
Calcium	<u>1.5</u>	<u>30</u>	Bicarbonate	<u>7.5</u>	<u>457</u>
Magnesium	<u>0.5</u>	<u>6</u>	Sulfate	<u>172.3</u>	<u>8,280</u>
Iron	<u>12.4</u>	<u>345</u>	Carbonate	<u>0</u>	<u>0</u>
Barium	<u>0</u>	<u>0</u>	Hydroxide	<u>1.4</u>	<u>24</u>



All analyses except iron determination performed on a filtered sample.

TIGHT HOLE

FLUID SAMPLE DATA	Date 7-29-71	Ticket Number 455833
Sampler Pressure _____ P.S.I.G. at Surface	Kind of Job OPEN HOLE	Halliburton District FARMINGTON
Recovery: Cu. Ft. Gas _____	Tester MR. SMITH	Witness MR. PETERSON
cc. Oil _____	Drilling Contractor MESA DRILLERS	DR
cc. Water _____	EQUIPMENT & HOLE DATA	
cc. Mud _____	Formation Tested _____	
Tot. Liquid cc. _____	Elevation 6054'	Ft.
Gravity _____ ° API @ _____ °F.	Net Productive Interval _____	Ft.
Gas/Oil Ratio _____ cu. ft./bbl.	All Depths Measured From Rotary Kelly Bushing	
	Total Depth 2703'	Ft.
	Main Hole/Casing Size 8 3/4"	
	Drill Collar Length 375'	I.D. 2 3/4"
	Drill Pipe Length 1980'	I.D. 3.826"
	Packer Depth(s) 2386'-2388'	Ft.
	Depth Tester Valve 2367'	Ft.

	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
Cushion				1/8-1"	3/4"

Recovered	2367'	Feet of	water	Mea. From Tester Valve
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		
Recovered		Feet of		

Remarks **Opened tool for 34 minute first flow with a strong blow, fluid to surface @ 2136, flow line plugged, Closed valve head, unplugged flowline. Closed tool @ 22:00. Opened tool @ 22:30 to flow line 2" water. Closed tool for 30 minute second closed in pressure. Trip out @ 23:30**

TEMPERATURE	Gauge No. 2033		Gauge No. 2032		Gauge No.		TIME	
	Depth:	2371 Ft.	Depth:	2699 Ft.	Depth:	Ft.	Tool	A.M.
Est. °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Opened	2126 P.M.
	Blanked Off No		Blanked Off Yes		Blanked Off		Tool	2330 A.M.
Actual 82 °F.	Pressures		Pressures		Pressures		Closed	P.M.
	Field	Office	Field	Office	Field	Office	Reported	Computed
Initial Hydrostatic	1271.1	1288	1457.8	1471			Minutes	Minutes
First Period	Flow Initial	186	211	1246.7	1241			
	Flow Final	1138	1160	1325.8	1336		34	
	Closed in	1138	1160	1325.8	1336		30	
Second Period	Flow Initial	1112.4	1140	1325.8	1329			
	Flow Final	1112.4	1140	1325.8	1336		30	
	Closed in	1138.9	1166	1325.8	1336		30	
Third Period	Flow Initial							
	Flow Final							
	Closed in							
Final Hydrostatic	1271.1	1288	1457.8	1471				

Legal Location Sec. - Twp. - Rng. **5-33S-21E**
 Lease Name **U.S.A.D.U.**
 Well No. **2**
 Test No. **1**
 Field Area **WILDCAT**
 Tested Interval **2388'-2703'**
 County **SAN JUAN**
 State **UTAH**
 Lease Owner/Company Name **PLACID OIL COMPANY**

455833

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	2 1/4"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	1980'	
Drill Collars	6"	2 3/4"	375'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	3/4"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	2367'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"		4'	2371'
Hydraulic Jar	5"	1"	6'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	7 1/2"	2"	4'	2386'
Distributor				
Packer Assembly	7 1/2"	2"	4'	2388'
Flush Joint Anchor	5 3/4"	2 1/4"	15'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6"	2 3/4"	296'	
Flush Joint Anchor				
Blanked-Off B.T. Running Case	5 3/4"		5'	2699'

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

Placid Oil Company
DU-2 U.S.A.
San Juan County, Utah

COMPLETION REPORT

LOCATION: (2041' FWL & 1717' FSL) of Section 5, Twp. 33S, Rge. 21E
San Juan County, Utah

FIELD: Wildcat (Canyonlands Prospect)

DATE BEGAN: Spudded 9 a.m. July 14, 1971

DATE COMPLETED: Plugged and abandoned August 9, 1971

CONTRACTOR: Mesa Drilling Company Rig #1

TOOL PUSHER: Mr. Max Bailey

WELL HISTORY:

7-13-71 Moved in, rigged up and drilled rat hole.
7-14-71 Spudded at 9 a.m. with 12 $\frac{1}{4}$ " bit. Ran 3 joints 13 3/8" casing set at 95' with 100 sacks cement. Plugged down at 6:30 p.m.
7-15-71 Drilled plug at 4 a.m. and drilled to 119'.
7-16-71 Drilled to 790'. Mud weight 8.9; Vis. 35. Totco at 749' - 3/4 $^{\circ}$.
7-17-71 Drilled to 1178'. 4" water flow at 1005'.
7-18-71 Drilled to 1417' and ran 45 joints 9 5/8" casing set at 1417' with 800 sacks, plug down at 6 a.m.
7-19-71 Drilled to 1533'.
7-20-71 Drilled to 1641'. Recemented with 300 sacks.
7-21-71 Waiting on cement.
7-22-71 Drilled to 1641' and recemented with 300 sacks.
7-23-71 Drilled to 1657'.
7-24-71 Drilled to 1938'.
7-25-71 Drilled to 2195'.
7-26-71 Drilled to 2376'.
7-27-71 Drilled to 2421'. Cut core #1 from 2376'-2378' recovered 2'. Core #2 from 2378'-2421' recovered 43'.
7-28-71 Drilled to 2663'. Mud weight 9.8; Vis. 41; W.L. 10; PH 11.5.
7-29-71 Drilled to 2715'. Totco at 2680' - 5 $^{\circ}$. Mud weight 9.9; Vis. 38. Ran Induction Electrolog and BHC Acoustilog. Ran DST from 2388' - 2703'.
7-30-71 Drilled to 2876'. Drilled salt. Mud weight 10; Vis. 40. Top of salt at 2846'.
7-31-71 Drilled to 3163'. Totco at 3130' - 4 3/4 $^{\circ}$. Mud weight 10.5; Vis. 39.

WELL HISTORY (Cont'd):

8-1-71	Drilled to 3492'. Totco at 3424' - 4 1/4". Mud weight 10.5; Vis. 38.
8-2-71	Drilled to 3775'. Totco at 3638' - 4 1/2". Mud weight 9.7; Vis. 37.
8-3-71	Drilled to 3940'. Mud weight 10.5; Vis. 38.
8-4-71	Drilled to 4060'. Totco at 3995' - 3". Mud weight 10.5; Vis. 37.
8-5-71	Drilled to 4175'. Mud weight 10.5; Vis. 36.
8-6-71	Drilled to 4300'. Mud weight 10.5; Vis. 45.
8-7-71	Drilled to 4387'. Lost circulation.
8-8-71	Set lynes packer at 2825'-2830'. Plugging.
8-9-71	Plugged and abandoned. Rig released at 2 p.m.

CASING PROGRAM: Set 97' of 13 3/8" casing set at 95' with 100 sacks regular, 3% cc, 10% calseal set at 1425' of 9 5/8" casing set at 1417' with 800 sacks of common, 2% cc.

TOTAL DEPTH: 4387'.

LOGGING PROGRAM: Ran Induction Electrolog from 2703'-1416'. BHC Acoustilog from 2703'-1416'.

CORING PROGRAM: Conventional core from 2376'-2378' recovered 2'. Core #2 from 2378'-2421' recovered 43'.

Core #1

Int. 2376'-78' recovered 2'.
2' Ls-dk gray, argill., occ. small vug. lined with calcite xls. sli. por. no perm. No show - sulphur odor.

Core #2

Int. 2378'-2421' recovered 43'.
2 1/2' Ls-dk gray, dense, sli. vug., sli. foss., argill., Sli. P & P, no stn. or fluor., sli. milky cut. Strong sulphur odor.
2 1/2' anhydrite gray-wh., xln, dense, massive
13' dolo.-gray, f. xln., sli. argill., sli. anhy. limey in part, tite, NSOF.
22' anhydrite-gray, xln., dense massive.
1/2' Ls.-gray, earthy, soft, sli. anhy., wet, so stn., sli. mottled fluor., sli. milky cut, strong sulphur odor.
1 1/2' Ls.-gray, f. xln. dense, argill., calc. healed hairline frags. NSOF.
1' No recovery.

DRILL STEM TEST: Tested interval 2388'-2703'. Packer set at 2386'-2388'. Opened tool for 34 minutes, closed 30 minutes, opened 30 minutes, closed 30 minutes. Opened with strong blow. Recovered 2367' of water.

	<u>TOP BOMB</u>	<u>BOTTOM BOMB</u>
Initial Flow	186	1246.7
Final Flow	1138	1325.8
Initial Flow, 2nd period	1112.4	1325.8
Final Flow, 2nd period	1112.4	1325.8
Initial Hydrastatic	1271.1	1457.8
Final Hydrastatic	1271.1	1457.8

SAMPLES: Samples caught at 10' intervals from surface to total depth. A complete set of samples has been delivered to Amstrat in Denver and a complete set is on file in Placid's Denver Office. A sample description is included on the Underwood Mud Logger's report.

MUD LOG: Mud logging equipment was in operation from surface to total depth. Hot wire gas detection and chromatograph were utilized. Drilling time plotted on 5' intervals is included on mud loggers report.

ELEVATION: Ground 6042'; D.F. 6052'; K.B. 6053'

FORMATION TOPS:

Cedar Mesa	210	(+5842)	Smpl.
Wolfcamp	970	(+5082)	Smpl.
Upper Hermosa	1390	(+4662)	Smpl.
Ismay	2370	(+3682)	E. Log
Desert Creek	2490	(+3562)	E. Log
Paradox Salt	2844	(+3208)	Smpl.
Lower Hermosa	3810	(+2242)	Smpl.
Molas	4170	(+1882)	Smpl.
Mississippian	4240	(+1812)	Smpl.

POTENTIAL: Dry and abandoned. No commercial shows of oil or gas were encountered.

PLUGGING DATA: Plugged August 9, 1971. Cement plugs at:

2790 - 2820 with 10 sacks
2320 - 2790 with 170 sacks
1350 - 1600 with 120 sacks
1078 - 1228 with 93 sacks
109 - 409 with 112 sacks - Plug fell
Plugged from surface to 253' with 95 sacks.

