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Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 17004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
Superior Oil Company, through its Agent, Mobil Oil Corp.

3. ADDRESS OF OPERATOR
P. O. Drawer G, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1648.6' FSL, 687.6 FWL, Sec. 12, T36S, R25E, SLM
At proposed prod. zone San Juan County, Utah
Same as above (vertical hole)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
17.5 miles southwest of Dove Creek, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 991'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6300

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6515.1' ungraded ground level

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17.5"	13-3/8"	54.5# K-55	80'	Cement to surface
12-1/4"	9-5/8"	36.0# K-55	1910'	Cement to surface
8-3/4"	5-1/2"	15.5# K-55	6300' TD	Cement from TD to + 4600'

5. LEASE DESIGNATION AND SERIAL NO.
U40052 **COLO. OIL & GAS CONS. COMM**

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cedar Point

9. WELL NO.
F-13-12G

10. FIELD AND POOL, OR WILDCAT
Wildcat Undesignated

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 12, T36S, R25E, SLM

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

16. NO. OF ACRES IN LEASE
1920

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

19. PROPOSED DEPTH
6300

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
August 5, 1985

Superior Oil, through its agent, Mobil Oil Corporation, proposes to drill the above-referenced well per attached drilling and surface development plan.

~~Please find attached a check for Seventy Dollars (\$70.00) for Right of Way fee for an off lease road.~~

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS AND MINING
DATE 8/14/85
BY: John R. Dyer
WELL SPACING: 6-3 (C)

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DIVISION OF OIL
GAS & MINING

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 Clyde F. Benally TITLE Sr. Regulatory Coordinator DATE July 29, 1985
C. J. Benally

PERMIT NO. _____ APPROVAL DATE _____

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

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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APPENDIX IV

COLO. OIL & GAS CONS. COMM.

DENVER E&P DIVISION - WEST
MOBIL OIL CORPORATION
DRILLING ENGINEERING

JULY 10, 1985

DRILLING PERMIT
APPLICATION DATANAME AND LOCATION:CEDAR POINT #13-12
1648.6' FSL, 687.6' FWL Section 12-T36S-R25E
San Juan County, Utah
G.L. = 6515' ± K.B = 6528' ±

<u>FORMATION TOPS:</u>	<u>DEPTH FROM K. B.</u>
Chinle	1859'
Shinarump	2579'
Cutler	2834'
Hermosa	4569'
Upper Ismay	5908'
Hovenweep	5977'
Lower Ismay	6051'
Gothic	6116'
Desert Creek	6168'
Chimney Rock	6262'
TD	6300'

DRILLING PROCEDURE:

1. Prepared location. Use rathole digger to drill a 17-1/2" conductor hole to 80'±. Run two joints of 13-3/8" to bottom and cement to surface.
2. MIRU drilling rig.
3. Drill out of conductor with a 12-1/4" bit to 1910'± using lightly treated fresh water.
4. Run 9-5/8" surface casing to bottom and cement in place back to the surface. Nipple up BOP stack and choke manifold system. Test entire BOP system and casing to 2000 psi before drilling out.
5. Drill out cement and float equipment with 8-3/4" bit. Continue drilling to ±2550' w/lightly treated water. Begin mud-up to a LSND system and continue drilling to a planned TD of 6300'.

6. Run recommended logs, condition hole and run 5-1/2" casing to TD. in place as recommended in the cement program. GOLD OIL & GAS CONS. COM
7. Release rig and prepare well for completion.

CASING AND CEMENT:

<u>STRING</u>	<u>SIZE</u>	<u>WEIGHT & GRADE</u>	<u>CPLG</u>	<u>DEPTH</u>	<u>CEMENT</u>
Conductor	13-3/8"	54.5# K-55	ST&C	80'	Circulate to surf.
Surface	9-5/8"	36.0# K-55	ST&C	1910'	Circulate to surf.
Production	5-1/2"	15.5# K-55	LT&C	0'-6300'	Cmt from TD to ±4600'

MUD PROGRAM:

<u>INTERVAL</u>	<u>TYPE OF SYSTEM</u>	<u>WEIGHT</u>
0'-2550'	Fresh Water	8.8-9.2
2550'-TD	LSND	9.5-11.0

LOGGING PROGRAM:

Surface Hole: None

Production Hole: DIL/SFL/GR/SP
 CNL-FDC GR w/Caliper
 Sonic-GR-Caliper

WELL CONTROL PLAN:

12-1/4" Surface Hole (0'-1400')

13-3/8" casing head w/two 3" valves welded on for a diverter system.

8-3/4" Production Hole (1400'-TD)

One 11"-3000 psi annular preventer

One 11"-3000 psi double ram preventer (blind rams above, pipe rams below).

One 11"-3000 psi drilling spool (w/flanged kill line and choke line outlets).

CHOKE MANIFOLD:

2-1/16"-3000 psi dual wing manifold. Each wing with two manual valves and one choke. One positive choke and one adjustable choke.

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COLO. OIL & GAS CONS. COM

AUXILIARY EQUIPMENT:

Upper & lower kelly cock valves.
Back pressure and full opening drill string.
Safety valves.
Gas detector.

Estimated bottom hole temperature: 130°F
Estimated maximum surface pressure: 700 psi
Estimated bottom hole pressure: 3300 psi

No abnormal temperature or H₂S is anticipated. Hole sloughing (9.8 #/gal.) may be encountered in the Shinarump at ±2300'.

DEVIATION:

Deviation should not present any problems due to the low dip of the formations. Therefore Production Geology has placed no limits on horizontal deviation of the wellbore.

TESTING:

One DST in the Desert Creek from 6230'-6260'.
Production test after initial completion.

MUD LOGGERS:

Two-man unit from top of Hermosa (±4569') to TD.

STIMULATION:

Perforate and acidize the Desert Creek. Possible frac. after test.
Typical completion practice entails 100-150 gals/ft. of 15% HCl acid.

RTM/sp

D/8555


R. T. Maffett

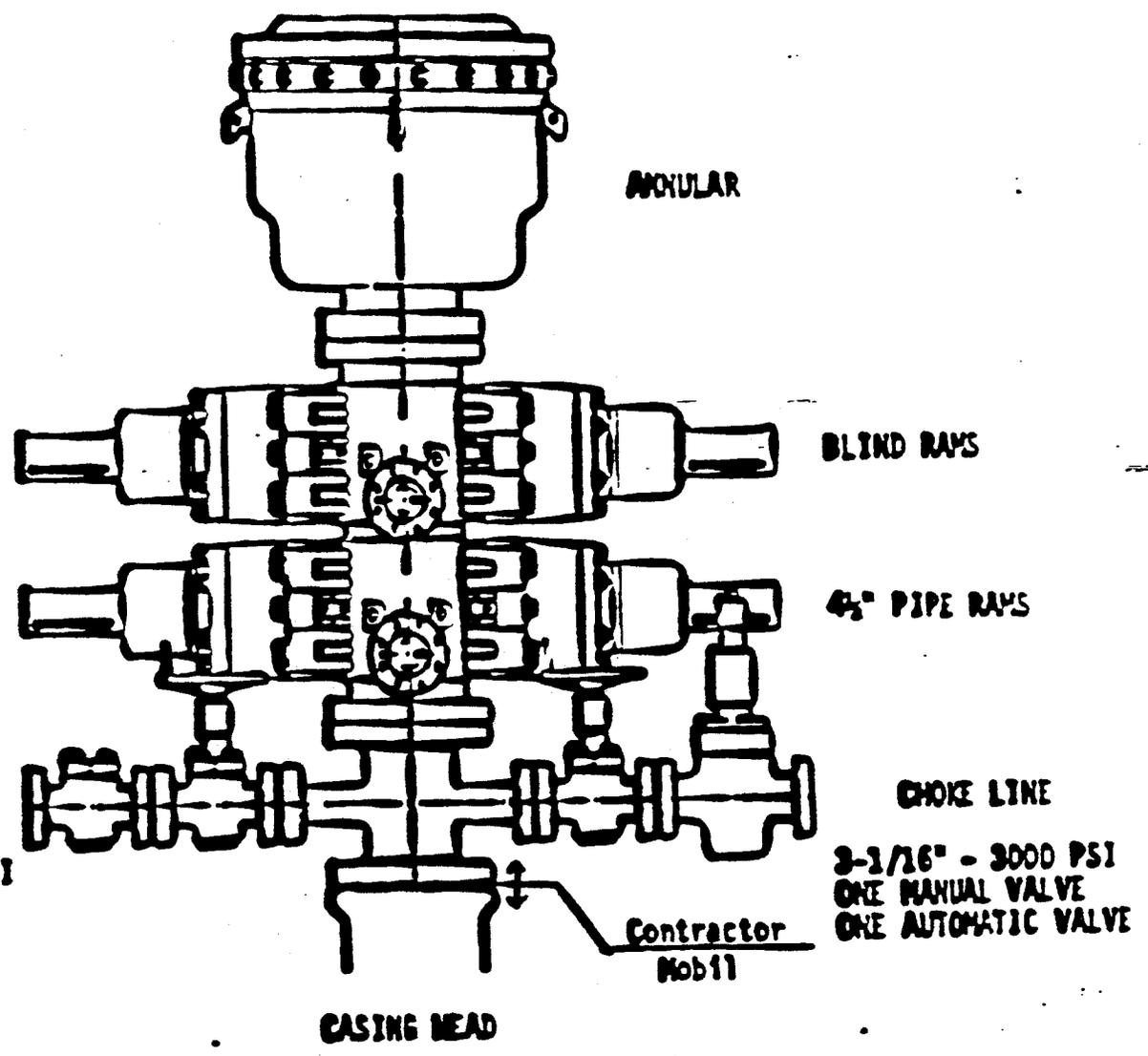
AUG 1 1985

GULF OIL & GAS CONS. COM.

APPENDIX II

BDP EQUIPMENT

21" - 3000 PSI WP



ANNULAR

BLIND RAMS

4 1/2" PIPE RAMS

KILL LINE

CHOKE LINE

2-1/16" - 3000 PSI
ONE MANUAL VALVE
ONE CHECK VALVE

2-1/16" - 3000 PSI
ONE MANUAL VALVE
ONE AUTOMATIC VALVE

Contractor
Mobil

CASING HEAD

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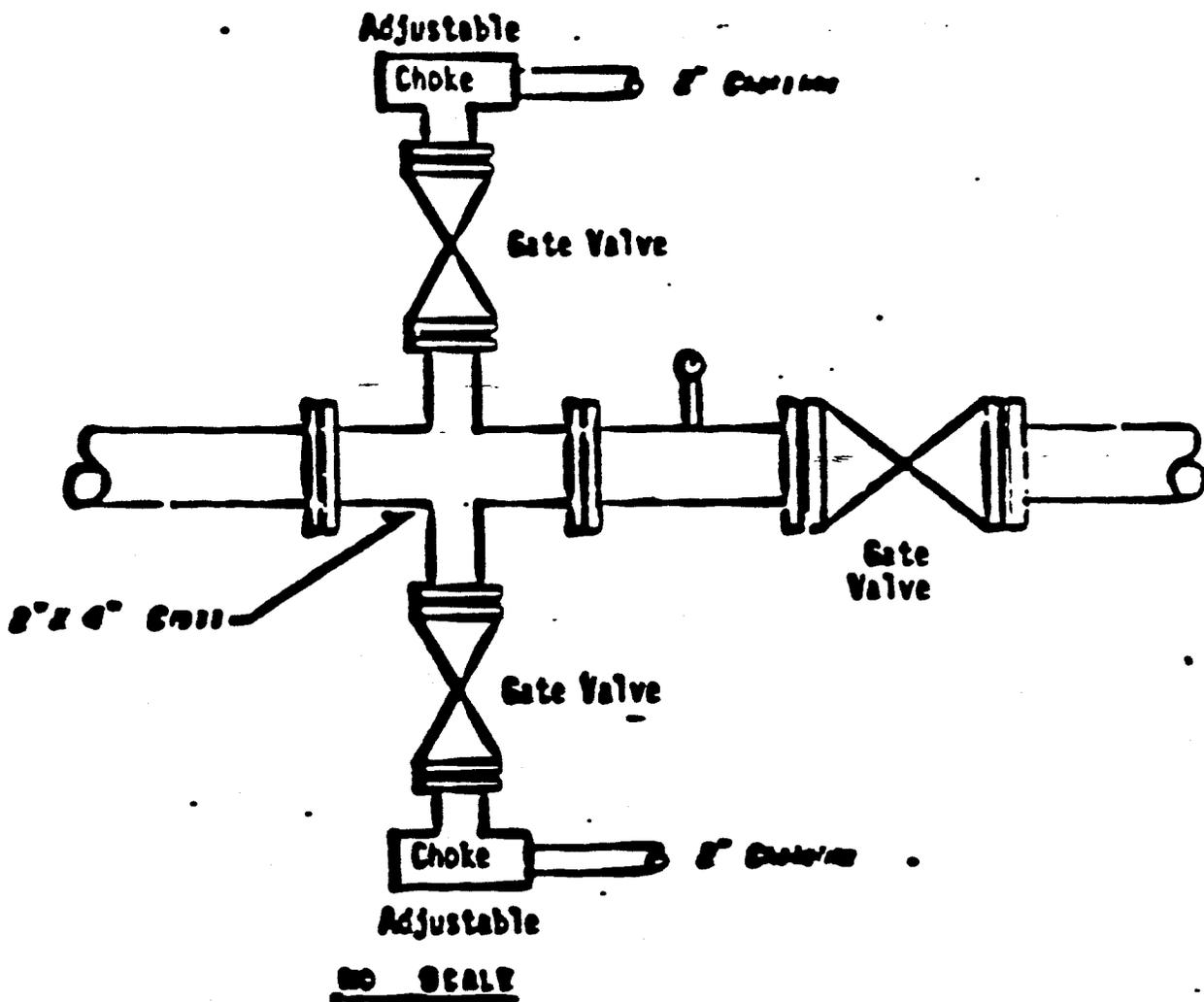
CHOKE MANIFOLD

AUG 1 1955

3000 psi

COLO. OIL & GAS CONS. COMM.