July 23, 1973

Mr. E. G. Mickel
Mountain Fuel Supply
P. O. Box 11368
Salt Lake City, Utah 84139

Re: Placid Oil Company
USA #DU-2
NE~~1~~SW~~1~~, Sec. 5-T33S-R21E
San Juan County, Utah

Dear Mr. Mickel:

Enclosed are copies of logs and other information pertinent to the above captioned well. The reason for not having run logs on the lower part of the hole is due to lost circulation in the Mississippian and caving in of the hole at approximately 3,000'.

Possibly this will be of some help to you.

Yours very truly,

PLACID OIL COMPANY

Harold E. Peterson

HEP:skf

Enclosures

May 2, 1974

Mr. Sherman A. Wengard
1040 Stanford Drive, N.E.
Albuquerque, NM 87106

Re: Placid Oil Company
USA #DU-2
Sec. 5-T33S-R21E
San Juan County, UT

Dear Mr. Wengard:

At your request, we are enclosing a copy of the geologists completion report, DST report, and a sample log on the above captioned well. The mechanical logs have been released and are available through the log service.

If we can be of any further help, please call.

Very truly yours,

PLACID OIL COMPANY

Harold E. Peterson
Geologist

HEP/cjc

Enclosures

**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-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U. S. A.

9. WELL NO.

DU-2

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 5, T 33S, R 21E

12. COUNTY OR PARISH

San Juan

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-BN PLUG-BACK DIFF. RESVR. Other: P & A

2. NAME OF OPERATOR
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface NE/SW (2041' FWL & 1717' FSL) Sec. 5, T 33S, R 21E

At top prod. interval reported below

At total depth

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUDDED July 14, 71 16. DATE T.D. REACHED Aug. 7, 1971 17. DATE COMPL. (Ready to prod.) _____ 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6042' G.L. 19. ELEV. CASINGHEAD 6042'

20. TOTAL DEPTH, MD & TVD 4387' 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS 0-4387' CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
N/A 25. WAS DIRECTIONAL SURVEY MADE 4215' - 3/4°

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electrolog & BHC Acoustilog 27. WAS WELL CORED Yes
2376' - 2421'

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	95'	17 1/2"	100 sacks; 3% cc	None
9 5/8"	36#	1417'	12 1/2"	800 sacks; 2% cc	None
				300 sacks; 3% cc	
				300 sacks; 3% cc	

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	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) _____ 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 James D. Murphree TITLE District Geologist DATE Aug. 10, 1971

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

INSTRUCTIONS

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

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

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

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

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

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

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

37. SUMMARY OF POROUS ZONES:

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Permian Cedar Mesa	210'	970'	Sandstone - lt. orange to wh., f-cgr., sub-rnd., fn., low pressure fresh water bearing.
Wolfcamp	1030'	1420'	Sandstone - wh. - orange, f-m gr. alternating with shale, red brn.-purple and nodular lime. Fresh wtr. bearing flowed 2"-6" stream of fresh water while drilling.
Pennsylvanian Ismay-Desert Cr.	2370	2700'	Anhydrite, dolomitic shale, and limestone. No apparent primary porosity. Some fractures. Core #1 - Rec. 2' limestone. No P & P. Core #2 - Rec. 2½' limestone, 2½' anhy., 13' dolo., 22' anhy., & 2' ls. No P & P. DST #1 - 2389-2703' - op. w/strong blow, strong through pre flow, op. 32 mins., fluid to surf. 10 min. SI 30 mins, op 30 mins, flowed 2" strm. of sulphur water. Rec. 2703' sulphur wtr. in DP FP 186-1138.9#, 4#-1112.4#

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Permian Cedar Mesa	210'	
Wolfcamp	970'	
Penn. U. Hermosa	1390'	
Ismay	2370'	
Desert Creek	2490'	
Salt	2844'	
L. Hermosa	3810'	
Molas	4170'	
Mississippian	4240'	

U.S. GOVERNMENT PRINTING OFFICE: 1966 O-346366

HP 1271.1#-1271.1#

937-497

871-233

Mississippian 4380'

Limestone - Cavernous, good P & P apparently salt water bearing.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-13713
2. NAME OF OPERATOR Placid Oil Company		6. IF INDIAN ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/SW (2041' FWL & 1717' FSL) Section 5-T33S-R21E		8. FARM OR LEASE NAME U.S.A.
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.; 6052' K.B.	9. WELL NO. DU-2
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T33S, R. OR BLK. AND SURVEY OF AREA Sec. 5-T33S-R21E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT	
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"/>	REPAIRING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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 notes pertinent to this work.)*

Plugged and abandoned August 9, 1971 with cement plugs as follows:

- 2790' - 2820' w/10 sacks on top of packer**
 - 2320' - 2790' w/170 sacks cover Ismay & Desert Creek porosity**
 - 1350' - 1600' w/120 sacks across top of Hermosa**
 - 1078' - 1228' w/93 sacks across Int. csg. shoe**
 - 109' - 409' w/112 sacks**
 - Surface - 253' with 95 sacks. Plug above fall resulting in a cement of this plug.**
- Hit cavern in Miss. @ 4387'. Lost mud and hole caved in at 2905'. Request to plug using Lynes type packer at about 2820' and plug as above.**

SLP 9 1971

18. I hereby certify that the foregoing is true and correct.
SIGNED James D. Murphy TITLE District Geologist DATE Sept. 8, 1971

(This space for Federal or State office use)

APPROVED BY
JERRY W. LONG
DISTRICT ENGINEER
NOV 1 1971

TITLE _____ DATE _____

*See Instructions on Reverse Side

Open

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(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 **Dry Hole**

2. NAME OF OPERATOR
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E

14. PERMIT NO. .

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6042' G.L.; 6052' K.B.

5. LEASE OR MINING LOCATION AND SERIAL NO.
U-134713

6. IF INDETERMINATE, LOTTERY OR OTHER METHOD OF ASSIGNMENT

7. UNIT OR PROJECT NAME

8. FARM OR RANCH NAME
U.S.

9. WELL IDENTIFICATION SYMBOL
DU-2

10. FIELD OR ZONE, OR OTHER IDENTIFICATION SYMBOL
Wildcat

11. SECTION, TOWNSHIP, OR RANGE
Sec. 33S, Rge. 21E

12. COUNTY OR STATE
San Juan

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <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 or recompletion Report and Log form.)

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

Plugged and abandoned August 9, 1971 with cement plugs as follows:

- 2790 - 2820 with 10 sacks
- 2320 - 2790 with 170 sacks
- 1350 - 1600 with 120 sacks
- 1078 - 1228 with 93 sacks
- 109 - 409 with 112 sacks
- Surface - 253' with 95 sacks. Plug above fell resulting in a recompletion of this plug.

RECEIVED

AUG 13 1971

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

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

SIGNED James D. Marples TITLE District Geologist

(This space for Federal or State office use)

APPROVED

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

NOV 1 1971
Jerry W. Long
JERRY W. LONG
DISTRICT ENGINEER

*See Instructions on Reverse Side

Open

Vertical text on the right side of the page, including "Form approved", "Budget Bureau No. 42-R1424", and "U.S. GEOLOGICAL SURVEY".



Preliminary Report

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS
 WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation Permian Wolfcamp Depth 1400' Sampled From Water Flow
 Location Sec. 5-T33S-R21E Field Wildcat County San Juan State Utah
San Juan Co., Utah
 Date Sampled 7/18/71 Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

Sp. Gr. 1.010 @ 82 °F.

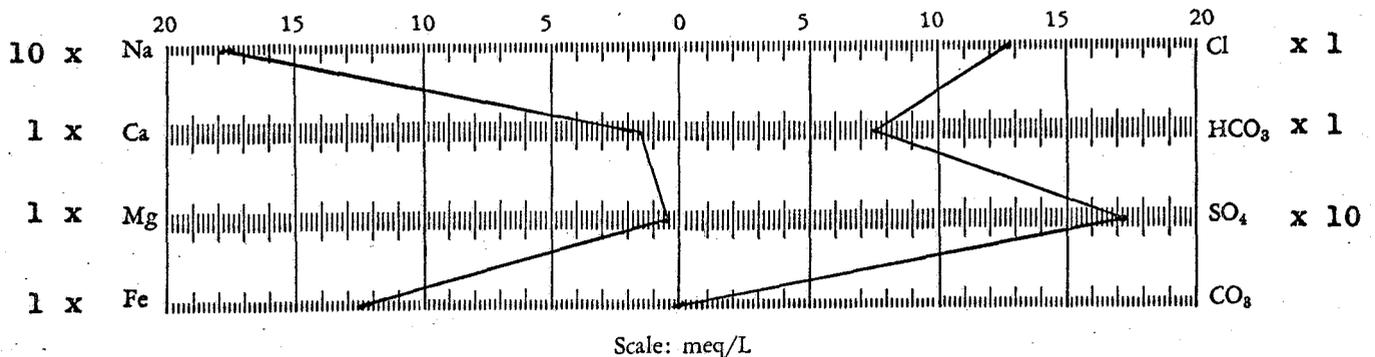
Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L
Sodium	179.5	4,126
Calcium	1.5	30
Magnesium	0.5	6
Iron	12.4	345
Barium	0	0

Constituents	meq/L	mg/L
Chloride	12.7	450
Bicarbonate	7.5	457
Sulfate	172.3	8,280
Carbonate	0	0
Hydroxide	1.4	24



All analyses except iron determination performed on a filtered sample.

Preliminary Report



CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS
 WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation Permian Wolfcamp Depth 1400' Sampled From Water Flow
 Location Sec. 5-T33S-R21E
San Juan Co., Utah Field Wildcat County San Juan State Utah
 Date Sampled 7/18/71 Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

Sp. Gr. 1.010 @ 82 °F.

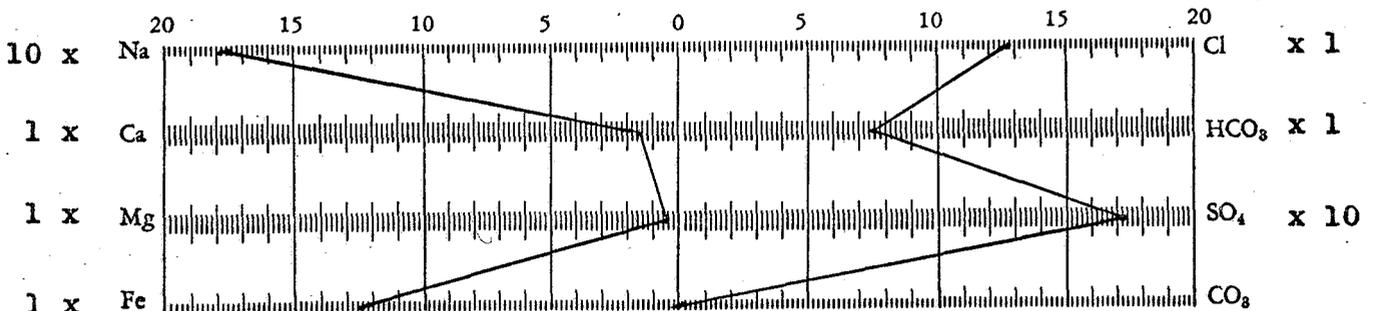
Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L
Sodium	179.5	4,126
Calcium	1.5	30
Magnesium	0.5	6
Iron	12.4	345
Barium	0	0

Constituents	meq/L	mg/L
Chloride	12.7	450
Bicarbonate	7.5	457
Sulfate	172.3	8,280
Carbonate	0	0
Hydroxide	1.4	24



Scale: meq/L

All analyses except iron determination performed on a filtered sample.

Preliminary Report



CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS
 WATER ANALYSIS

RP 4
 File WA 163

Company PLACID OIL COMPANY Well Name #DU-2 Sample No. 1
 Formation Permian Wolfcamp Depth 1400' Sampled From Water Flow
 Location Sec 5 T33S R21E Field Wildcat County San Juan State Utah
 Date Sampled 7-18-71 Date Analyzed 9-10-71 Engineer D. Cross

Total Dissolved Solids 13,656 mg/L calc.

Sp. Gr. 1.010 @ 82 °F.

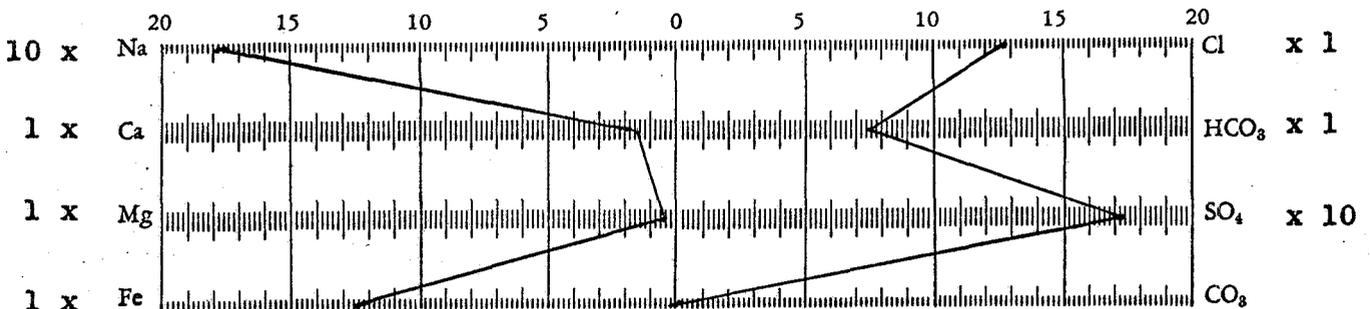
Resistivity 4.09 ohm-meters @ 82 °F. meas.

Hydrogen Sulfide absent

pH 8.4

Constituents	meq/L	mg/L
Sodium	<u>179.5</u>	<u>4,126</u>
Calcium	<u>1.5</u>	<u>30</u>
Magnesium	<u>0.5</u>	<u>6</u>
Iron	<u>12.4</u>	<u>345</u>
Barium	<u>0</u>	<u>0</u>

Constituents	meq/L	mg/L
Chloride	<u>12.7</u>	<u>450</u>
Bicarbonate	<u>7.5</u>	<u>457</u>
Sulfate	<u>172.3</u>	<u>8,280</u>
Carbonate	<u>0</u>	<u>0</u>
Hydroxide	<u>1.4</u>	<u>24</u>



Scale: meq/L

All analyses except iron determination performed on a filtered sample.

Denver, Colorado

December 28, 1971

MEMO TO: Mr. H. C. Drummond
Dallas Office

RE: Wellhead Used on the
USA-DC #1, Dolores County,
Colorado and the USA-DU #2,
San Juan County, Utah

Please find attached Field Transfers Nos. 45381 and 45382
transferring the subject wellhead from the DC #1 to the DU #2 and
from the DU #2 to stock at Big Red Tool Company, Farmington, New
Mexico.

505-325-5045

Very truly yours,

Jim Wages

JW/cw

Attachments

cc: Mr. R. L. Gray
Goodpina Office

C
O
P
Y

PLACID OIL COMPANY

INTER-COMPANY

CORRESPONDENCE

PLACE Dallas, Texas

DATE December 22, 1971

MEMORANDUM TO:

Mr. R. L. Gray
Goodpine, Louisiana

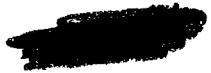
Re: USA - DC #1
Delores County, Colorado
D&A 7-9-71
AFE 3311

Attached is a copy of our investment records for the wellhead equipment still charged to the above well. Please advise when we may expect a material transfer removing this head into stock. If this equipment was not salvaged, please inform us in order that we might write it off.


H. C. Drummond

HCD/JEJ/KY
Attachment

JULY 1971		COMPANY 06				3311		2-1		324.10		
7	10	258	10	4	State	Field	LEASE	A	F	E	SUB	
REFERENCE							DESCRIPTION		JOINT ACCOUNT		AMOUNT	
							DESCRIPTION		JOINT ACCOUNT		AMOUNT	
							1 10 IN X 9.625 IN CSG HEAD					
							OIL CENTER TOOL, HOUSTON					
							Inc. FAR 5299 -- 6-24-71					
							1 -Part no 13- C-22 CSG Head 10" X 900 0 5/8" 8RD				303.69	
							1 -Part no 52- 2 X 6" XX nipple				5.71	
							1 -Part no 25- 2" Bull Plug				6.49	
							Min Freight				8.21	
											<u>324.10</u>	

Ken Britton - 
 Big Red Tool Co;
 Farmington, N.M.
 325 - 5045
 1 - 505

GEOLOGICAL FIELD SHEET

6042' GL

STATE & COUNTY

San Juan, Utah

ELEV. 6052' KB

OPERATOR

Placid Oil Company

FEE OWNER

USA DU-2

LOCATION NE SW (1664' FSL & 2424' FWL)

SURVEY SEC.-TWP.-RNG. 5-T33S-R21E

CASING RECORD

COMPLETION RECORD

SAMPLE

TOPS

SCHLUMBERGER

MISCELLANEOUS INFORMATION

- 7/14/71: Drilling rat hole.
- 7/15/71: Spudded 9 a.m. on 7/14/71. Drilled 12 1/2" hole to 111', reamed out to 17 1/2" to 95', ran 3 jts 13-3/8" casing 48# 97' set at 95' with 100 sx of reg. cement 3% CaCl, 10% calseal, plugged out 6:30 p.m. 7/14/71 (cement circ). Drilled the plug at 4 a.m. on 7/15/71. This morning they are 119', lime & shale, drilling out water. Bit #1 12 1/2" Hughes ODG made 119' in 7 1/4 hrs. They had a Totco (Dev.) 1/2 deg at 90'.
- 7/16/71: TD 790', sand, made 671'. Totco at 180 deg BE, 1/2 deg at 390', 1/4 deg at 610', 3/4 deg at 749'. MW 8.9, Vis 35, 2% lose circ material. Bit #1 12 1/2" ODG in at 0 and had made 790' in 28 hrs. They lost approx. 400 bbls. of fluid, started losing mud at 473' and lost the returns completely at 610'. Now have full returns.
- 7/17/71: TD 1178', sand & shale. Water Flow 1005', flowing 4" stream.

FORM 511-SCOUT REPORT

THE M. L. BATH COMPANIES
SHELDON-CHICKENWALKER-CHESTER
BATH-GRAM
REG. NO. 112,331 U. S. PAT. OFF.

WELL LOG

BOTTOM	FORMATION	BOTTOM	FORMATION	BOTTOM	FORMATION
7/18/71:	TD 1417' in lime.	Totco: 1-3/4 deg at 1250', 1/2 deg. at 1381'.	Ran 45 jts of 9-5/8" casing 1425' set at 1417' w/800 sx. of common cement 2% CC.	PD at 6 a.m.	7/18/71. Well flowed a 6" stream of water until casing was cemented.
7/19/71:	TD 1533',	lime and shale.			
7/20/71:	TD 1641',	lime and shale, made 108'.	Drilling w/wtr. Bit #3 (8-3/4" WD 7) in at 1417'; made 224' in 12 hrs. They ran Halliburton Easy Tool Cement Retainer and recemented w/300 sx. of Class A cement w/3% CaCl ₂ , 12 1/2# GIL per sx., 2% gel.	Job completed at 12 midnight.	WOC.
7/21/71:					
7/22/71:	TD 1641'.	Ran Halliburton Easy Tool Cement Retainer and recemented w/300 sx. of Class A cement w/3% CaCl ₂ , 12 1/2# Gilsonite per sx., 2% gel.	PD 2 p.m. 7/21/71.		WOC.
7/23/71:	TD 1657';	drilling lime and shale; made 16' drilling w/wtr. Bit #4 (ODV), drilling 2 cement retainers, cement and 6' of formation. Bit #5 (J-3) in at 1646' has made 11' in 1/2 hr., 1 1/2 to 2" water flow.			
7/24/71:	TD 1938',	drilling lime.			
7/25/71:	TD 2195',	drilling lime.			
7/26/71:	TD 2376',	drilling lime. Waiting on core barrel to cut core #1.			
7/27/71:	TD 2421'.	MW 9.8, Vis 40, WL 11.4, FC 2/32, PH 10.8. Core #1 2376-78', rec. 2'. Core #2 2378-2421', rec. 43', 12-3/4 hrs. cored. Cut cored 2 hrs, waiting on core bbl., 1 hr. picking up core bbl., 1 hr. making mud, 1/4 hr. circ., 1 1/2 hr. robing core bbl., 1 hr. laying down core bbl., 4-3/4 hrs. tripping.			
7/28/71:	TD 2663',	shale and anhydrite, made 242'.	MW 9.8, Vis 41, FC 2/32, WL 10, PH 11.5. Bit #5 (J-33) went in at 1646', made 1017' in 7 1/2 hrs., 1/2 hr. laying down core bbls., 1 1/2 hrs. tripping, 2 1/2 hrs. reaming core hole, and 20 hrs. drilling.		
7/29/71:	TD 2715',	lime and shale, made 52'.	Totco: 5 deg at 2680'. MW 9.9, Vis 38, WL 16.2, FC 2/32, PH 15. Bit #5 (J-33) went in at 1646', made 1069' in 8 1/2 hrs., 6 1/2 hrs. drilling, 9-3/4 hrs. logging and 8 hrs. running DST. DST #1 2388-2703', fluid to surface in 10 mins., sulphur wtr.		
	DST Chart:				
	IHH 1271.1		IF 1112.4		
	IF 186		FF 1112.4		
	FF 1138.9		FFIP 1138.9		
	ISIP 1138.9		FHH 1271.1		
7/30/71:	TD 2876',	drilling salt. MW 10, Vis 40, WL 14. Top of Salt - 2846'.			
7/31/71:	TD 3163';	drilling salt, shale and anhydrite; made 287'.			