PLAN OF CHOKE MANIFOLD AS SHOWN ON 20' FROM DOP'S



SKETCH II

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Mobil Oil Corporation

P.O. DRAWER G **COLO. OIL & GAS CONS. COMM.**
CORTEZ, COLORADO 81321

July 26, 1985

Mr. Grey Noble
District Manager
U. S. Department of Interior
Bureau of Land Management
P. O. Box 970
Moab, Utah 84532

Re: Surface Use Development Plan
Proposed Well Cedar Point F13-12G
1649' FSL 688' FWL NWSW
Section 12, T36S, R25E
San Juan County, Utah

Gentlemen:

We submit the following Application with Plats for permission to drill the referenced well.

1. By road travel the location is approximately 17.5 miles southwest of Dove Creek, Colorado. To reach the location, start at the junction of Dolores County Road 7 and U. S. Highway 666 across the highway from Blue Mountain Cafe in Dove Creek, Colorado, and go south .10 mile on Dolores County Road 7; then turn right (west) onto County Road H and go 3.5 miles as the road curves to the southwest to County Road J; then continue west on County Road J and go 3.8 miles to the Utah state line and onto San Juan County Road #342; then go approximately 2.9 miles on County Road 342 (this road makes a left turn, then a right turn, then a left, then a right and a left) until it intersects with County Road 344; then turn right (west) onto County Road 344 and go 1.0 mile to County Road 341; and then turn left (south) onto County Road 341 and go approximately 4.1 miles to the start of the access road to well.
2. Approximately .9 mile of existing old trail or road need to be graded and improved and approximately .1 mile of new road will be constructed. The maximum width of the access road will be 25 feet with a maximum grade of 8% and low water crossings will be constructed where needed. The road will be flat and no crowning is anticipated at this time. All grading and improvement will be done with native material within the access road. Right-of-way approval is requested for approximately .9 mile of off-lease road all in the north half of Section 12, T36S, R25E. This right-of-way is the existing trail mentioned above.
3. Mobil Oil does have a current inventory of all existing wells within a one mile radius of the proposed well. Attached is Plat #3 showing existing wells in the area as our information shows it.

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4. Mobil Oil proposes to construct production facilities on location when well is productive in paying quantities. Other related facilities, such as a gas line, will be considered at that time. All above-ground facilities will be painted a flat, non-reflective, Mobil beige color. The construction and operation of the production facilities will conform to all conditions of approval for permit to drill.
5. Location and type of water supply will be from Mr. Ross Carhart's private fresh water supply approximately 3.5 miles from the location and in the SW 1/4 SE 1/4 of Section 32, T35S, R26E. Water will be trucked to the location over existing roads and access road to be built.
6. All construction material necessary to build the drilling pad will be obtained from the location. Graveling of the access and/or existing road is not deemed necessary for the drilling of this well. The drainage, if any, will be diverted around the north and west sides of the location.
7. Methods of handling waste disposals are as follows:
 - A. A trash or burn basket, an earthen pit 6 to 8 feet deep with steep sides and mesh wire fencing, will be constructed in the southeast corner of the reserve mud pits. (See Plat #4.)
 - B. The reserve mud pits will be located on west side of the location for the drilling mud, cuttings and fluids. The reserve pit will be fenced on three sides away from the pad while drilling and the fourth side will be fenced as soon as the drilling rig moves out. When drilling operations are complete, the reserve pit will be allowed to dry naturally for not more than 90 days after completion of the well and then be backfilled, leveled and contoured to the original landscape as much as possible. (See Plats #4, #5 and #7.)
 - C. Chemical toilets, meeting OSHA approval, will be provided and maintained during drilling operations.
8. The support facilities consisting of two small mobil homes for use by supervisory personnel of Mobil Oil and the drilling contractor will be parked on the east edge of location as shown on the attached Plat #4 during drilling operations. No additional or other ancillary facilities are anticipated at this time.
9. A plat of the proposed drill pad and its location relative to topographic features is attached (see Plat #2). Diagrams showing cross section of cuts and fills, site organization, and drilling rig orientation are contained in Plats #4, #5, #6 and #7. The trees will be removed and piled north of the reserve pits. The top 6 to 8 inches of the soil material will be removed from the location and stockpiled adjacent to the location and separate from the trees on the north and east side of the location. The access to the location will be to the southeast corner of the pad.

AUG 1 1988

COLO. OIL & GAS CONS. C

10. Upon completion of the drilling operations and if the well is deemed dry and/or not usable for water disposal purposes, then the location and the access road will be cleaned and restored to the original topographical contours as much as possible and reseeded in accordance with the requirements and stipulations of the surface owner with seed mixture recommendation of the Bureau of Land Management. Immediately on completion of drilling, all trash and debris will be collected and disposed of in the trash basket and covered with at least two feet of cover.

BLM office will be notified before any actual reclamation work is started. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour and appropriate water bars will be built.

The reclamation seeding will be done during late fall and the seeded area will be dragged over to assure seed cover. The following seed mix has been prescribed:

3 pounds per acre of Crested Wheatgrass (Agropyron Desertorum)
3 pounds per acre of Western Wheatgrass (Agropyron Smithii)
2 pounds per acre of Fourwing Saltbrush (Atriplex Canenscens)
1 pound per acre of Wild Sunflower (Helianthus Annuus)

11. The surface land at the location and all the surface land crossed by the access road to be constructed is federal land and managed by Bureau of Land Management, San Juan Resource Area Office, Monticello, Utah 84535, telephone number (801) 587-2201.
12. Any additional questions, requests and/or unanticipated developments will be channeled through the appropriate individuals of the BLM. Superior/Mobil Oil has not selected a drilling contractor at this time. All dirt contractors bidding for the location construction were in attendance during the pre-drill site inspection.
13. As for the contacts with Superior/Mobil Oil, the following are company and contract representatives:

Permitting--C. J. Benally
Construction--C. D. Likes
Drilling--J. E. Gagneaux

Mailing Address: P. O. Drawer G.
Cortez, Colorado 81321

Telephone: 303-565-3733 (24 hours)

Dirt Contractor--not yet determined

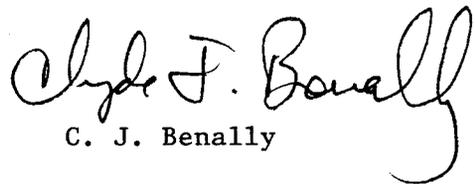
Drilling Contractor--not yet determined

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I hereby certify that I, or persons under my direct supervision, have ^{COLO. OIL & GAS CONS. COM.} inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Mobil Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. The statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

MOBIL OIL CORPORATION

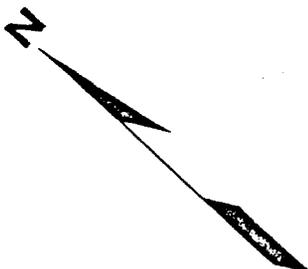
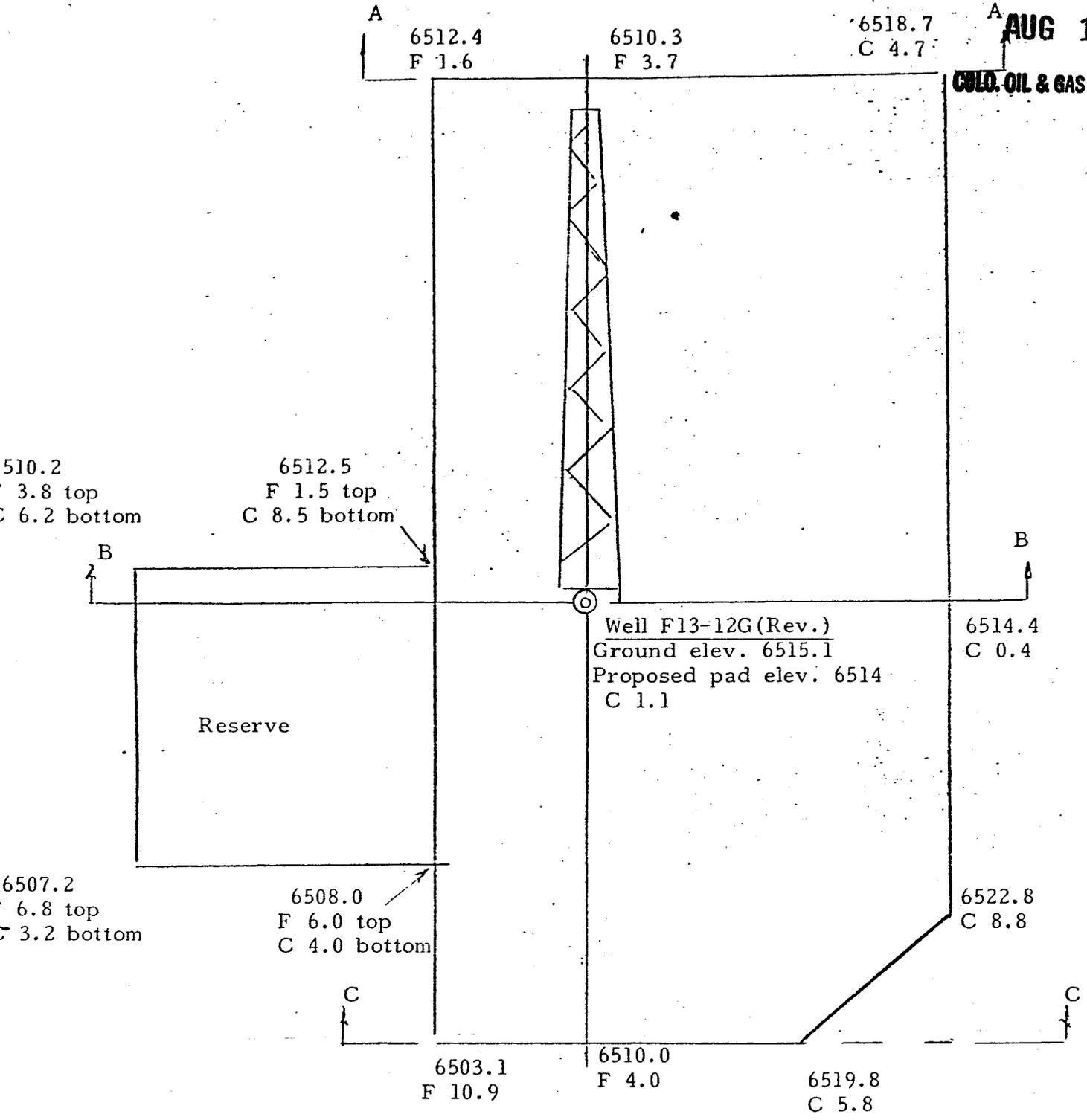

C. J. Benally

CJB:dw

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Scale: 1" = 50'

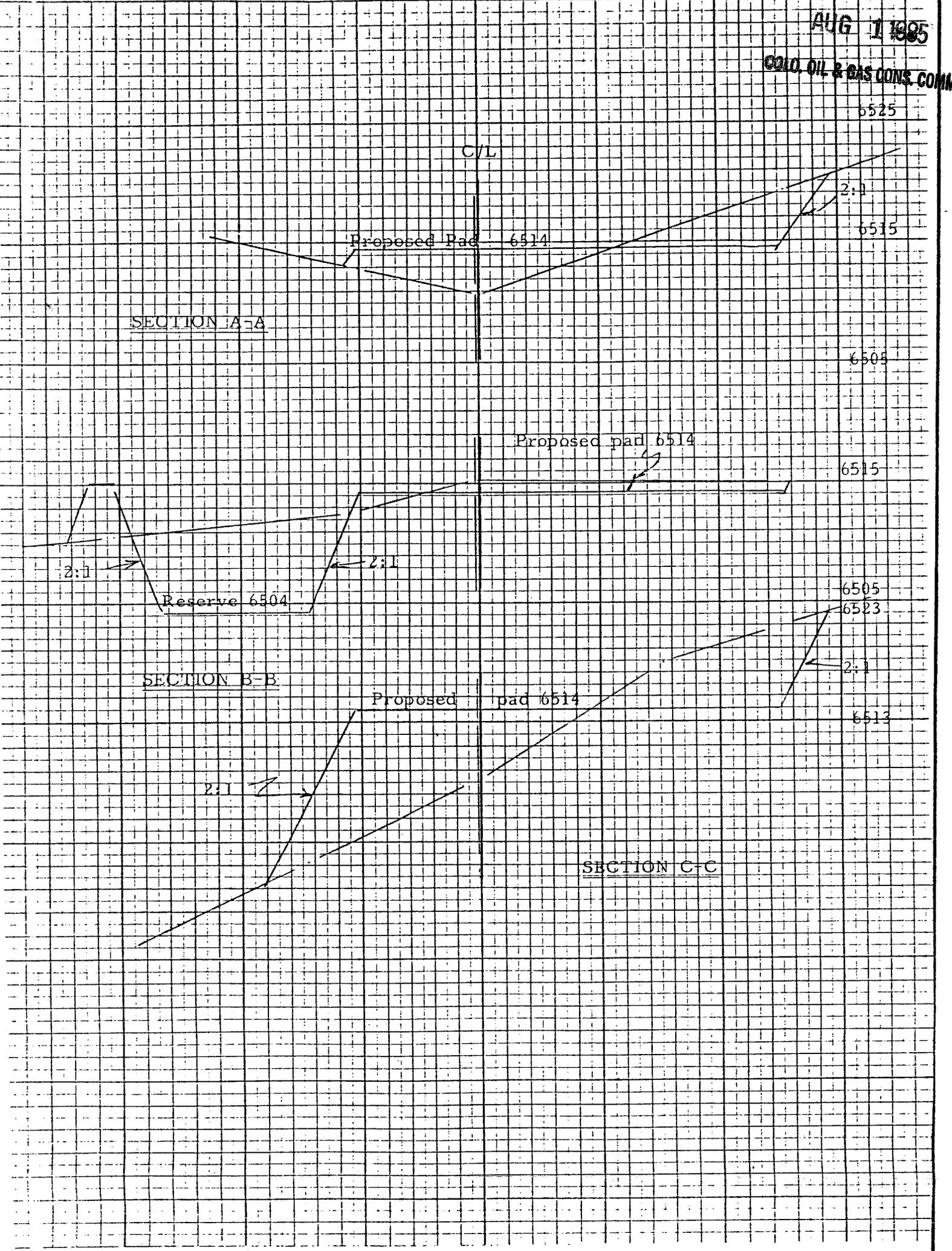
THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496

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COLORADO OIL & GAS CONS. COMM.