- 7/31/71: Totco; 4½ deg at 2954', 4-3/4 deg at 3080', 4-3/4
Cont. deg at 3130'. MW 10.5, Vis 39, WL 12, FC 2/32,
PH 9.5. Bit #6 made 276' in 15½ hrs. Bit #7 (ODV)
has made 31' in 5½ hrs.
- 8/1/71: TD 3492'; drilling shale, salt & lime streaks; made
329'. Totco: 4¼ deg at 3268', 4¼ deg at 3424'.
MW 10.5, Vis 38, WL 18, FC 2/32, PH 11. Bit #7
made 360' in 28-3/4 hrs.
- 8/2/71: TD 3775'; drilling salt & shale; made 283'. Totco:
4-3/4 deg at 3580', 4½ deg at 3638'. MW 9.7, Vis
37, WL 16.8, FC 2/32, PH 11. Bit #7 made 505' in
41½ hrs. Bit #8 (ODV) in at 3637', made 138' in
7-3/4 hrs.
- 8/3/71: TD 3940'; drilling shale, anhydrite & trace of
dolomite; made 165'. Totco: 4¼ deg at 3772'. MW
10.5, Vis 38, WL 20, FC 2/32, PH 11. Bit #8 made
303' in 32 hrs.
- 8/4/71: TD 4060'; drilling lime and shale; made 120'.
Totco: 3 deg at 3995'. MW 10.5, Vis 37, WL 20,
FC 2/32, PH 11. Bit #8 made 360' in 41-3/4 hrs.
Bit #9 (J-44) in at 3997'; made 63' in 10¼ hrs.
- 8/5/71: TD 4175'; drilling lime; made 115'. MW 10.5, Vis
36, WL 26, FC 2/32, PH 11. Bit #9 (J-44) in at
3937', made 178' in 34-3/4 hrs.
- 8/6/71: TD 4300'; drilling lime; made 125'. Totco: 3/4
deg at 4215'. MW 10.5, Vis 45, WL 6.8, FC 2/32,
PH 9.5. Bit #9 (J-44) made 303' in 57 hrs.
- 8/7/71: TD 4387'; drilling lime; made 87'. MW 10, Vis 45.
Bit #9 made 390' in 67½ hrs. Test tool went in
hole 2995', could not get any deeper. Pulling out
of hole they lost complete circulation at 4387'.
- 8/8/71: Went in hole to set packer (Lynes) at 2825-2830',
now getting in hole to put cement plugs. Have 7"
wtr. flow, waiting on packer and trying to clear wtr
flow to plug well.

San Juan, Utah
Placid Oil Company
USA DU-2 NE SW Sec. 5-T33S-R21E

8/9/71: Packer set at 2875-30', put cement plug 2790-2820' from 2320-2790', 1250-2600' when put in last plug they lost circulation. They kept pumping in fluid and well started flowing again. They were waiting on more cement.

8/10/71: Plugs:

2790 - 2820 10 sx.

2320 - 2790 170 sx.

1350 - 1600 120 sx.

1078 - 1228 93 sx.

109 - 409 112 sx.

Plug fell. The cemented from surface down to 253' with 95 sx.

Set dry hole marker. Rig released 2 p.m. 8/9/71.



United States Department of the Interior

IN REPLY REFER TO

U-13713

BUREAU OF LAND MANAGEMENT
Monticello, Utah 84535
September 1, 1971

Placid Oil Company
2008 United Bank Center
Denver Colorado 80202

Attn: Don Smith

Dear Sir:

On July 13, 1971 we wrote a letter to you requesting that the road constructed to provide access to the drill side in North Cottonwood Wash (T. 33 S., R. 21 E., Sec. 5) be brought up to standards when drilling is completed.

The drill rig and equipment has been removed, and no work has been done on the road nor has this office been contacted concerning the problem.

We would like to meet with a representative of your office to examine the road and the drill site, and to reach an agreement on the work to be done.

Sincerely yours,

Thomas A. Moore
Acting District Manager

(801) 587-2247

cc: US Geological Survey, Durango, Colo.

*Meeting
next Wednesday
Sept 29*

*Talked to Mr. Sweeney
Sept. 4 -
Could not make apt. until
A & P for call back until
that time*

*9-30-71
Met with Les Sweeney B.L.M.
& J.D. Wilson -
Sweeney said forget
culverts & ditching -
told J.D. Wilson
to proceed -
DWB*





United States Department of the Interior

BUREAU OF LAND MANAGEMENT
P.O. Box 1327
Monticello, Utah

July 13, 1971

Placid Oil Company
2008 United Bank Center
Denver Colorado 80202

Attn: Don Smith

Dear Sir:

An inspection of the road leading to the drill site in North Cotton Wood Wash was made on 7-8-71. We found that the work done so far does not meet the specs. set up by the Bureau of Land Management.

There have been no provisions for drainage such as ditches or water bars. There is a berm left which will only serve to keep the water on the road. Fills have been made in the washes which will wash out leaving the road impassable after heavy storms.

Our engineer has made an estimate of the work needed to bring the road up to standards set by the Bureau of Land Management, which is enclosed.

We would prefer the necessary work to be completed after the drilling has been completed. We would like to meet with a representative of your office to examine the road to reach an agreement on the work to be done.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Thomas A. Moore".

Thomas A. Moore
Acting District Manager

Enclosure



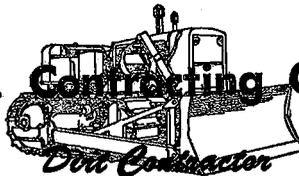
North Cottonwood Road

7-7-71

				Total
Ditches	18,300 lin. ft.	@ .30	lin ft.	\$5,490.00
Water Bars	33/ea.	@ \$20.00/ea.	=	\$660.00
Culverts	44ft.	of 36"	Culvert @\$18.00per ft.=	\$792.00
	44ft.	of 24"	Culvert @\$11.00per ft.=	\$484.00
	22ft.	of 18"	Culvert @\$8.00 per ft.=	\$176.00
Motor Patrol	13 hrs.	@\$17.00	1 hr. =	\$221.00
Cat (D-7)	8½ hrs.	@ \$22.50	1 hr. =	\$191.25

These figures are based on our costs. R.A.D. \$8014.25

C. & W. Contracting Company



P. O. BOX ~~1236~~ 1236
MOAB, UTAH

E. E. "SHORTY" WILSON
PHONE 233-3081

J. D. WILSON
PHONE 233-7112

August 24, 1971

Placid Oil Co.
Attn: Don Smith
2008 United Bank Center
1700 Broadway
Denver, Colorado 80202

Dear Don:

This is the rest of the work done on your USA D-U #2. The repair of the road to move in cost more than anticipated but the road went all to pieces. The rest of these tickets are for repair of road after rains and building the reserve pit. If you have any questions, please call me.

Also, when you or one of your men can get free, I can meet you at any time to meet with the BLM to see what it will take to please them. I was in to the location the 17th and the road was still in good shape but we have been having quite a bit of rain since.

Yours truly,

C. & W. Contracting Co. Inc.

J. D. Wilson

by, J. D. Wilson, VP

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

SUBMIT IN TRIP
(Other instructions
verse 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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. D-13713</p>
<p>2. NAME OF OPERATOR Placid Oil Company</p>	<p>6. IF INDIAN ALLOTTEE OR TRIBE NAME _____</p>
<p>3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202</p>	<p>7. UNIT AGREEMENT NAME _____</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/SW (2041' FWL & 1717' PSL) Section 5-T33S-R21E</p>	<p>8. FARM OR LEASE NAME U.S.A.</p>
<p>14. PERMIT NO.</p>	<p>9. WELL NO. DU-2</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.; 6052' K.B.</p>	<p>10. FIELD AND POOL, OR WILDCAT Wildcat</p>
<p>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</p>	<p>11. SEC., T., R., M. OR BEK. AND SURVEY OR AREA Sec. 5-T33S-R21E</p>
<p>17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Plugged and abandoned August 9, 1971 with cement plugs as follows:</p>	<p>12. COUNTY OR PARISH San Juan</p>
<p>18. I hereby certify that the foregoing is true and correct</p>	<p>13. STATE Utah</p>

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT ON:

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) _____	

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

2790' - 2820' w/10 sacks on top of packer
2320' - 2790' w/170 sacks cover Ismay & Desert Creek porosity
1350' - 1600' w/120 sacks across top of Hermosa
1078' - 1228' w/93 sacks across Int. csg. shoe
109' - 409' w/112 sacks
Surface - 253' with 95 sacks. Plug above fall resulting in a recement of this plug.

Hit cavern in Miss. @ 4387'. Lost mud and hole caved in at 2995'
Request to plug using Lynes type packer at about 2820' and plug as above.

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

SIGNED James D. Murphree TITLE District Geologist DATE Sept. 8, 1971

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

September 7, 1971

United States Geological Survey
P. O. Box 1809
Durango, Colorado 81302

Re: Placid Oil Company
U.S.A. DU-2
Utah
San Juan County, Utah

Dear Sirs:

Enclosed for your files are the following for the above captioned:

 X Induction Electrolog

 X Acoustilog - Gamma Ray

Yours very truly,

PLACID OIL COMPANY

James D. Murphree

JDM:sf

Enclosures

September 7, 1971

Utah Oil and Gas Conservation Commission
1583 West North Temple
Salt Lake City, Utah 84111

Re: Placid Oil Company
U.S.A. - DU - 2
Utah
San Juan County, Utah

Dear Sirs:

Enclosed for your files are the following for the above captioned:

 X Induction Electrolog

 X Acoustilog - Gamma Ray

Yours very truly,

PLACID OIL COMPANY

James D. Murphree

JDM:sf
Enclosures



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Box 1809
Durango, Colorado 81301

September 3, 1971

Placid Oil Company
2008 United Bank Center
1700 Broadway
Denver, Colorado 80202

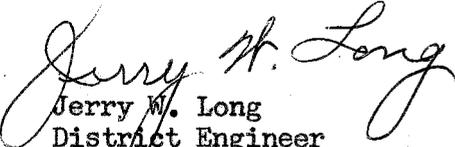
Gentlemen:

Our records indicate that you filed a Sundry Report dated August 10, 1971, for your No. DU-2 well, located in the SW $\frac{1}{4}$ sec. 5, T. 33 S., R. 21 E., San Juan County, Utah, on Federal lease U-13713. The report was submitted as a combined "Intent to Abandon" and "Subsequent Report of Abandonment." Regulations require the filing of separate reports. This office approved the report as "Notice of Intent to Abandon" only.

You are requested to file three copies of "Subsequent Report of Abandonment" for approval. We will return an approved copy of the "Subsequent Report of Abandonment" after the location has been cleaned and levelled. Please advise when the surface has been properly conditioned so that we may inspect the location.

You are also requested to file two copies of all electric logs.

Sincerely yours,


Jerry W. Long
District Engineer

Denver, Colorado

August 24, 1971

MEMO TO: Vicki Timms
Dallas Office

Please send us three copies of the Induction Electrolog and BHC
Acoustilog for DU #2 U.S.A. Section 5, Twp. 33S, Rge. 21E in San Juan
County, Utah.

Thank you.

Very truly yours,

James D. Murphree

JDM/fd

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL
(Other instructions on re-
verse 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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole		5. LEASE OR DESIGNATION AND SERIAL NO. U-13713
2. NAME OF OPERATOR Placid Oil Company		6. IF INDICATED, ALL OTHER OR TRADE NAME
3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E		8. FARM OR LEASE NAME U.S.A.
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.: 6052' K.B.	9. WELL IDENTIFICATION DU-2
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD, TRAP, POOL, OR WHOLE Wildcat
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 pertinent to this work.)*		11. SEC. T. R. OR BLK. Sec. 5, T. 33S, R. 21E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			

SUBSEQUENT REPORTS:

WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>
(Other)	

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

Will Plugged and abandoned August 9, 1971 with cement plugs as follows

- 2790 - 2820 with 10 sacks *on top of packer*
- 2320 - 2790 with 170 sacks *cover L-may & D. Creek porosity*
- 1350 - 1600 with 120 sacks *across top of Permian*
- 1078 - 1228 with 93 sacks *" sink c.g. shoe*
- 109 - 409 with 112 sacks
- Surface - 253' with 95 sacks. Plug above fell resulting in a cement of this plug.

*Hit cavern in Miss. @ 4387' Lost mud
& hole caved in @ 2995'
Request to plug using *Agnes type packer*
@ about 2820' and plug as above.*

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

SIGNED James D. Murphree TITLE District Geologist

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

APPROVED
Orally
AUG 7 1971
E. A. Schmidt
E. A. SCHMIDT
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Oper.

RECEIVED
 AUG 12 1971
 U.S. GEOLOGICAL SURVEY
 DURANGO, COLO.
 DISTRICT ENGINEER
 AUG 10, 1971

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U.S.A.

9. WELL NO.
DU-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 5, T 33S, R 21E

12. COUNTY OR PARISH 18. STATE
San Juan 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
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
6042' G.L.: 6052' K.B.

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

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.)*

Plugged and abandoned August 9, 1971 with cement plugs as follows:

2790 - 2820 with 10 sacks
 2320 - 2790 with 170 sacks
 1350 - 1600 with 120 sacks
 1078 - 1228 with 93 sacks
 109 - 409 with 112 sacks
 Surface - 253 with 95 sacks. Plug above fell resulting in a re cement of this plug.

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

SIGNED James D. Murphree TITLE District Geologist DATE August 12, 1971
 (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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

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 **P & A**

2. NAME OF OPERATOR
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface **NE/SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E**
 At top prod. interval reported below
 At total depth

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U.S.A.

9. WELL NO.
DU-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 5, T 33S, R 21E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

15. DATE SPUNDED **July 14, 71** 16. DATE T.D. REACHED **Aug. 7, 1971** 17. DATE COMPL. (Ready to prod.) _____
 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* **6042' G.L.** 19. ELEV. CASINGHEAD **6042'**

20. TOTAL DEPTH, MD & TVD **4387'** 21. PLUG, BACK T.D., MD & TVD _____
 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY **0-4387'** ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
N/A

25. WAS DIRECTIONAL SURVEY MADE
4215' - 3/4°

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Electrolog & BHC Acoustilog

27. WAS WELL CORED
Yes
2376' - 2421'

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5#	95'	17 1/2"	100 sacks; 3% cc	None
9 5/8"	36#	1417'	12 1/2"	800 sacks; 2% cc 300 sacks; 3% cc 300 sacks; 3% cc	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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) _____ 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

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 James D. Murphree TITLE **District Geologist** DATE **Aug. 12, 1971**

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

INSTRUCTIONS

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

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

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

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

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

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

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

37. SUMMARY OF POROUS ZONES:

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Permian Cedar Mesa	210'	970'	Sandstone - lt. orange to wh., f-cgr., sub. rnd., fn., low pressure fresh water bearing.
Wolfcamp	1030'	1420'	Sandstone - wh. - orange, f-m gr. alternating with shale, red brn.-purple and nodular lime. Fresh wtr. bearing flowed 2"-6" stream of fresh water while drilling.
Pennsylvanian Ismay-Desert Cr.	2370'	2700'	Anhydrite, dolomitic shale, and limestone. No apparent primary porosity. Some fractures. Core #1 - Rec. 2' limestone. No P & P. Core #2 - Rec. 2½' limestone, 2½ anhy., 13' dolo., 22' anhy., & 2' ls. No P & P. DST #1 - 2389-2703' - op. w/strong blow, strong through pre flow, op. 32 mins., fluid to surf. 10 min. SI 30 mins., op 30 mins., flowed 2" strm. of sulphur water. Rec. 2703' sulphur wtr. in DP FP 186 - 1138.9#, 4# - 1112.4# SIP 1138.9# - 1138.9# HP 1271.1# - 1271.1#
Mississippian	4380'		Limestone - Cavernous, good P & P apparently salt water bearing

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Permian Cedar Mesa	210'	
Wolfcamp	970'	
Penn. U. Hermosa	1390'	
Ismay	2370'	
Desert Creek	2490'	
Salt	2844'	
L. Hermosa	3810'	
Molas	4170'	
Mississippian	4240'	

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

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.S.A.

9. WELL NO.

DU-2

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 5, T 33S, R 21E

12. COUNTY OR PARISH 18. STATE

San Juan

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
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
6042' G.L.; 6052' K.B.

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 COMPLETE
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.)*

Plugged and abandoned August 9, 1971 with cement plugs as follows:

- 2790 - 2820 with 10 sacks
- 2320 - 2790 with 170 sacks
- 1350 - 1600 with 120 sacks
- 1078 - 1228 with 93 sacks
- 109 - 409 with 112 sacks
- Surface - 253' with 95 sacks. Plug above fell resulting in a recement of this plug.

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

SIGNED

James D. Murphree

TITLE

District Geologist

DATE **Aug. 11, 1971**

(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 TRIPLICATE*
(Other instructions on re-
verse 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.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole</p> <p>2. NAME OF OPERATOR Placid Oil Company</p> <p>3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-13713</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----</p> <p>7. UNIT AGREEMENT NAME -----</p> <p>8. FARM OR LEASE NAME U.S.A.</p> <p>9. WELL NO. DU-2</p> <p>10. FIELD AND-POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T 33S, R 21E</p> <p>12. COUNTY OR PARISH 13. STATE San Juan Utah</p>	
<p>14. PERMIT NO.</p>		<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.: 6052' K.B.</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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" 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.)*

Will ~~Plugged~~ and abandoned August 9, 1971 with cement plugs as follows:

- 2790 - 2820 with 10 sacks
- 2320 - 2790 with 170 sacks
- 1350 - 1600 with 120 sacks
- 1078 - 1228 with 93 sacks
- 109 - 409 with 112 sacks
- Surface - 253' with 95 sacks. Plug above fell resulting in a recement of this plug.

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

SIGNED James D. Murphree TITLE District Geologist DATE Aug. 10, 1971

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-13713
2. NAME OF OPERATOR Placid Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface N3/4SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E		8. FARM OR LEASE NAME U. S. A.
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.; 6052' K.B.	9. WELL NO. DU-2
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat
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. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 5, T 33S, R 21E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

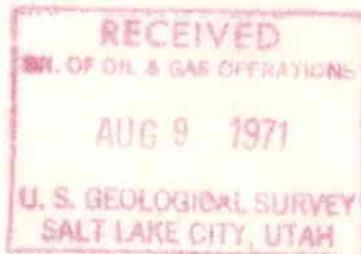
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

Casing Report & DST
(NOTE: Report results of multiple completion on Well Completion or Recombination 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.)*

- Spudded 9 a.m. - July 14, 1971.
- Ran 3 jts. 13 3/8", 48# casing. Set at 95' with 100 sacks regular, 3% cc, 10% Calseal. Plug down at 6:30 p.m. July 14, 1971.
- Ran 45 jts. 9 5/8", 36#, J-55 casing - 1425' set at 1417' with 800 sacks common cement. 2% cc plug down at 6 a.m. July 18, 1971.
- July 20, 1971 recemented 9 5/8" casing with 300 sacks Class A cement, 3% cc, 12 1/2# GIL per sack, 2% gel. Job completed at 12 midnight.
- July 21, 1971 recemented 9 5/8" casing with 300 sacks Class A cement, 3% cc, 12 1/2# GIL per sack, 2% gel. Plug down at 2 p.m.
- Ran DST #1 2388'-2703' fluid to surface in 10 minutes, sulfur water
Drill Stem Chart: DST ran on July 29, 1971.

IHH	1271.1
IF	186
FF	1138.9
ISIP	1138.9
IF	1112.4
FF	1112.4
FFIP	1138.9
FHH	1271.1



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

SIGNED

Harold E. Peterson
Harold E. Peterson

TITLE

Geologist

DATE **August 6, 1971**

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
AUG 10 1971

*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

Oper.

FORM OGC-8-X

FILE IN QUADRUPLICATE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number U.S.A. No. DU-2
Operator Placid Oil Company Address 1700 Broadway Phone 892-6191
2008 United Bank Center
Contractor Mesa Drilling Company Address _____ Phone _____
Location NE ½ SW ½ Sec. 5 T. 33 R. 21 E San Juan County, Utah
S N

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 1030'	1420'	2" - 6" flow	Fresh (550 PPM chlorides)
2. 2389'	2703'	2" flow	Brackish (9,000 PPM cl.) sulphur wtr.

- NOTE: A water flow was first noted while drilling in the lower Permian @ 1030'. Flow continued with a gradual increase until the flow reached 6" @ 1200', then stabilized.
 - Casing was set @ the top of the Pennsylvanian carbonates @ 1417'. Drilling was resumed and a 3-4" water flow began when a depth of 1570' was reached. It was assumed that the
 - water came from behind the pipe and the pipe was recemented. When drilling was resumed,
- (Continue on reverse side if necessary)

<u>Formation Tops:</u>		<u>Pennsylvanian</u>	
<u>Permian</u>		Upper Hermosa	1390 (+4662) Smpl.
Cedar Mesa	210 (+5842) Smpl.	Ismay	2370 (+3682) E. Log
Wolfcamp	970 (+5082) Smpl.	Desert Creek	2490 (+3562) E. Log
		Paradox Salt	2844 (+3208) Smpl.
		Lower Hermosa	3810 (+2242) Smpl.
		Molas	4170 (+1882) Smpl.
		Mississippian	4240 (+1812) Smpl.