Horizontal scale: 1" = 50'
Vertical scale: 1" = 10'

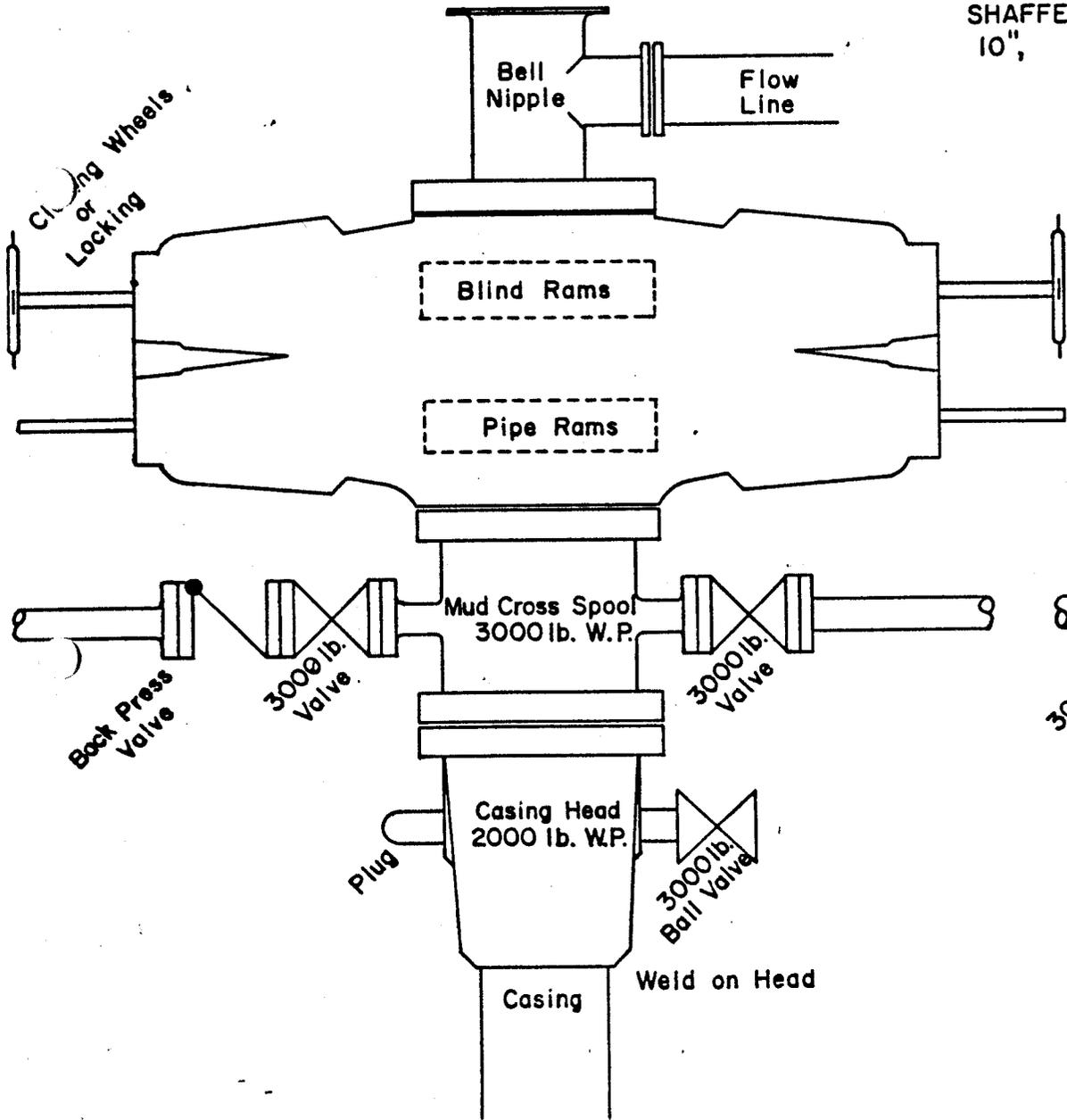
THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

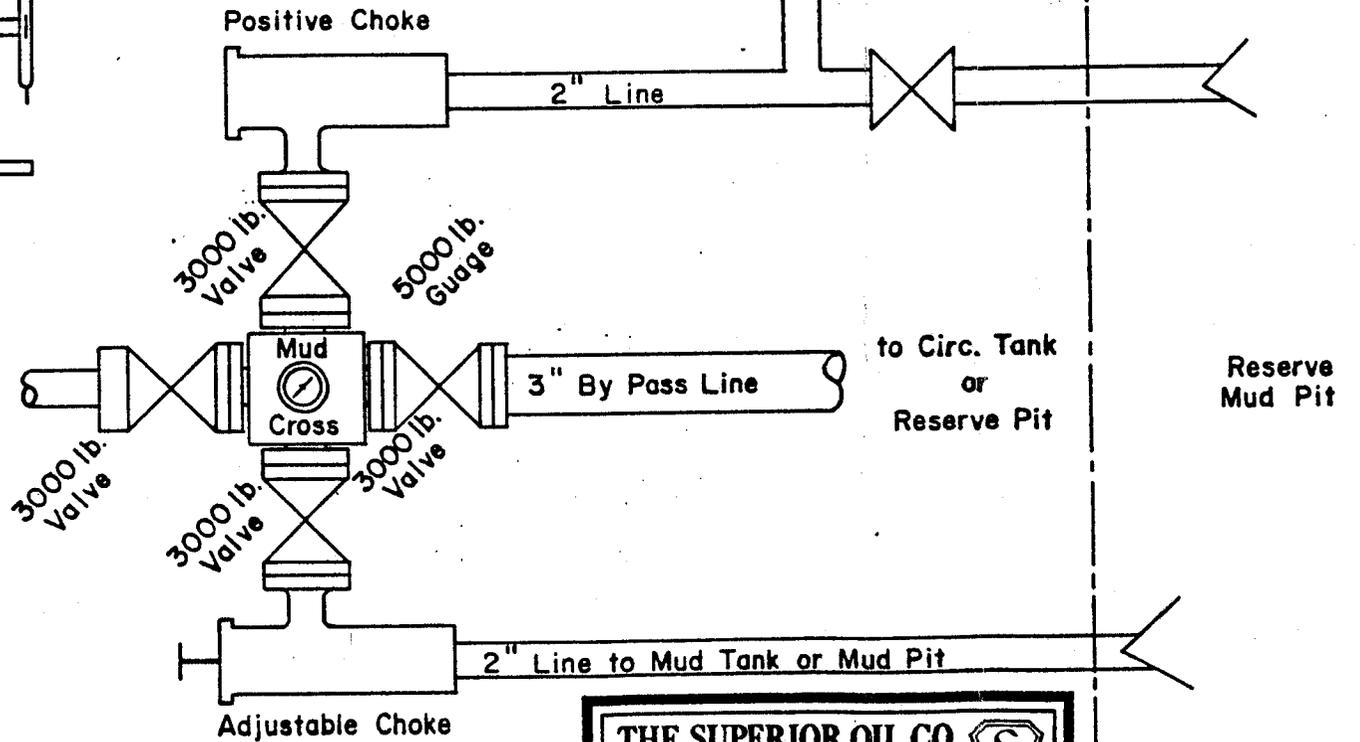
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SHAFFER DOUBLE GATE BLOW OUT PREVENTER
 10", 3000 lb. W.P., 6000 lb. Test, Type E



Circulating Tank

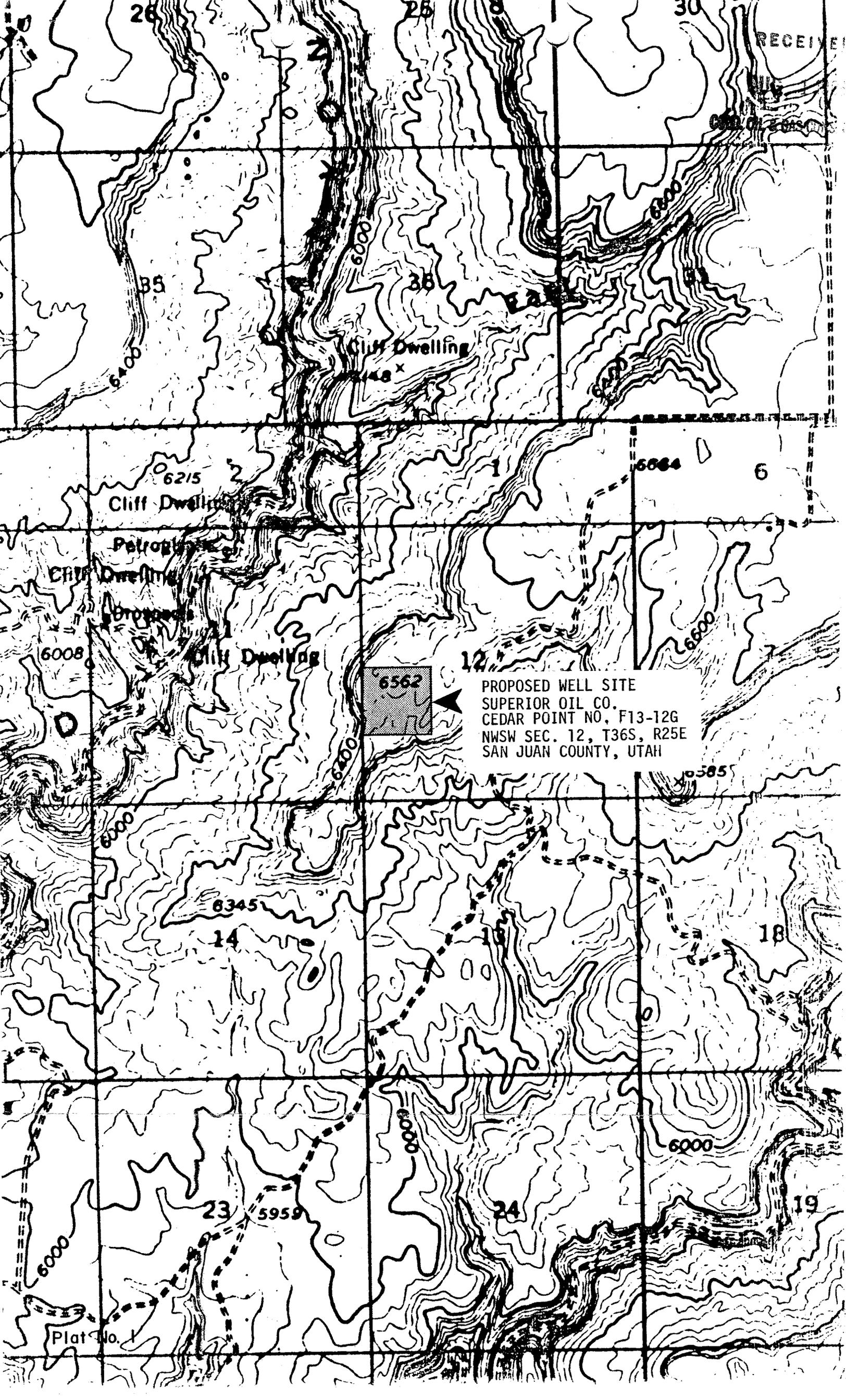
Reserve Mud Pit

THE SUPERIOR OIL CO.
 CORTEZ - CASPER DISTRICT
 ENGINEERING DEPARTMENT



**SCHEMATIC DIAGRAM
 OF PRESSURE CONTROL
 EQUIPMENT**

BY JES DATE 6/25/79
 SCALE NONE REVISED



RECEIVE

26

28

30

35

38

Cliff Dwelling

6215
Cliff Dwelling

Petropolis

Cliff Dwelling

Petropolis

Cliff Dwelling

6562

PROPOSED WELL SITE
SUPERIOR OIL CO.
CEDAR POINT NO. F13-12G
NSW SEC. 12, T36S, R25E
SAN JUAN COUNTY, UTAH

6008

12

6004

6

6600

6000

6345

14

6585

18

6000

23

5959

24

19

Plat No. 1

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COLORADO OIL & GAS COMMISSION



T. 35 S.
T. 36 S.

T. 35 S.
T. 36 S.

R. 25 E. R. 26 E.

Cliff Dwelling

Petroglyphs

Cliff Dwelling

Cliff Dwelling

Cliff Dwelling

Existing Road

Proposed Access Road

F13-126

**PROPOSED WELL SITE
AND FACILITIES**

CEDAR POINT F13-126
Sec. 12, T. 36 S. - R. 25 E.
1648.6' FSL - 687.6' FWL
San Juan County, Utah

DRAWN BY: JEG DATE 6-14-85 SCALE 1" = 2000'