Remarks:

- NOTE:
- Upon diminishing supply forms, please inform this office.
 - 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).
 - If a water analysis has been made of the above reported zone, please forward a copy along with this form.

we had a water flow, so the pipe was again recemented. Again we were unable to shut off the water. A 2½" flow @ 1661' increased to a 3-4" flow by the time we reached 1938'. We are unable to determine the exact zones which are contributing water, but we believe the flow is the cumulative effect of a number of thin zones. We were unable to conclusively determine if the water made after casing was set was coming from behind the pipe or whether it was coming from something below the pipe. The log or samples did not indicate any zones of porosity below the pipe, but water may have been coming from fractures.

RULE C-20

REPORTING OF FRESH 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 this office 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.

If no fresh water sands are encountered, it is requested that a negative report to that effect be filed.

File in DU-2 well file

M. N.

CONTRACT AGREEMENT

THIS AGREEMENT is made this 12th day of July 19 71, by and between Placid Oil Company, 2500 First National Bank Building, Dallas, Texas, hereinafter called "Placid", and Mesa Drillers, P.O. Box 108, Lubbock, Texas 79408 hereinafter called "Contractor", in consideration of the mutual promises hereinafter made and the mutual obligations herein undertaken.

1. This agreement is made subject and pursuant to a Master Drilling Contract between Placid and Contractor dated the 7th day of June 19 71, all the terms and conditions of which are incorporated herein and made a part hereof, the same as though set out herein at length.

2. Contractor agrees to drill for Placid a well for the production of oil or gas as follows:

Well Name and Number U. S. A. Well No. DU-2

Well Location and Description 2,041 feet from the west line and 1,717 feet from the south line of Section 5, Township 33 South, Range 21 East, Wildcat Field, San Juan County, Utah.

3. Drilling operations will commence on or before immediately. The well will be drilled to a maximum depth of 5,000 feet. Deviation from vertical shall not exceed 4 degrees from - 0 - feet to T. D. feet, and x x x degrees from x x x feet to x x x feet.

4. A mud weight of 12.5 pounds per gallon will be considered to constitute existence of abnormal pressure as referred to in Paragraph 15a of the Master Drilling Contract. Further, if it becomes necessary to suddenly raise the mud weight more than one-half (1/2) pound per gallon above the weight currently being used, and in the event that it is necessary to discontinue drilling operations in order to do so, this will also constitute abnormal pressure as referred to in Paragraph 152 of the Master Drilling Contract, and drilling operations will proceed on day work basis after a minimum time of four (4) hours (in each instance has elapsed, until the mud system has stabilized at a mud weight less than 12.5 pounds per gallon.

5. The following casing will be set for Placid by Contractor as indicated below:

	Approx. Size	Approx. Footage	Cement Setting Time	At the Expense of
Conductor	13-3/8"	100'		Placid
Surface	9-5/8"	1,500'		Placid
Protection				
Production	5-1/2"	5,000'		Placid
Liner				

6. Contractor will furnish one string of drill pipe, drill collars, kelly, and kelly saver sub. In the event a smaller string of drill pipe and drill collars is required, Placid agrees to pay transportation and rental on the smaller string of drill pipe, drill collars, kelly, and kelly saver sub, plus any equipment rentals occasioned by the use of the smaller string. During the time the smaller string is in service, Contractor shall be paid applicable day rates without drill pipe.

7. Unless specified elsewhere in this Contract Agreement, Contractor will furnish 12" Series 900 and 10" Series 900 or Series 1500 Blowout preventors, whichever is applicable, with necessary spools, adapters and acceptable choke manifold, all ram changes for 10" blowout preventors, inside blowout preventors for all drill pipe furnished by Contractor, and blowout preventor testers and all test plugs. If Contractor elects to drive conductor instead of drilling and cementing same, all required driving tools shall be furnished by Contractor at Contractor's expense.

8. Contractor shall be paid daywork rates (\$ xxx) Dollars per lineal foot to Contract Footage Depth of xxx feet and xxx to xxx. Day rates will be as follows:

Depth		Per 24 Hour Day		Below Depth of 6,000 feet
From	To	With Drill Pipe	Without Drill Pipe	
- 0 -	6,000'	\$1,300	\$1,225	*\$1,375
xxx	xxx	xxx	xxx	xxx
xxx	xxx	xxx	xxx	xxx
xxx	xxx	xxx	xxx	xxx

Standby rates per 24 hour day:
With crews \$1,150

Without crews xxx

The depth at which work is being performed will govern the day rate to apply. Drill pipe will be considered in use while being picked up or laid down or in actual use.

9. Contractor agrees to furnish and use modern drilling equipment of suitable design and size.

10. The following services and equipment will be furnished by and at the expense of the party indicated below:

	At Expense of	
	Owner	Contractor
	(Indicate by "X" Mark)	
A. Rig moving costs	<u>See Special Provision</u>	
B. Rig matting		<u>X</u>
C. Cellar and necessary slush pit	<u>X</u>	
D. Fuel		<u>X</u>
E. Fuel lines		<u>X</u>
F. Water	<u>X</u>	
G. Mud pits (including reserve pits)		<u>X</u>
H. Totco straight hole testing device		<u>X</u>

*Rate without drill shall be reduced to \$1,300 per day.

I. Rumba Shale Shaker, or equal	_____	<u>X</u>
J. Bits while on footage rates	<u>Not Applicable</u>	_____
K. Bits while on day work rates	<u>X</u>	_____
L. Crew boats and marine transportation	<u>Not Applicable</u>	_____
M. Power casing tongs	<u>X</u>	_____
N. Power tubing tongs	<u>X</u>	_____
O. Tubing handling tools	<u>X</u>	_____
P. Special size blowout equipment (Except test plug)	<u>X</u>	_____
Q. Geolograph	_____	<u>X</u>
R. Desander	_____	<u>X</u>
S. Degasser	<u>Not Applicable</u>	_____
T. Mud Centrifuge	<u>Not Applicable</u>	_____
U. Reserve Pits	<u>X</u>	_____
V. Consummable Rig Supplies	_____	<u>X</u>
W.		
X.		
Y.		
Z.		

11. Special provisions not covered above or in Master Drilling Contract:

- A. Placid shall pay invoice cost for truck transportation to tear down, move, and rig up, and \$10 per man hour for crew labor during move and rig-up operations.
- B. Daywork shall begin with the drilling of the rat hole, and shall end when the rig is released.

The above provisions agreed upon and accepted July 12,
19 71.

WITNESSES:

PLACID OIL COMPANY

BY: _____
W. F. Dalton, President

MESA DRILLERS

BY: _____
Ken Blackford

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-13713																				
2. NAME OF OPERATOR Placid Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR 2008 United Bank Center, 1700 Broadway, Denver, Colo. 80202		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4SW (2041' FWL & 1717' FSL) Section 5, Twp. 33S, Rge. 21E		8. FARM OR LEASE NAME U. S. A.																				
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6042' G.L.; 6052' K.B.	9. WELL NO. DU-2																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT Wildcat																				
<table border="0"> <tr> <td>NOTICE OF INTENTION TO:</td> <td></td> <td>SUBSEQUENT REPORT OF:</td> <td></td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELLS <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) Casing Report & DST <input checked="" type="checkbox"/></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELLS <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) Casing Report & DST <input checked="" type="checkbox"/>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 5, T 33S, R 21E
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 WELLS <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) Casing Report & DST <input checked="" type="checkbox"/>																				
		12. COUNTY OR PARISH AND STATE Sant Juan Utah																				

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

- Spudded 9 a.m. - July 14, 1971.
- Ran 3 jts. 13 3/8", 48# casing. Set at 95' with 100 sacks regular 3% cc, 10% Calseal. Plug down at 6:30 p.m. July 14, 1971.
- Ran 45 jts. 9 5/8", 36#, J-55 casing - 1425' set at 1417' with 800 sacks common cement. 2% cc plug down at 6 a.m. July 18, 1971.
- July 20, 1971 recemented 9 5/8" casing with 300 sacks Class A cement 3% cc, 12 1/2# GIL per sack, 2% gel. Job completed at 12 midnight.
- July 21, 1971 recemented 9 5/8" casing with 300 sacks Class A cement 3% cc, 12 1/2# GIL per sack, 2% gel. Plug down at 2 p.m.
- Ran DST #1 2388'-2703' fluid to surface in 10 minutes, sulfur water
Drill Stem Chart: DST ran on July 29, 1971.

IHH	1271.1
IF	186
FF	1138.9
ISIP	1138.9
IF	1112.4
FF	1112.4
FFIP	1138.9
FHH	1271.1

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

SIGNED Harold E. Peterson TITLE Geologist August 6, 1971

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

*File
will file*

PLACID OIL COMPANY

INTER-COMPANY

CORRESPONDENCE

PLACE Dallas Office

DATE July 23, 1971

MEMO TO: Mr. Don Smith
Denver Office

Re: Placid - USA DU-2
San Juan County, Utah

This well is drilling now. It is my understanding that it is a 100% Placid test not to be charged against the Koch deal. Please confirm this.

A. F. Nickelson
A. F. Nickelson

AFN:kh

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Manti-LaSal National Forest
350 East Main Street
Price, Utah 84501

2820

June 24, 1971



Mr. Wayne
USA DU-2
will file

Donald F. Smith
Placid Oil Company
2008 United Bank Center
1700 Broadway
Denver, Colorado 80202

Dear Sir:

Thank you for your letter of June 11, outlining your plans for operation under lease No. U-13713.

As this lease is not on National Forest land we have no authority to approve or disapprove this operating plan. I recommend you submit this to the Bureau of Land Management or other agency having jurisdiction on the lands in question.

In the event any operations are undertaken on National Forest land we should be contacted prior to any work being done and a plan similar to this one submitted for approval.

If we can be of any further assistance in this matter, please contact either this office or the District Ranger's Office at Monticello.

Sincerely,

George F. McLaughlin
GEORGE F. McLAUGHLIN
Forest Supervisor

GEOLOGICAL PROGNOSIS

Well: Placid Oil Company No. DU-2 USA

Location: NE SW (1664' FSL & 2424' FWL) Section 5, T 33S, R 21E
San Juan County, Utah

Elevation: 6042' ~~6080'~~ G.L. ; 6052' ~~6090'~~ K.B. Proposed Total Depth: 4500'

Samples: Two (2) sets of samples should be caught from surface to total depth at 10' intervals and from ----- to ----- at ----- intervals.
Instructions for Disposition: One set of samples should be delivered to Amstrat, 6280 East 39th Street, Denver, Colorado, for storage. The remaining set will be retained temporarily.

Logging Program:

Dual Induction Laterolog: B/surface casing to top salt (approx. 2900')
Induction Electrical Log: -----
BHC GammaRay - Sonic: Surface to total depth.
BHC Formation Density Log: -----
Sidewall Neutron Porosity Log: -----
Synergetic Sand Analysis: -----
GammaRay - Laterolog: Top salt to total depth.
Mud Log: Surface to total depth.

Coring Program:

Conventional Diamond Cores: Conventional Cores may be utilized if shows are found in the Ismay-Desert Creek or Mississippian.
Side-wall Cores: -----

Testing Program:

Conventional Drill Stem Tests: Drillstem tests will be used to evaluate shows. If good reservoir conditions are found in the Mississippian, we should test to get pressure and salinity information even if no shows are detected.

Anticipated Formation Tops:

Formation	Top	Depth	Surface
Quaternary	Alluvium		on surface
Triassic	Moenkopi	30'	(+6060)
Permian	Cutler-Organ Rock Mbr.	280'	(+5810)
	Cedar Mesa Sandstone	510'	(+5580)
	Wolfcamp	1300'	(+4790)
Pennsylvanian	Upper Hermosa	1680'	(+4410)
	Ismay	2380'	(+3710)
	Desert Creek	2680'	(+3410)
	Paradox Salt	2840'	(+3250)
	Lower Hermosa	3600'	(+2490)
	Molas	3860'	(+2230)
	Mississippian	3900'	(+2190)
	Devonian	4400'	(+1690)

Parties to be notified: Placid representatives: Harold Peterson - Office 892-6191 or Home 985-0849 or Jim Murphree - Office 892-6191 or Home 986-1891.

NOTE: All information from this test should be kept confidential.

By: James D. Murphree
James D. Murphree
Date: June 11, 1971

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
Placid Oil Company

3. ADDRESS OF OPERATOR
2008 United Bank Center Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
NE SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E
 At proposed prod. zone
Same as above.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 miles northwest of Monticello, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **2041 ft.**

16. NO. OF ACRES IN LEASE **2509**

17. NO. OF ACRES ASSIGNED TO THIS WELL **80**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH **5000'**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6042' G.L. *5300'*

22. APPROX. DATE WORK WILL START*
July 10, 1971

5. LEASE DESIGNATION AND SERIAL NO.
U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U. S. A.

9. WELL NO.
DU-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 5, T33S, R21E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13 3/8"	54.5#	60'	Cement to surface
12 1/4"	9 5/8"	36#	1500'	Cement to surface

Propose to drill an exploratory test to the Devonian.

1. Primary objective: Mississippian "Leadville" formation.
2. Minimum mud program: 9# fresh water mud to 2900'; 10# salt saturated mud to T.D.
3. Will install and test blowout preventer equipment.
4. Blowout preventers will be given daily operational tests and each test logged.
5. Will drill an 8 3/4" hole from base surface casing to T.D.
6. If commercial production is indicated, will run 5 1/2", 15.5#, J-55 casing and cement with 350 sx.

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.

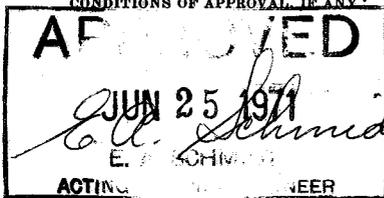
24. SIGNED James D. Murphree TITLE District Geologist DATE June 16, 1971
 James D. Murphree

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

Open

U.S. GEOLOGICAL SURVEY
 DENVER, COLO.

WELL LOCATION PLAT

RECEIVED
 DEPT. OF OIL & GAS OPERATIONS
 JUN 18 1971
 U. S. GEOLOGICAL SURVEY
 SALT LAKE CITY, UTAH

BEARING BY TRANSIT COMPASS
 WITH 15° DECLINATION SET

FD. BRASS CAP

R 21 E

31 | 32
 6 | 5

EAST
 2041

50°03'E 5280 (RECORD)

3563
 SOUTH

T
 33
 S

U.S.A. DU N^o 2
 ORIG. GROUND
 ELEV. 6042

1717 (CALC)
 NORTH



U.S.A. DU N^o 2
 IN SW 1/4, SEC. 5, T 33 S, R 21 E, S. L. B. & M.
 SAN JUAN COUNTY, UTAH
 FOR: PLACID OIL COMPANY
 SCALE: 1"=1000' JUNE 9, 1971
 STADIA SURVEY

ELEV. FROM NW COR., SEC. 5, (6060 SCALED)
 FROM U.S.G.S. MT. LINNAEUS QUAD. 1954

POC No. D4-Z

PLACID OIL COMPANY

INTER-COMPANY

CORRESPONDENCE

PLACE Denver, Colorado

DATE June 21, 1971

MEMO TO: Mr. James D. Murphree
Denver Office

Attached is a letter from Oil and Gas Conservation of Utah which states that we are required to notify Mr. Paul W. Burchell for approval to plug and abandon. This information should be included on your prognosis. Also, attached is a report to be filed with said Department entitled, "Report of Water Encountered During Drilling".



Donald F. Smith

DFS:bjw

Attachments



CALVIN L. RAMPTON
Governor

OIL & GAS CONSERVATION BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

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

DELBERT M. DRAPER, JR.
Chairman
CHARLES R. HENDERSON
ROBERT R. NORMAN
WESLEY R. DICKERSON
EVART J. JENSEN

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

June 18, 1971

Placid Oil Company
2008 United Bank Center
Denver, Colorado 80202

Re: Well No. U.S.A. DU-#2
Sec. 5, T. 33 S, R. 21 E,
San Juan County, Utah

Gentlemen:

Inssofar as this office is concerned, approval to drill the above referred to well is hereby granted. However, said approval is conditional upon a letter being forwarded to this Division stating that your company owns all the acreage within a 660' radius of the proposed well site and further, an exception to Rule C-3 is required due to topography.

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
Area Code - 801

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

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

The API number assigned to this well is 43-037-30058.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

Cleon B. Feight
CLEON B. FEIGHT
DIRECTOR

CBF:sd

From rec copy of letter by the office

June 21, 1971

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

Attention: Mr. Cleon B. Feight

Re: Well No. U.S.A. DU-#2
Section 5, T33S-R21E
San Juan County, Utah
API #43-037-30058

Gentlemen:

We own leasehold rights on all the acreage within a mile radius of our proposed drillsite. The location as set out in our application for permit was so located because of the rugged topography of the area which precluded us from locating this in the exact center of a 40 acre tract. We appreciate your approval, and I apologize for not having submitted the above information with our application for permit.

Yours very truly,

PLACID OIL COMPANY

Donald F. Smith

DFS:bjw

June 16, 1971

United States Geological Survey
8416 Federal Building
125 South State Street
Salt Lake City, Utah 84111

Re: Placid Oil Company
U.S.A. - DU #2
Utah
San Juan County, Utah

Gentlemen:

Attached are the following in connection with our application to drill the captioned well:

1. Application
2. Location Plate

We would appreciate your approval at your earliest convenience.

Yours very truly,

PLACID OIL COMPANY

James D. Murphree

JDM/fd

Attachments

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

U-13713

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

U. S. A.

9. Well No.

DU-2

10. Field and Pool, or Wildcat

Wildcat

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

Section 5, T33S, R21E

12. County or Parrish 13. State

San Juan, 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

Placid Oil Company

3. Address of Operator

2008 United Bank Center Denver, Colorado 80202

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

At surface

NE SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E

At proposed prod. zone

Same as above.

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

20 miles northwest of Monticello, Utah

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

2041 Ft.

16. No. of acres in lease

2509

17. No. of acres assigned to this well

80

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

19. Proposed depth

5000'

20. Rotary or cable tools

Rotary

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

6042' G.L.

22. Approx. date work will start*

July 10, 1971

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
15"	13 3/8"	54.5#	60'	Cement to surface.
12 1/4"	9 5/8"	36#	1500'	Cement to surface.

Propose to drill an exploratory test to the Devonian.

1. Primary objective: Mississippian "Leadville" formation.
2. Minimum mud program: 9# fresh water mud to 2900'; 10# salt saturated mud to T.D.
3. Will install and test blowout preventer equipment.
4. Blowout preventers will be given daily operational tests and each test logged.
5. Will drill an 8 3/4" hole from base surface casing to T.D.
6. If commercial production is indicated, will run 5 1/2", 15.5#, J-55 casing and cement with 350 sx.

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. *James D. Murphree*
 Signed James D. Murphree Title District Geologist Date June 16, 1971
 (This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

WELL LOCATION PLAT

BEARING BY TRANSIT COMPASS
WITH 15° DECLINATION SET

FD. BRASS CAP

R 21 E

31 32
6 5

EAST

2041

50°03'E 5280 (RECORD)

3563
SOUTH

5

7
33
5

U.S.A. DU N°2

ORIG. GROUND
ELEV. 6042

1717 (CALC)
NORTH

John E. Keogh
UTAH REG'D. LAND SURVEYOR N°1963

U.S.A. DU N°2
IN SW 1/4, SEC. 5, T. 33S, R. 21E, S.L.B.#M.
SAN JUAN COUNTY, UTAH
FOR: PLACID OIL COMPANY
SCALE: 1"=1000' JUNE 9, 1971
STADIA SURVEY

ELEV. FROM NW COR, SEC. 5, (6060 SCALED)
FROM U.S.G.S. MT. LINNAEUS QUAD. 1954

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
 Placid Oil Company

3. ADDRESS OF OPERATOR
 2008 United Bank Center Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 NE SW (2041' FWL & 1717' FSL) Section 5, T 33S, R 21E
 At proposed prod. zone
 Same as above.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 20 miles northwest of Monticello, Utah

16. NO. OF ACRES IN LEASE
 2509

17. NO. OF ACRES ASSIGNED TO THIS WELL
 80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2041 ft.

19. PROPOSED DEPTH
 5000'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6042' G.L.

22. APPROX. DATE WORK WILL START*
 July 10, 1971

5. LEASE DESIGNATION AND SERIAL NO.
 U-13713

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 U. S. A.

9. WELL NO.
 DU-2

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Section 5, T33S, R21E

12. COUNTY OR PARISH 13. STATE
 San Juan Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	13 3/8"	54.5#	60'	Cement to surface
12 1/4"	9 5/8"	36#	1500'	Cement to surface

Propose to drill an exploratory test to the Devonian.