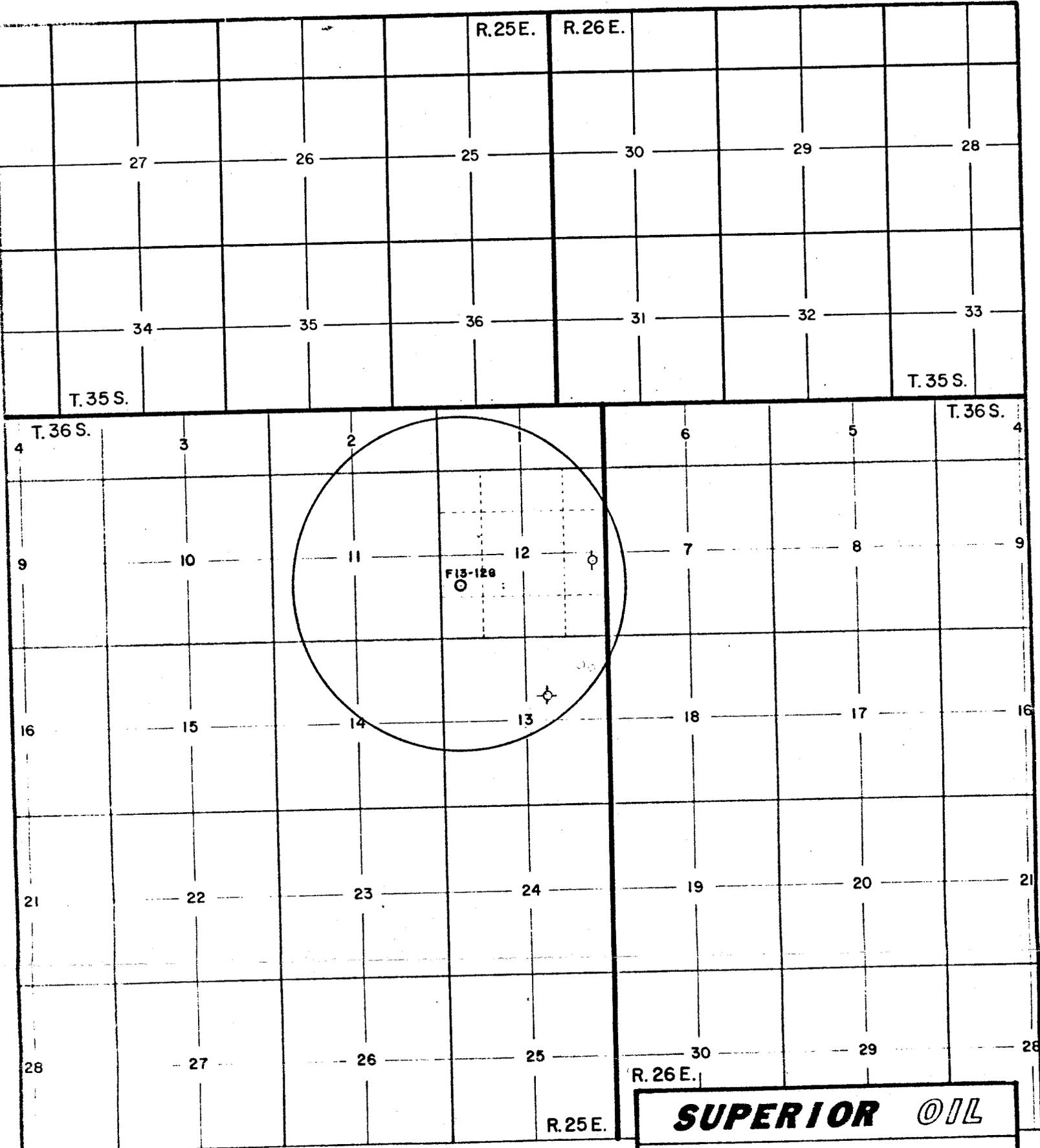
SUPERIOR OIL WESTERN DIVISION

Plat No. 2

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CNO. OIL & GAS CONS. COMM.



- Proposed Well
- Producing Well
- ☼ Gas Well
- ⊕ Water Injection Well
- ⊖ Temporarily Abandoned
- ⊗ Plugged and Abandoned

SUPERIOR OIL

EXISTING WELLS
SURROUNDING
PROPOSED WELL

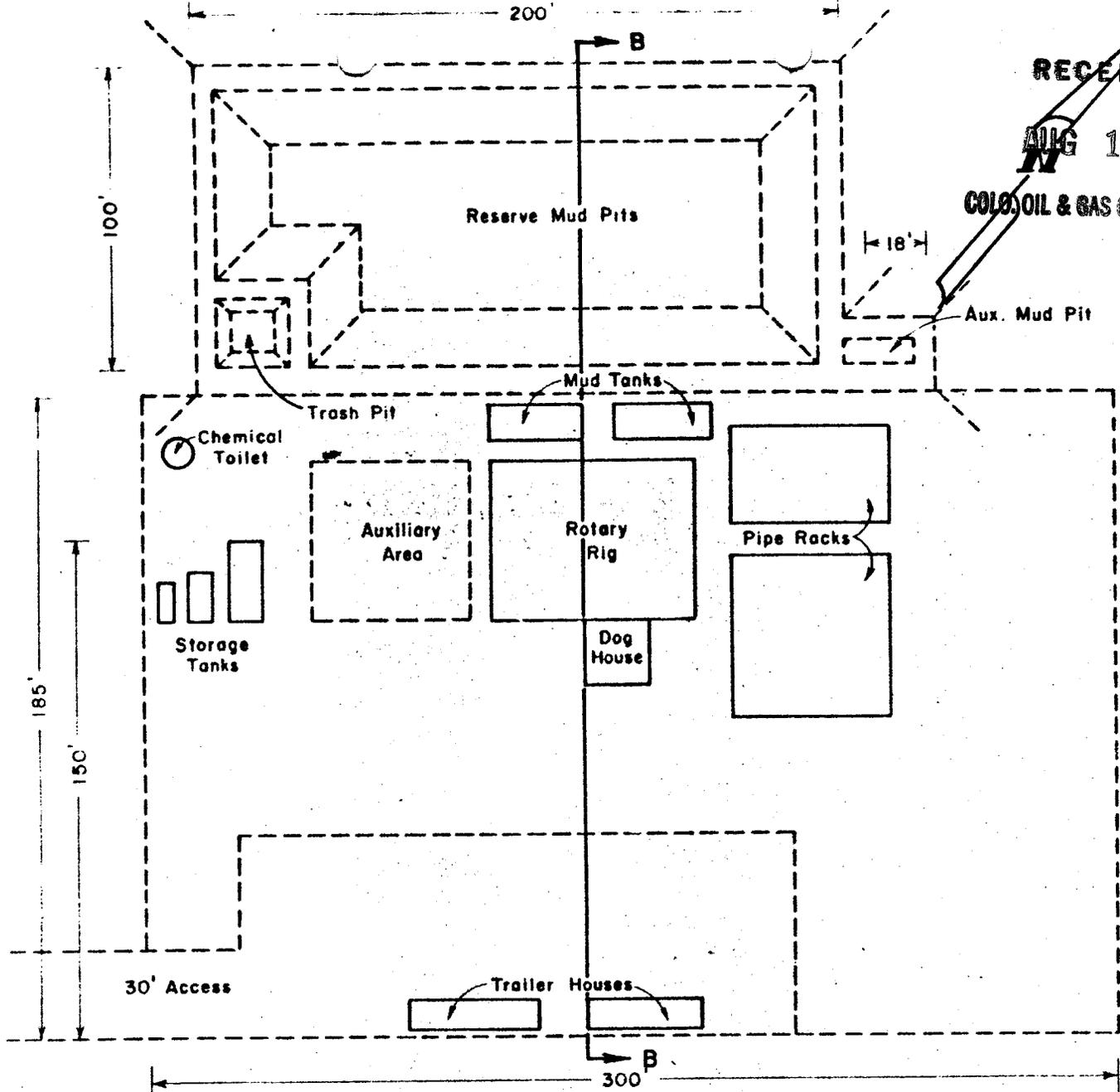
By JEG Date 6-14-85

Plat No. 3

RECEIVED

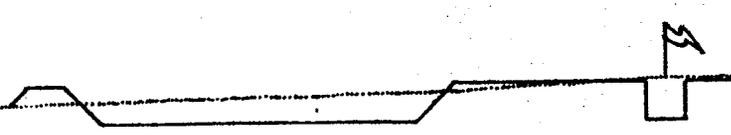
AUG 1 1985

COLORADO OIL & GAS CONS. COMM.

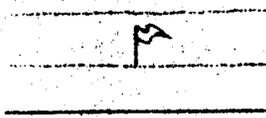


The Drilling Pad will be graded and compacted, and composed of native materials.

PROPOSED WELL SITE
Cedar Point No. F13-12G
Original Elev. 6515.1'



Original Contour _____
 Reference Point _____
 Graded Proposal _____



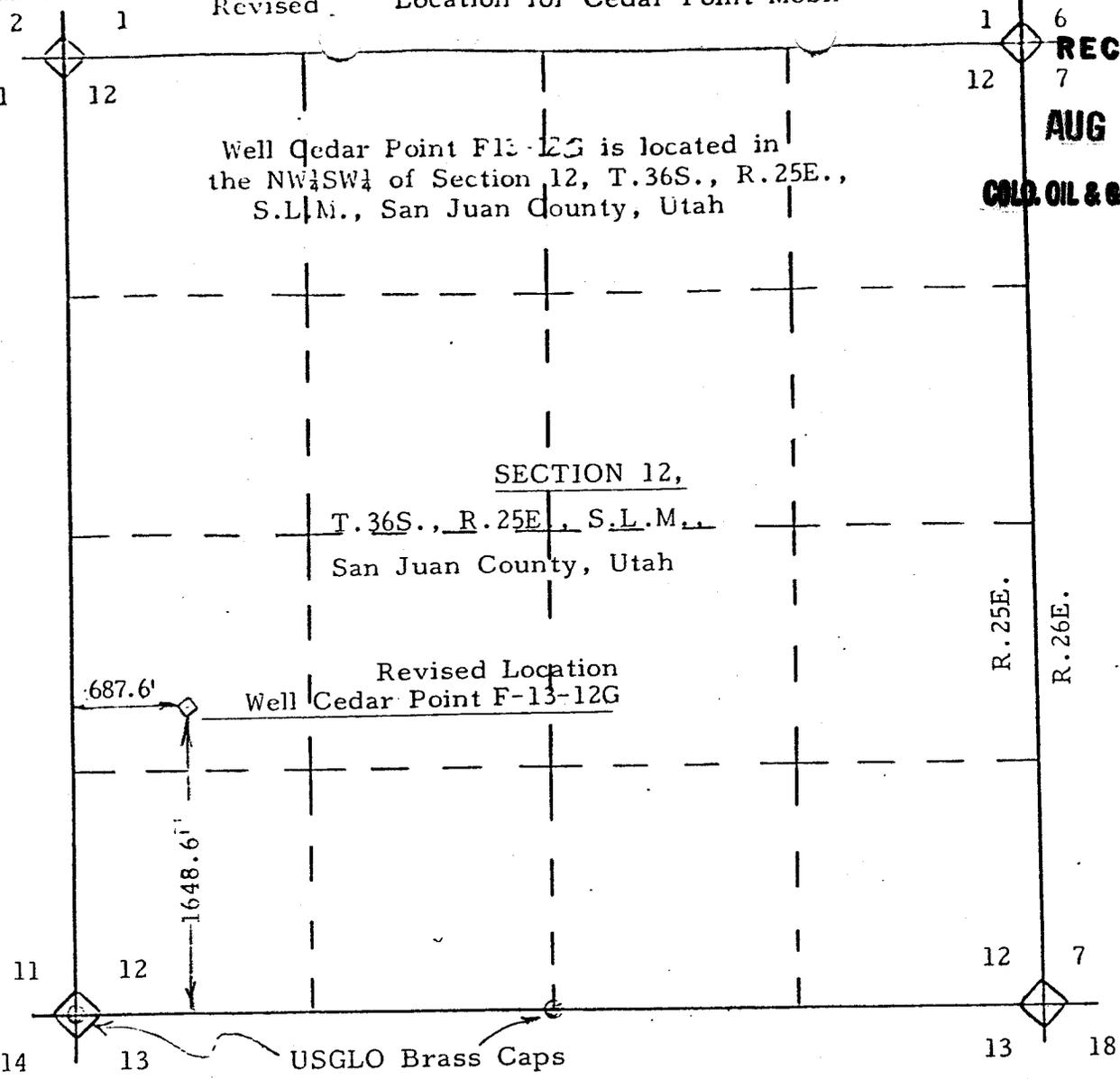
THE SUPERIOR OIL CO. 
 CORTEZ CASPER DISTRICT
 ENGINEERING DEPARTMENT
**RIG LAYOUT & DRILL
 PAD CROSS SECTION**
 Cedar Point No. F13-12G
 Sec. 12, T. 36 S.-R. 25 E.
 San Juan County, Utah
 BY JEG DATE 6-24-85
 SCALE 1" = 80' REVISED

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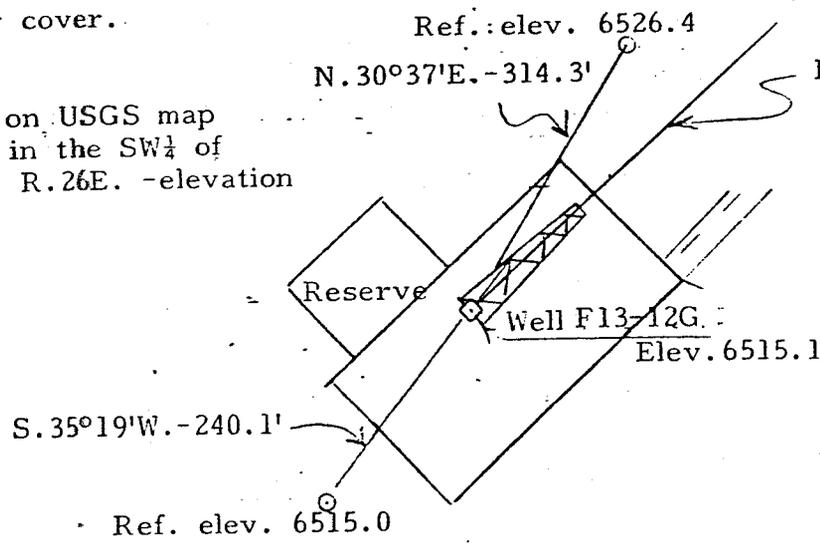
COLO. OIL & GAS CONS. COMM.

Well Cedar Point F13-12G is located in the NW 1/4 SW 1/4 of Section 12, T.36S., R.25E., S.L.M., San Juan County, Utah

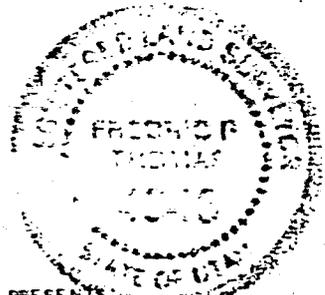


Soil: Sandy-rocky.
Vegetation: Native pinon-juniper cover.