1. Primary objective: Mississippian "Leadville" formation.
2. Minimum mud program: 9# fresh water mud to 2900'; 10# salt saturated mud to T.D.
3. Will install and test blowout preventer equipment.
4. Blowout preventers will be given daily operational tests and each test logged.
5. Will drill an 8 3/4" hole from base surface casing to T.D.
6. If commercial production is indicated, will run 5 1/2", 15.5#, J-55 casing and cement with 350 sx.

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 James D. Murphree TITLE District Geologist DATE June 16, 1971
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION PLAT

FD. BRASS CAP

R 21 E

$\frac{31}{6}$ | $\frac{32}{5}$

EAST
2041

50°03'E 5280 (RECORD)

3563
SOUTH

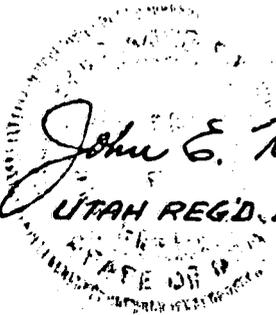
5

U.S.A. DU N^o 2
ORIG. GROUND
ELEV. 6042

1717 (CALC)
NORTH

7
33
5

BEARING BY TRANSIT COMPASS
WITH 15° DECLINATION SET



John E. Keogh
UTAH REGD. LAND SURVEYOR N^o 1963

U.S.A. DU N^o 2
IN SW 1/4, SEC. 5, T 33 S, R 21 E, S. L. B. & M.
SAN JUAN COUNTY, UTAH
FOR: PLACID OIL COMPANY
SCALE: 1"=1000' JUNE 9, 1971
STADIA SURVEY

ELEV. FROM NW COR, SEC. 5, (6060 SCALED)
FROM U.S.G.S. MT. LINNAEUS QUAD. 1954

PLACID OIL COMPANY
2008 UNITED BANK CENTER
1700 BROADWAY
DENVER, COLORADO 80202

June 11, 1971

Mr. Frank Shields
United States Department of the Interior
Bureau of Land Management
P. O. Box 1327
Monticello, Utah 84535

RECEIVED			
Bureau of Land Management Monticello, Utah			
JUN 14 1971			
	Aut	Info	Init
All Personnel			
Dist. Dir.			
Div. Inv. & G.		2	JSM
Operations			
Div. Planning			
Div. Admin.			
San Juan A.M.			
Canyon A.M.	3		HT
Grand A.M.			

Re: Lessee Surface Management Operating Plan
Placid Oil Company
Canyonlands Prospect - USA DU-2
Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 5, T33S-R21E
San Juan County, Utah
Lease No. U-13713

Dear Mr. Shields:

It is our intention to drill a well for oil and/or gas in the above described area to a depth of approximately 4700'.

Pursuant to stipulations in the captioned lease, we submit the following plan of operation:

- A. Location: NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 5, Township 33 South, Range 21 East, San Juan County, Utah. The location for this prospect well will be only as large as needs required. The area will be kept in a neat and orderly manner at all times. The estimated time required to drill this well is four (4) weeks.
- B. The exact location of this well is 1664' from south line and 2424' from west line of Section 5. The only areas to be occupied for this well will be what is needed to complete the well.
- C. This well will be drilled with a rotary rig.
- D. At present, the rig to be used will be a triple mast rig.
- E. To the best of our knowledge, there will be no structures constructed on the facilities used by this Company. Only a drilling rig and possibly a trailer house for the tool pusher will be used.
- F. No cutting of the surface will be done unless it is necessary for a road and for leveling the location.

PLACID OIL COMPANY
2008 UNITED BANK CENTER
1700 BROADWAY
DENVER, COLORADO 80202

United States Department of the Interior
Bureau of Land Management
June 11, 1971
Page 2

- G. Whatever steps may be deemed necessary by the Bureau of Land Management and/or Forest Rangers to prevent soil erosion will be adhered to. All restoration of vegetation shall be in accordance with existing rules and regulations.
- H. Every precaution will be taken to prevent any water pollution from the drilling of this well.
- I. To the best of our knowledge, no explosives or fires will be used during our operations.
- J. Every precaution will be taken to ensure safety of persons using this area, livestock and wildlife.
- K. Any areas of disturbance to vegetation shall be corrected to existing specifications.
- L. The access route to this location will be from the Dugout Ranch, north of the proposed drillsite.
- M. Mr. J. D. Wilson of Moab, Utah, will be our contractor in preparing the road and drillsite.

It is requested that you indicate approval of our plan of operation by signing and returning a copy of this letter. Should we have failed to include any information necessary for approval, I would appreciate your calling me collect. My telephone number is (303) 892-6190.

Yours very truly,

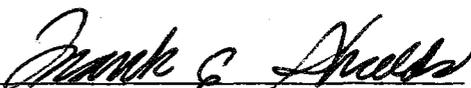
PLACID OIL COMPANY



Donald F. Smith

DFS:bjw
Attachment

APPROVED:



United States Department of the Interior
Bureau of Land Management

Date: 6/14/71

CORE LABORATORIES, INC.
COAL & URANIUM LAB

DENNIS CROSS

CHEMIST

PHONE (307) 265-2731

104 GLENN RD.

CASPER, WYOMING 82601

PLACID OIL COMPANY

INTER-COMPANY

CORRESPONDENCE

PLACE Denver, Colorado

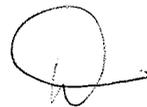
DATE June 10, 1971

MEMO TO: Mr. James E. Wages
Denver Office

Re: Canyonlands Area
San Juan County, Utah
Lease No. 36218
USA U-13713

We have staked the location to drill a well in the SW $\frac{1}{4}$ of Section 5, T33S-R21E, which is covered by the above lease. This lease contains stipulations that require that we obtain approval from the Forest Supervisor of Manti-LaSal National Forest prior to commencing any drilling or construction work. I am informed by Mr. Wages that this location is not on forest lands and that our access roads will not cross any of the forest lands. Apparently a portion of this lease is within forest area; hence, the stipulation.

The lease also provides that we contact the Bureau of Land Management and submit in writing our plan of operation and receive their approval in writing prior to conducting any operations. Mr. J. D. Wilson informed Mr. Gray that he had talked to the Bureau of Land Management office and had received approval. I do not think such verbal approval to the contractor is adequate. Lets discuss this lease and prepare a plan to submit to both the Bureau of Land Management and the Forest Service.



Donald F. Smith

DFS:bjw

*File
Well file
USA - J u - 2*

GEOLOGICAL PROGNOSIS

Well: Placid Oil Company No. DU-2 USA

Location: NE SW (1664' FSL & 2424' FWL) Section 5, T 33S, R 21E
San Juan County, Utah

Elevation: 6042± ; 6055±
6080'+ G.L. ; 6090'+ K.B. Proposed Total Depth: 4500'

Samples: Two (2) sets of samples should be caught from surface to total depth
at 10' intervals and from ----- to ----- at ----- intervals.

Instructions for Disposition: One set of samples should be delivered to
Amstrat, 6280 East 39th Street, Denver, Colorado, for storage. The remaining
set will be retained temporarily.

Logging Program:

Dual Induction Laterolog: B/surface casing to top salt (approx. 2900')
Induction Electrical Log: _____
BHC GammaRay - Sonic: Surface to total depth.
BHC Formation Density Log: _____
Sidewall Neutron Porosity Log: _____
Synergetic Sand Analysis: _____
GammaRay - Laterolog: Top salt to total depth.
Mud Log: Surface to total depth.

Coring Program:

Conventional Diamond Cores: Conventional Cores may be utilized if shows are
found in the Ismay-Desert Creek or Mississippian.
Side-wall Cores: _____

Testing Program:

Conventional Drill Stem Tests: Drillstem tests will be used to evaluate shows.
If good reservoir conditions are found in the Mississippian, we should test to
get pressure and salinity information even if no shows are detected.

Anticipated Formation Tops:

		on surface
Quaternary	Alluvium	
Triassic	Moenkopi	30' (+6060)
Permian	Cutler-Organ Rock Mbr.	280' (+5810)
	Cedar Mesa Sandstone	510' (+5580)
Pennsylvanian	Wolfcamp	1300' (+4790)
	Upper Hermosa	1680' (+4410)
	Ismay	2380' (+3710)
	Desert Creek	2680' (+3410)
	Paradox Salt	2840' (+3250)
	Lower Hermosa	3600' (+2490)
	Molas	3860' (+2230)
	Mississippian	3900' (+2190)
	Devonian	4400' (+1690)

Parties to be notified: Placid representatives: Harold Peterson - Office 892-6191 or
Home 985-0849 or Jim Murphree - Office 892-6191 or Home 986-1891.

NOTE: All information from this test should be kept confidential.

Call Paul W. Burchell, State of Utah, for plugging info. 328-5771 Office or
277-2890 Home.

By: James D. Murphree
James D. Murphree

Date: June 11, 1971

Denver, Colorado

June 11, 1971

MEMO TO: Mr. R. L. Gray
Goodpine Office

Re: POC No. DU-2 USA
Canyonlands Prospect
Section 5, T 33S, R 21E
San Juan County, Utah

Attached is a copy of my geological prognosis for the above captioned well. As I discussed with you before, this well is so "wild" that the estimated tops shown may be badly wrong. However, these represent my best effort with the available control and our planning will have to be based on them.

From studying the problems encountered by other operators in the area, I have concluded that we should set surface pipe through the Permian Cedar Mesa Sandstone. The Cedar Mesa is a thick (800'+) porous sand section that outcrops a few miles west of our location. I have estimated the base of the Cedar Mesa to be at a depth of approximately 1300'. For this reason I recommend that we set 60' of 13 3/8" conductor pipe and then run 1500' of 9 5/8" surface casing. There is no guarantee that we will not have loss circulation problems in the Upper Hermosa section but I do not believe we will. If we should have trouble, 9 5/8" casing will allow room to set an intermediate string of 7 1/2".

I recommend that we use a mud logger on this test and have them log the surface hole. I do not plan to make an electric log run over the surface hole, but we will have two log runs - one at the top of the salt prior to our saturating the mud system, and one at T.D. We will plan to let Dresser Atlas have this job.

Any coring or testing that we do will be handled out of Grand Junction, Colorado, or Farmington, New Mexico. If we can anticipate need for these services, we will have them deliver the necessary tools such as core barrel, etc. to the location in advance.

Hycalog services this area out of Casper, Wyoming, but will charge us transportation only from Grand Junction. Christensen services the area from Grand Junction. If you have a preference, let me know so I can alert them.

Denver, Colorado

June 11, 1971

Page 2

If you have a preference on which tester to use, you might also let me know so I can check out availability of tools, etc.

Please note that we want to run this as a "tight hole". In your conversations with service people, I would appreciate your asking them to help us keep it "tight".

Let me know any other questions you have that I can help you with.

Very truly yours,

James D. Murphree

JDM/fd

Attachment

cc: Mr. Bill Biskamp