Elevation based on USGS map elevation shown in the SW 1/4 of Sec. 7, T.36S., R.26E. -elevation of 6585.



Access - 500'± new construction and 3500'± reconstruction



Scale: 1" = 200'

KNOW ALL MEN BY THESE PRESENTS THAT I, FREDRIC P. THOMAS do hereby certify that I prepared this plat from an actual and accurate survey of the land and that the same is true and correct to the best of my knowledge and belief.

Fredric P Thomas

FREDRIC P THOMAS Bearing by Reg. L.S. and P.E. Soloer Colo. Reg. No. 6728 observation

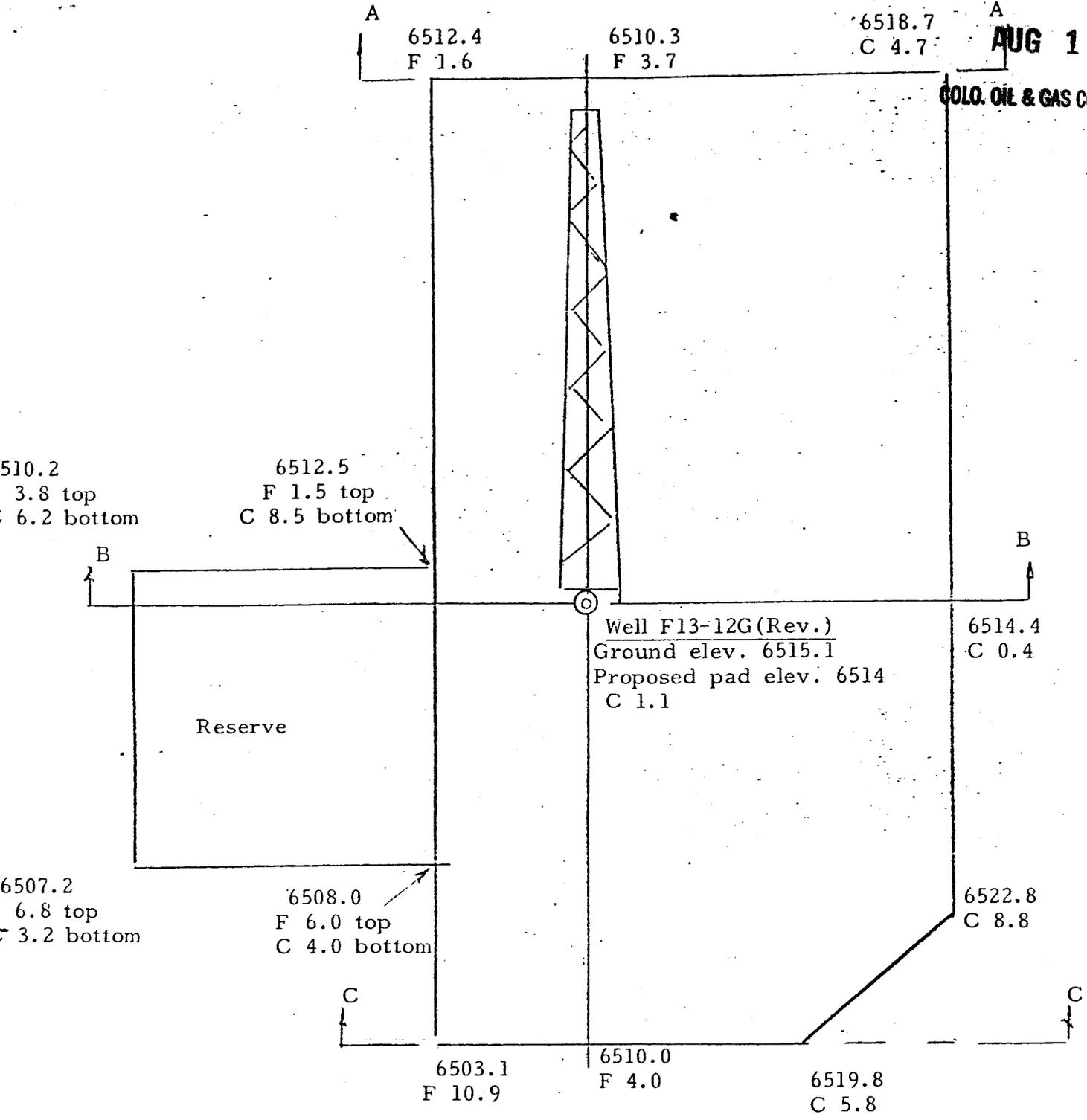
THOMAS Engineering Inc.

215 N. Linden
Cortez, Colorado
565-4496

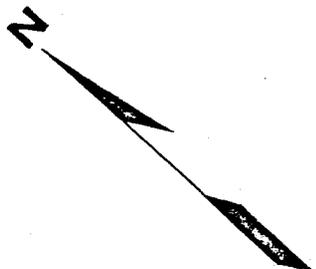
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COLO. OIL & GAS CONS. COMM.



Scale: 1" = 50'



THOMAS Engineering Inc.

25 N. Linden
Cortez, Colorado
565-4496

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 DRILL DEEPEN PLUG BACK

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 (Also to nearest drilg. unit line, if any) 991'

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APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 8/14/85
 BY: John R. Dase
 WELL SPACING: C-3 (e)

RECEIVED

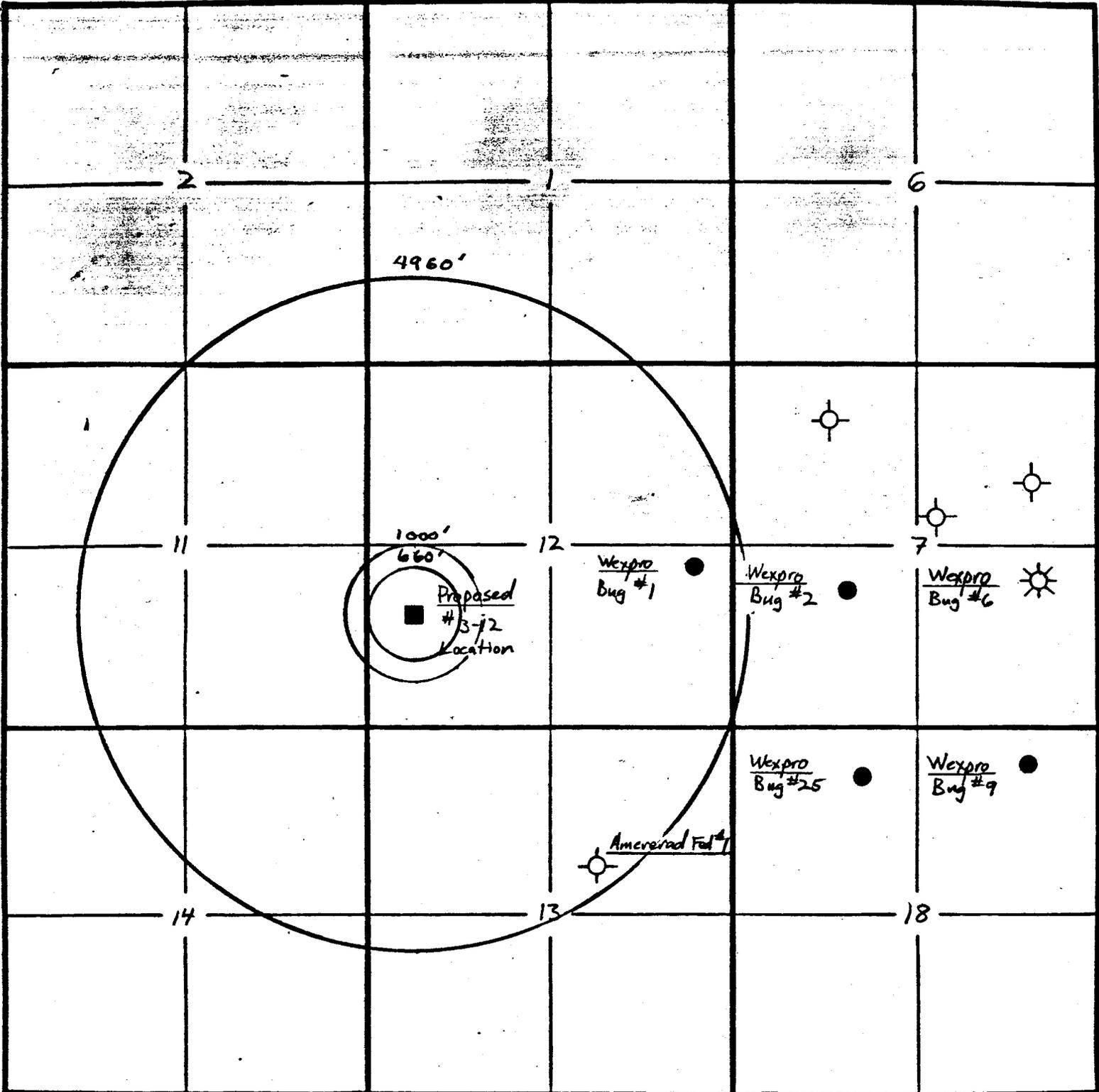
AUG 08 1985

DIVISION OF OIL
 GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present 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: Clyde J. Benally TITLE: Sr. Regulatory Coordinator DATE: July 29, 1985
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:



Legend

- Oil Well
- ⊗ Abandoned Oil Well
- ⊕ Dry Hole
- ⊛ Gas Well
- ⊙ Oil and Gas Well
- ⊗ Abandoned Gas Well
- Location or Drig. Well
- ⊕ Salt Water Disposal Well
- ⬇ Injection Well

Contoured On: Cedar Point Area Well Locations
 Contour Interval:

Cedar Point #13-12 Prospect

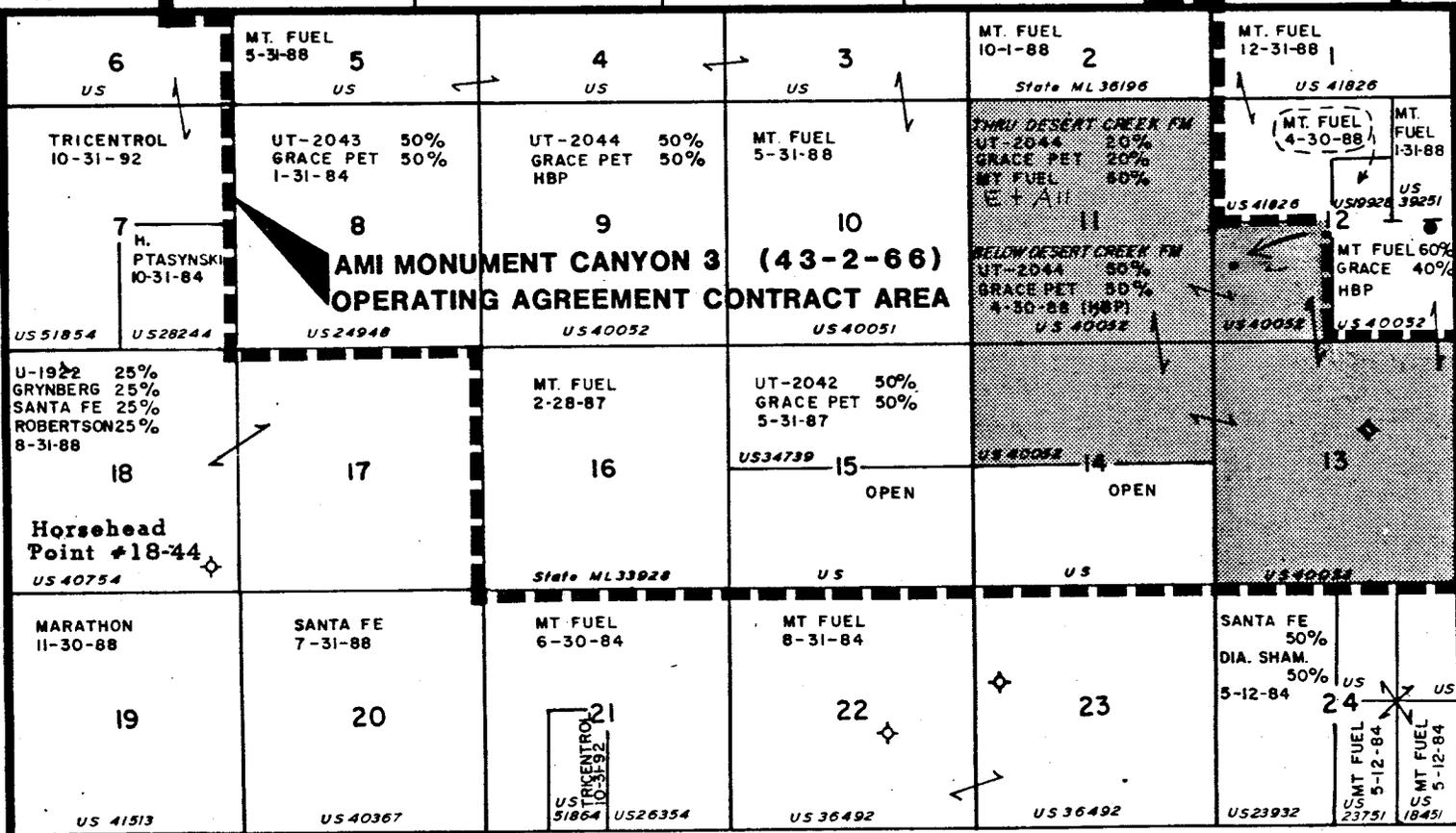
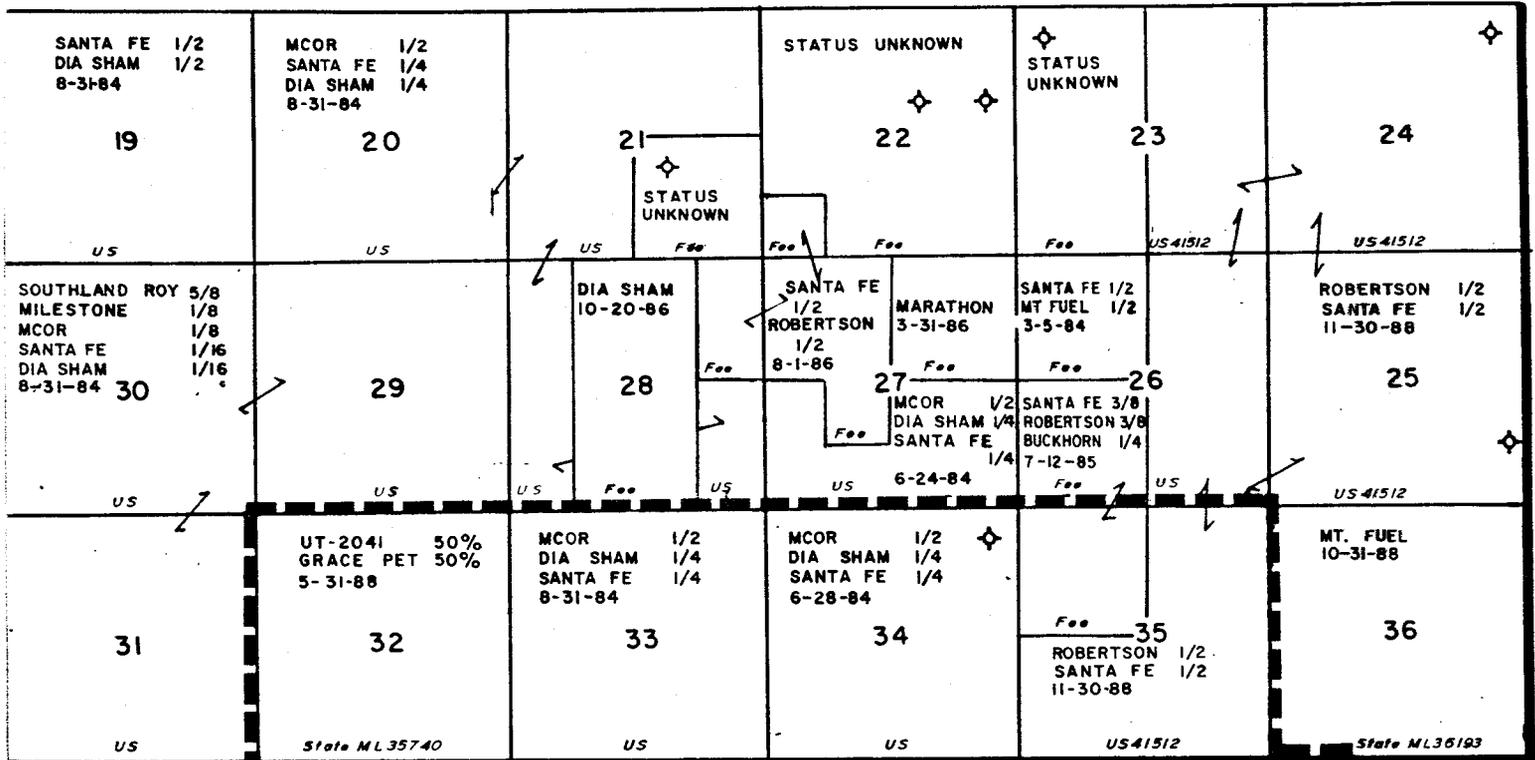
Mobil Oil Corporation

DENVER E&P DIVISION

County: San Juan Co.
 Geol.: J. M. Bauman
 Scale: 1" = 2000'

State: Utah
 Date: 8/21/85

T 35 S-R 25 E



T 36 S-R 25 E

RECEIVED

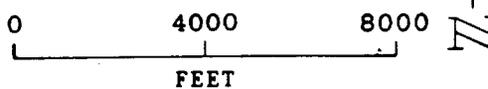
AUG 26 1985

DIVISION OF OIL
GAS & MINING

SUPERIOR OIL
DENVER EXPLORATION

MONUMENT CANYON SAN JUAN CO., UTAH OWNERSHIP MAP

 OPERATING AGREEMENT
MONUMENT CANYON 8
(WEXPRO OPERATOR)



MAP BASE	DATE	DRAFTED BY	DATE
DATA BY	DATE	FILE NO.	DATE
REVISED BY	DATE		

RAR 1-84 JBJ 1-84

EXHIBIT "A"

Attached to and made a part of that certain Operating Agreement dated May 30, 1983, by and between WEXPRO COMPANY, as Operator, GRACE PETROLEUM CORPORATION, THE SUPERIOR OIL COMPANY, et al., as Non-Operators.

I. CONTRACT AREA

This Operating Agreement shall cover and apply to:

San Juan County, Utah

Township 36 South, Range 25 East, SLM
Section 11: All Section 13 All
Section 12: SW/4 Section 14: N/2

This Agreement is limited to that interval from the surface of the ground to a depth of 100 feet below the stratigraphic equivalent of the total depth drilled in the Bug #1 Well located in the NE/4 SE/4 Section 12-T36S-R25E, SLM, San Juan County, Utah, and completed as an oil producer on February 13, 1980, at a total depth of 6,382 feet in the Desert Creek formation. The interval below this depth is subject to that Operating Agreement dated May 30, 1983, between The Superior Oil Company, as Operator, and Grace Petroleum Corporation, as Non-Operator.

II. SCHEDULE OF PARTICIPATION

	<u>From Surface to 6,382' or Stratigraphic Equivalent</u>
Celsius Energy Company	45.00%
Grace Petroleum Corporation	20.00%
The Superior Oil Company	20.00%
Prudential-Bache Energy Income	5.550886%
Production Partnership II P-4	5.333204%
Graham Royalties Ltd.	4.115910%
KOGO Partnership Drilling Fund 1979	<u>100.000000%</u>

III. ADDRESSES FOR NOTICE PURPOSES

Celsius Energy Company
79 South State Street
P.O. Box 11070
Salt Lake City, Utah 84147

Grace Petroleum Corporation
6401 North Parkway
Oklahoma City, Oklahoma 73116

The Superior Oil Company
P.O. Box 4500
The Woodlands, Texas 77380

KOGO Partnership Drilling Fund - 1979
1675 Larimer Street, Suite 500
Denver, Colorado 80202

Graham Royalties Ltd.
1675 Larimer Street, Suite 500
Denver, Colorado 80202

Prudential-Bache Energy Income
Production Partnership II P-4
1675 Larimer Street, Suite 500
Denver, Colorado 80202

OPERATOR Superior Oil Co. DATE 8-12-85

WELL NAME Cedar Point F-13-126

SEC NW SW 12 T 36S R 25E COUNTY San Juan

43 037-31184
API NUMBER

fed.
TYPE OF LEASE

CHECK OFF:

- PLAT
- BOND
- NEAREST WELL
- LEASE
- FIELD
- POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 1000'

Need water permit

Exception location

APPROVAL LETTER:

- SPACING: A-3 _____ UNIT c-3-a _____ CAUSE NO. & DATE
- c-3-b c-3-c

STIPULATIONS:

1 - water

2 - Exception location



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

August 14, 1985

Superior Oil Company
P. O. Box G
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Cedar Point F-13-12G - NW SW Sec. 12, T. 36S, R. 25E
1649' FSL, 688' FWL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 500 feet of the proposed location.

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

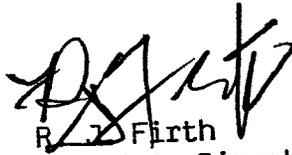
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2
Superior Oil
Well No. Cedar Point F-13-12G
August 14, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31184.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

Mobil Oil Corporation

P.O. BOX 5444
DENVER, COLORADO 80217

August 22, 1985

Utah Division of Oil Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake, Utah 84180-1230

RECEIVED

AUG 26 1985

SPACING 6300' DESERT CREEK TEST
SUPERIOR CEDAR POINT F-13-12G
SEC. 12-T36~~8~~-R25E
1648.6 FSL 687.6 FWL
SAN JUAN CO. UTAH
U-40052

Gentlemen: DIVISION OF OIL
GAS & MINING

The proposed well as currently staked is in an unorthodox location. The proposed location will be 687.6 from the section line and 328.6 from the South quarter quarter section boundary. The location was moved because of topographic considerations.

The acreage that will be affected by this location is held by Superior to the South. All mineral ownership within 660' of the proposed location is common with the ownership of the oil and gas lease under the proposed location. The well is also not closer than 1000' to an existing oil well or 4960' from any gas well.

Please review and approve the above listed exception location. If you have further questions please contact Craig Eggerman of our Denver office (303) 298-2346.

Sincerely,



R. D. Baker
Environmental/Regulatory Manager
Denver West Division

CNEggerman/sp
CNE8546

cc: B.L.M.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/13/85
BY: John R. Baker

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
AUG 22 1985

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

2. NAME OF OPERATOR
 Superior Oil Company, through its Agent, Mobil Oil Corp.

3. ADDRESS OF OPERATOR
 P. O. Drawer G, Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 1648.6' FSL, 687.6 FWL, Sec. 12, T36S, R25E, SLM
 At proposed prod. zone San Juan County, Utah
 Same as above (vertical hole)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 17.5 miles southwest of Dove Creek, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 991'

16. NO. OF ACRES IN LEASE 1920

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 6300

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6515.1' ungraded ground level

22. APPROX. DATE WORK WILL START*
 August 5, 1985

5. LEASE DESIGNATION AND SERIAL NO.
U40052

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Cedar Point

9. WELL NO.
F-13-12G

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12, T36S, R25E, SLM

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-5"	13-3/8"	54.5# K-55	80'	Cement to surface
12-1/4"	9-5/8"	36.0# K-55	1910'	Cement to surface
8-3/4"	5-1/2"	15.5# K-55	6300' TD	Cement from TD to + 4600'

Superior Oil, through its agent, Mobil Oil Corporation, proposes to drill the above-referenced well per attached drilling and surface development plan.

Please find attached a check for Seventy Dollars (\$70.00) for Right-of-Way fee for an off-lease road.

RECEIVED
Bureau of Land Management
JUL 31 1985

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 Clyde F. Benally TITLE Sr. Regulatory Coordinator DATE July 29, 1985
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE 20 AUG 1985
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
 SUBJECT TO RIGHT OF WAY APPROVAL
 *See Instructions On Reverse Side
 FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Superior Oil Company
Well No. Cedar Point F-13-12G
Sec. 12, T. 36 S., R. 25 E.
San Juan County, Utah
Lease U-40052

RECEIVED

AUG 22 1985

DIVISION OF OIL
GAS & MINING

CONDITIONS OF APPROVAL

A. DRILLING PROGRAM

1. All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.
2. The operator will contact the San Juan Resource Area at (801) 587-2201, 48 hours prior to beginning any dirt work on this location. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.
3. The spud date will be reported orally to the Area Office within a minimum of 24 hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within 24 hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.
4. In accordance with Onshore Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Area Office in accordance with requirements of NTL-3A.

5. If a replacement rig is needed for completion operations, A Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations verbal approval to bring on a replacement rig will be approved through the District Office.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads:

An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

2. Planned Access Roads:

Where the access deviates from the existing trail, trees or rocks will be pushed into unused portions of the trail to block vehicle access.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Tank Batteries and Production Facilities:

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1 1/2 times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

4. Other Information:

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

5. Archaeological Stipulations:

For protection of archaeological values; the site south of drill location (42SA17066) will be fenced, the site on the west of the location (42SA17078) will be flagged for avoidance, the site on the north of the location (42SA17067) will be flagged for avoidance, and the first site along the access (42SA 17069) will be avoided by following the flagged route. Fencing and flagging will be done prior to construction.

Resource Area Manager's address and contacts:

Address: P.O. Box 7, Monticello, UT 84535

Your contact is: Rich McClure

Office Phone: (801) 587-2201

Home Phone: (801) 587-2874

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

OIL WELL GAS WELL OTHER Capping of Access Road

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORP.

3. ADDRESS OF OPERATOR
P. O. DRAWER G, CORTEZ, CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1648.6 FSL, 687.6 FWL

14. PERMIT NO.
43-037-31184

15. ELEVATIONS (Show whether OIL, GAS, OR MINING)
6515.1' ungraded ground

RECEIVED

OCT 17 1985

DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U40052

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
CEDAR POINT

9. WELL NO.
F-13-12G

10. FIELD AND POOL, OR WILDCAT
WILDCAT

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

Sec. 12, T36S, R25E, SLM

12. COUNTY OR PARISH | 13. STATE
SAN JUAN | UTAH

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

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 type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other) Capping of Access Road			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<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.)*

Mobil Oil Corporation, Agent for Superior Oil Company, proposes to cap the access road to the above-referenced well. The wet and muddy conditions have caused Mobil to take this action.

The capping material will be obtained from a private gravel pit owned and operated by Mr. W. C. Turner. The gravel pit is located in Section 6, T36S, R26E, SLM and in San Juan County, Utah

This Sundry is to confirm verbal notification made on the morning of October 14, 1985.

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

SIGNED C. J. Benally TITLE Sr. Regulatory Coordinator DATE 10/14/85

(This space for Federal or State office use)

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

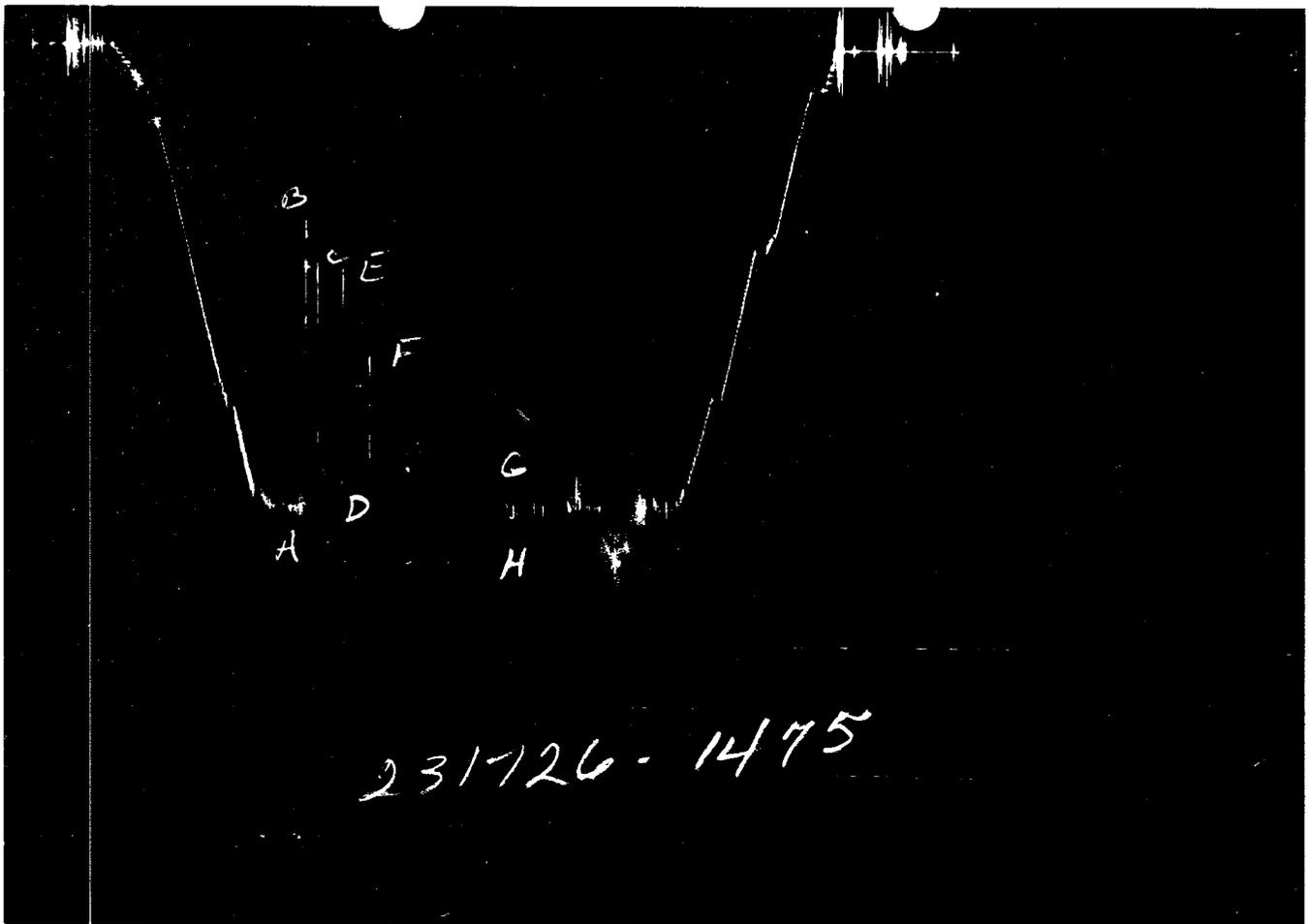
*See Instructions on Reverse Side



TICKET NO. 23172600
 15-NOV-85
 FARMINGTON

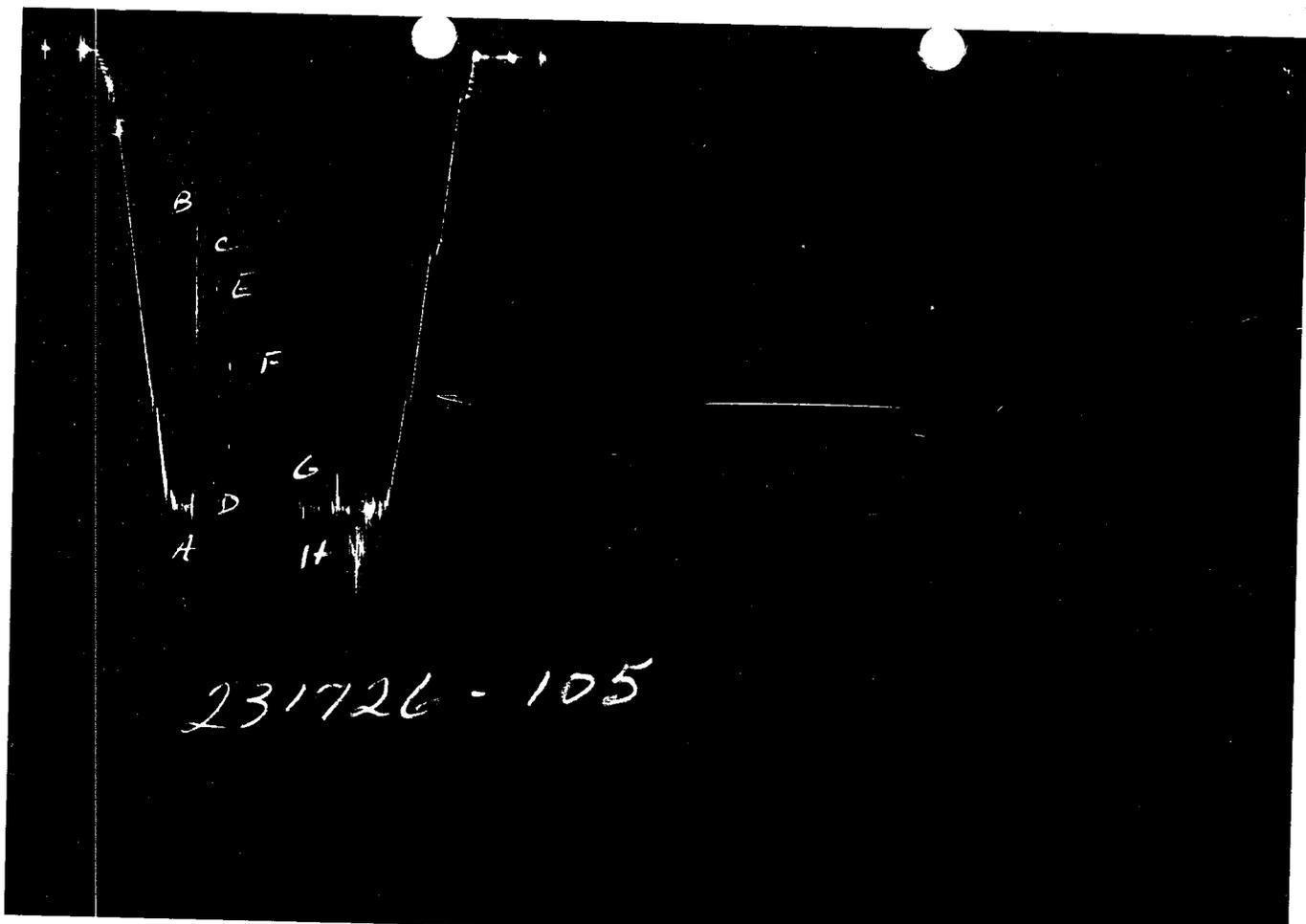
FORMATION TESTING SERVICE REPORT

LEGAL LOCATION SEC. - TWP. - RNG.	12-36S-25E	FIELD AREA	WILDCAT	COUNTY	SAN JUAN	STATE	UTAH	IC	
LEASE NAME	CEEDAR POINT	WELL NO.	F13-12G	TEST NO.	1	TESTED INTERVAL	6233.0 - 6274.0	LEASE OWNER/COMPANY NAME	MOBIL OIL CORPORATION



GAUGE NO: 1475 DEPTH: 6206.0 BLANKED OFF: NO HOUR OF CLOCK: 24

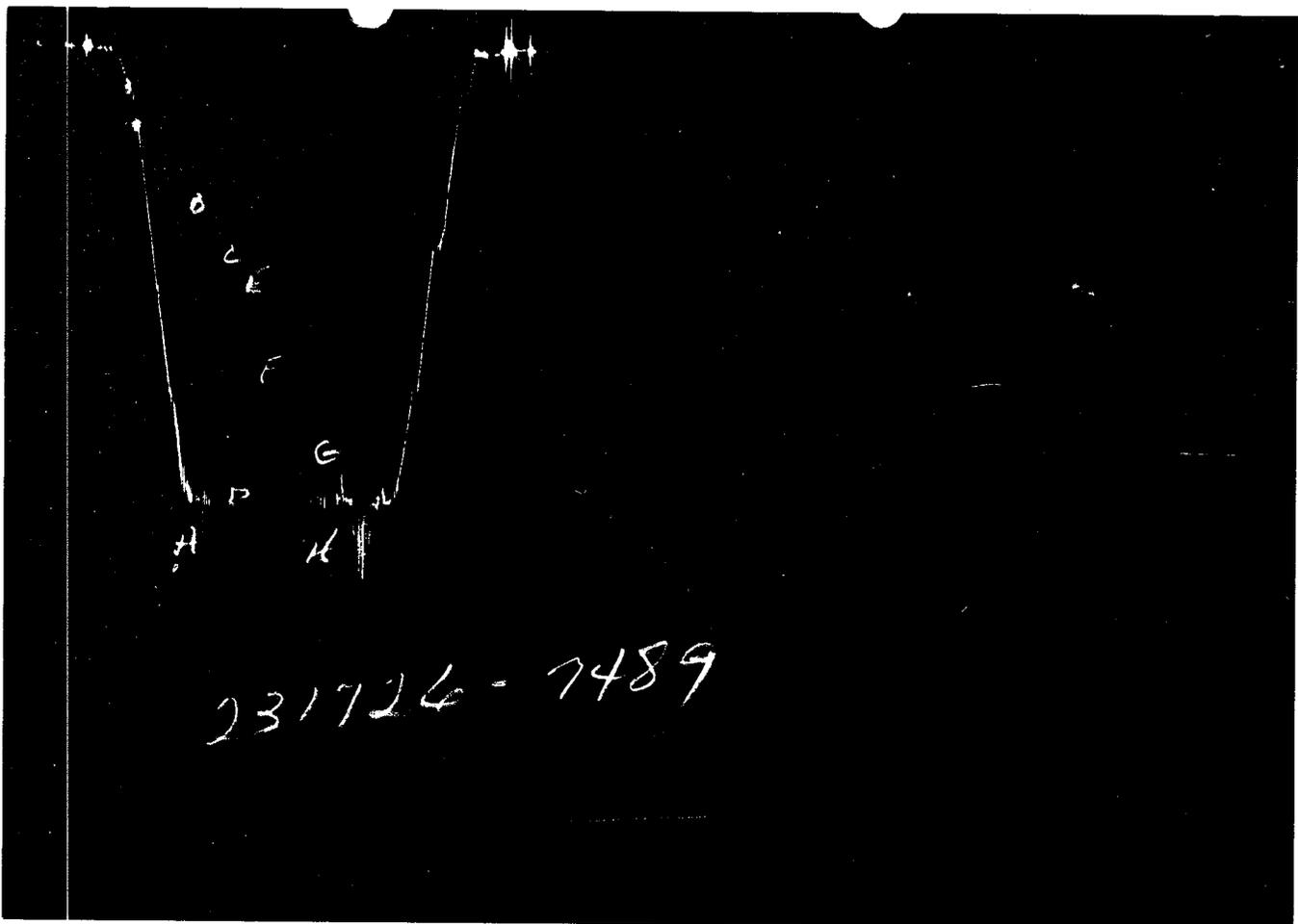
IC	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3809	3796.6			
B	INITIAL FIRST FLOW	1384	1399.6			
C	FINAL FIRST FLOW	1762	1817.7	15.0	14.3	F
C	INITIAL FIRST CLOSED-IN	1762	1817.7			
D	FINAL FIRST CLOSED-IN	3577	3587.2	30.0	30.3	C
E	INITIAL SECOND FLOW	1867	1895.3			
F	FINAL SECOND FLOW	2521	2597.8	30.0	32.6	F
F	INITIAL SECOND CLOSED-IN	2521	2597.8			
G	FINAL SECOND CLOSED-IN	3598	3622.1	165.0	162.8	C
H	FINAL HYDROSTATIC	4211	3788.6			



231726 - 105

GAUGE NO: 105 DEPTH: 6211.0 BLANKED OFF: NO HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3815	3800.6			
B	INITIAL FIRST FLOW	1346	1367.3			
C	FINAL FIRST FLOW	1871	1871.0	15.0	14.3	F
C	INITIAL FIRST CLOSED-IN	1871	1871.0			
D	FINAL FIRST CLOSED-IN	3582	3586.3	30.0	30.3	C
E	INITIAL SECOND FLOW	1892	1905.2			
F	FINAL SECOND FLOW	2103	2583.7	30.0	32.6	F
F	INITIAL SECOND CLOSED-IN	2103	2583.7			
G	FINAL SECOND CLOSED-IN	3582	3623.7	165.0	162.8	C
H	FINAL HYDROSTATIC	3815	3789.6			



231724-7489

GAUGE NO: 7489 DEPTH: 6271.0 BLANKED OFF: YES HOUR OF CLOCK: 48

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3884	3821.2			
B	INITIAL FIRST FLOW	1390	1417.9			
C	FINAL FIRST FLOW	1842	1868.8	15.0	14.3	F
C	INITIAL FIRST CLOSED-IN	1842	1868.8			
D	FINAL FIRST CLOSED-IN	3605	3610.8	30.0	30.3	C
E	INITIAL SECOND FLOW	1950	1937.1			
F	FINAL SECOND FLOW	2165	2625.7	30.0	32.6	F
F	INITIAL SECOND CLOSED-IN	2165	2625.7			
G	FINAL SECOND CLOSED-IN	3665	3651.3	165.0	162.8	C
H	FINAL HYDROSTATIC	3884	3809.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: DESERT CREEK
 NET PAY (ft): 18.0
 GROSS TESTED FOOTAGE: 41.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 8.750
 ELEVATION (ft): _____
 TOTAL DEPTH (ft): 6274.0
 PACKER DEPTH(S) (ft): 6227. 6233
 FINAL SURFACE CHOKE (in): 0.12500 .25 .50
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 11.60
 MUD VISCOSITY (sec): 37
 ESTIMATED HOLE TEMP. (°F): 127
 ACTUAL HOLE TEMP. (°F): 134 @ 6274.0 ft

TICKET NUMBER: 23172600
 DATE: 11-11-85 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP:
FARMINGTON
 TESTER: GENE ROBERTS
 WITNESS: G. D. WEST
 DRILLING CONTRACTOR:
ENERGY SEARCH #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>SAMPLER</u>	<u>0.030 @ 170 °F</u>	<u>_____ ppm</u>
_____	<u>_____ @ _____ °F</u>	<u>_____ ppm</u>
_____	<u>_____ @ _____ °F</u>	<u>_____ ppm</u>
_____	<u>_____ @ _____ °F</u>	<u>_____ ppm</u>
_____	<u>_____ @ _____ °F</u>	<u>_____ ppm</u>
_____	<u>_____ @ _____ °F</u>	<u>_____ ppm</u>

SAMPLER DATA

Pstg AT SURFACE: 1900.0
 cu.ft. OF GAS: 4.340
 cc OF OIL: 500.0
 cc OF WATER: 1300.0
 cc OF MUD: _____
 TOTAL LIQUID cc: 1800.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 47.0 @ 60°F
 GAS/OIL RATIO (cu.ft. per bbl): 1378
 GAS GRAVITY: 0.650

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED:

20.5 BARRELS OF SALTWATER
 37.5 BARRELS OF HEAVY GAS CUT OIL

MEASURED FROM
 TESTER VALVE

REMARKS:

THE RESISTIVITY OF THE SAMPLE IN THE SAMPLER WAS DETERMINED AT 170 DEGREES F. DUE TO THE CRYSTALLIZATION OF THE SALT.

TYPE & SIZE MEASURING DEVICE: _____					TICKET NO: 23172600
TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
11-11-85					
0140					ON LOCATION
0700					PICKED UP AND MADE UP TOOL
0930					TRIPPED IN HOLE WITH TOOLS
1320	.125" BH				OPENED TOOL WITH STRONG BLOW TO BOTTOM OF BUCKET
1322	.25	150			SWITCHED TO FLOOR MANIFOLD
1324		250			PSI INCREASING
1325		300			GAS TO SURFACE
1326		320			
1328		380			
1330		420			
1332		460			
1335		590			CLOSED TOOL - BLEED PRESSURE OFF 1/4" CHOKE - FLARING AT PIT
1405	.25	600			OPENED TOOL
1407	.50	625			CHANGED CHOKE
1411		425			FLUID TO SURFACE (WATER)
1421		500			FLOWING OIL AND WATER
1424		500			CLOSED CHOKE AND SWITCHED TO FLOW TANK
1425	.25	550			OPENED BACK UP ON .25" CHOKE
1435		680			CLOSED TOOL - BLEED OFF .25" CHOKE
1720					OPENED BYPASS - WAITED FOR PSI TO BLEED OFF
1830					REVERSED OUT
2036					TRIPPED OUT OF HOLE
11-12-85					
0100					BROKE DOWN AND LOADED TOOL UP
0315					JOB COMPLETED

TICKET NO: 23172600

CLOCK NO: 14128 HOUR: 24



GAUGE NO: 1475

DEPTH: 6206.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	1399.6			
2	2.0	1415.1	15.6		
3	4.0	1369.8	-45.4		
4	6.0	1423.5	53.7		
5	8.0	1525.5	102.0		
6	10.0	1619.8	94.4		
7	12.0	1714.2	94.4		
C 8	14.3	1817.7	103.4		
FIRST CLOSED-IN					
C 1	0.0	1817.7			
2	1.0	3299.1	1481.4	0.9	1.180
3	2.0	3365.8	1548.2	1.8	0.912
4	3.0	3409.1	1591.4	2.5	0.760
5	4.0	3436.6	1619.0	3.1	0.661
6	5.0	3459.3	1641.7	3.7	0.584
7	6.0	3473.5	1655.9	4.2	0.532
8	7.0	3487.9	1670.3	4.7	0.483
9	8.0	3498.1	1680.5	5.1	0.446
10	9.0	3507.9	1690.2	5.5	0.413
11	10.0	3517.0	1699.3	5.9	0.386
12	12.0	3529.1	1711.4	6.5	0.342
13	14.0	3540.5	1722.9	7.1	0.306
14	16.0	3549.6	1732.0	7.6	0.277
15	18.0	3557.9	1740.2	8.0	0.255
16	20.0	3564.7	1747.0	8.4	0.235
17	22.0	3570.2	1752.5	8.7	0.218
18	24.0	3575.7	1758.1	9.0	0.204
19	26.0	3580.8	1763.1	9.2	0.191
20	28.0	3584.6	1767.0	9.5	0.180
D 21	30.3	3587.2	1769.5	9.7	0.169
SECOND FLOW					
E 1	0.0	1895.3			
2	2.0	1906.5	11.2		
3	4.0	1910.9	4.4		
4	6.0	1886.1	-24.9		
5	8.0	1902.7	16.7		
6	10.0	1951.0	48.3		
7	12.0	1995.9	44.9		
8	14.0	2043.8	47.9		
9	16.0	2077.0	33.2		
10	18.0	2101.4	24.4		
11	19.6	2117.1	15.7		
12	20.0	2144.0	26.9		
13	22.0	2216.6	72.6		
14	24.0	2301.7	85.1		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
15	26.0	2377.5	75.8		
16	28.0	2445.7	68.2		
17	30.0	2510.5	64.8		
F 18	32.6	2597.8	87.3		
SECOND CLOSED-IN					
F 1	0.0	2597.8			
2	1.0	3372.0	774.2	1.0	1.674
3	2.0	3399.6	801.8	1.9	1.388
4	3.0	3416.7	819.0	2.8	1.227
5	4.0	3431.6	833.8	3.7	1.108
6	5.0	3445.8	848.0	4.6	1.013
7	6.0	3456.4	858.6	5.3	0.945
8	7.0	3464.3	866.5	6.1	0.886
9	8.0	3471.9	874.1	6.8	0.836
10	9.0	3480.2	882.4	7.6	0.792
11	10.0	3485.3	887.5	8.2	0.756
12	12.0	3498.7	900.9	9.6	0.691
13	14.0	3507.2	909.4	10.8	0.638
14	16.0	3514.8	917.0	11.9	0.595
15	18.0	3521.4	923.6	13.0	0.557
16	20.0	3528.0	930.2	14.0	0.525
17	22.0	3532.6	934.8	15.0	0.496
18	24.0	3538.1	940.3	15.9	0.470
19	26.0	3541.7	944.0	16.7	0.447
20	28.0	3546.6	948.8	17.5	0.428
21	30.0	3549.8	952.0	18.3	0.409
22	35.0	3558.3	960.5	20.1	0.369
23	40.0	3565.9	968.2	21.6	0.337
24	45.0	3571.2	973.5	23.0	0.310
25	50.0	3576.5	978.8	24.2	0.287
26	55.0	3580.8	983.0	25.3	0.268
27	60.1	3585.9	988.1	26.3	0.251
28	70.0	3591.8	994.0	28.1	0.223
29	80.0	3597.5	999.8	29.6	0.200
30	90.0	3602.2	1004.4	30.8	0.182
31	100.0	3606.0	1008.2	31.9	0.167
32	110.0	3609.2	1011.4	32.9	0.154
33	120.0	3612.6	1014.8	33.7	0.143
34	135.0	3615.6	1017.8	34.8	0.130
35	150.0	3618.7	1021.0	35.7	0.118
G 36	162.8	3622.1	1024.4	36.4	0.110

LEGEND:
 1 CHOKE CHANGE

REMARKS:

TICKET NO: 23172600

CLOCK NO: 13225 HOUR: 48



GAUGE NO: 105

DEPTH: 6211.0

REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$	REF	MINUTES	PRESSURE	ΔP	$\frac{1 \times \Delta t}{1 + \Delta t}$	$\log \frac{1 + \Delta t}{\Delta t}$		
FIRST FLOW						SECOND FLOW - CONTINUED							
B	1	0.0	1367.3			15	26.0	2413.6	73.3				
	2	2.0	1371.5	4.2		16	28.0	2486.9	73.3				
	3	4.0	1388.3	16.9		17	30.0	2541.1	54.2				
	4	6.0	1453.2	64.9		F	18	32.6	2583.7	42.6			
	5	8.0	1562.3	109.1		SECOND CLOSED-IN							
	6	10.0	1650.2	87.9		F	1	0.0	2583.7				
	7	12.0	1776.2	126.0			2	1.0	3530.3	946.7	1.0	1.687	
C	8	14.3	1871.0	94.8			3	2.0	3532.2	948.6	1.9	1.382	
FIRST CLOSED-IN							4	3.0	3533.7	950.1	2.8	1.227	
C	1	0.0	1871.0				5	4.0	3535.0	951.3	3.7	1.105	
	2	1.0	3567.6	1696.6	0.9	1.184		6	5.0	3535.6	952.0	4.5	1.017
	3	2.0	3569.9	1698.9	1.7	0.922		7	6.0	3536.5	952.8	5.3	0.943
	4	3.0	3572.2	1701.2	2.5	0.760		8	7.0	3537.1	953.5	6.1	0.889
	5	4.0	3573.1	1702.1	3.1	0.665		9	8.0	3537.8	954.1	6.8	0.836
	6	5.0	3574.6	1703.6	3.7	0.586		10	9.0	3538.0	954.3	7.6	0.791
	7	6.0	3575.0	1704.0	4.2	0.529		11	10.0	3538.0	954.3	8.2	0.756
	8	7.0	3575.8	1704.9	4.7	0.483		12	12.0	3538.8	955.2	9.6	0.691
	9	8.0	3576.3	1705.3	5.2	0.445		13	14.0	3539.0	955.4	10.8	0.639
	10	9.0	3576.9	1705.9	5.5	0.413		14	16.0	3539.7	956.0	11.9	0.595
	11	9.9	3577.3	1706.3	5.9	0.388		15	18.0	3539.7	956.0	13.0	0.557
	12	12.0	3578.0	1707.0	6.5	0.342		16	20.0	3539.7	956.0	14.0	0.524
	13	14.0	3578.4	1707.4	7.1	0.306		17	22.0	3542.0	958.4	15.0	0.496
	14	16.0	3578.6	1707.6	7.6	0.279		18	24.0	3544.1	960.5	15.9	0.470
	15	18.0	3579.0	1708.0	8.0	0.255		19	26.0	3546.1	962.4	16.7	0.447
	16	20.0	3579.7	1708.7	8.3	0.235		20	28.0	3548.2	964.5	17.5	0.428
	17	22.0	3579.9	1708.9	8.7	0.218		21	30.0	3550.9	967.3	18.3	0.409
	18	24.0	3580.5	1709.5	9.0	0.204		22	35.0	3557.8	974.1	20.0	0.370
	19	26.0	3581.2	1710.2	9.2	0.191		23	40.0	3565.2	981.5	21.6	0.337
	20	28.0	3582.6	1711.6	9.5	0.180		24	45.0	3571.6	987.9	23.0	0.310
D	21	30.3	3586.3	1715.3	9.7	0.169		25	50.0	3576.5	992.8	24.2	0.287
SECOND FLOW							26	55.0	3581.8	998.1	25.3	0.268	
E	1	0.0	1905.2				27	60.0	3585.8	1002.2	26.3	0.251	
	2	2.0	1912.1	7.0			28	70.0	3593.3	1009.6	28.1	0.223	
	3	4.0	1902.2	-9.9			29	80.0	3598.6	1014.9	29.6	0.200	
	4	6.0	1885.4	-16.8			30	90.0	3603.7	1020.0	30.8	0.182	
	5	8.0	1920.8	35.4			31	100.0	3607.3	1023.6	31.9	0.167	
	6	10.0	1970.2	49.4			32	110.0	3610.7	1027.0	32.9	0.154	
	7	12.0	2013.9	43.7			33	120.0	3614.1	1030.4	33.7	0.143	
	8	14.0	2056.1	42.1			34	135.0	3618.3	1034.7	34.8	0.130	
	9	16.0	2085.9	29.9			35	150.0	3621.1	1037.4	35.7	0.118	
	10	18.0	2102.2	16.3			G	36	162.8	3623.7	1040.0	36.4	0.110
1	11	19.6	2112.2	10.0									
	12	20.0	2133.2	21.0									
	13	22.0	2250.3	117.1									
	14	24.0	2340.3	90.0									

LEGEND:

1 CHOKE CHANGE

REMARKS:

INCREMENTAL READINGS FOR THE FIRST PORTION OF THE CLOSED IN PRESSURE PERIODS ARE SOMEWHAT QUESTIONABLE DUE TO ERRATIC GAUGE BEHAVIOR.

TICKET NO: 23172600

CLOCK NO: 18775 HOUR: 48



GAUGE NO: 7489

DEPTH: 6271.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	1417.9			
2	2.0	1445.2	27.3		
3	4.0	1477.0	31.8		
4	6.0	1551.1	74.1		
5	8.0	1632.7	81.7		
6	10.0	1705.7	73.0		
7	12.0	1793.2	87.5		
C 8	14.3	1868.8	75.6		
FIRST CLOSED-IN					
C 1	0.0	1868.8			
2	1.0	3330.4	1461.6	1.0	1.170
3	2.0	3416.7	1547.9	1.8	0.910
4	3.0	3451.4	1582.6	2.5	0.764
5	4.0	3472.1	1603.3	3.1	0.659
6	5.0	3491.3	1622.5	3.7	0.588
7	6.0	3506.0	1637.1	4.2	0.532
8	7.0	3516.7	1647.9	4.7	0.484
9	8.0	3526.7	1657.8	5.1	0.447
10	9.0	3535.7	1666.9	5.5	0.415
11	10.0	3542.8	1674.0	5.9	0.386
12	12.1	3554.7	1685.9	6.6	0.340
13	14.0	3564.6	1695.8	7.1	0.306
14	16.0	3572.6	1703.8	7.6	0.277
15	18.0	3579.9	1711.1	8.0	0.255
16	20.0	3587.0	1718.2	8.4	0.235
17	22.0	3593.3	1724.5	8.7	0.218
18	24.0	3597.6	1728.8	9.0	0.203
19	26.0	3601.9	1733.1	9.2	0.191
20	28.0	3605.6	1736.8	9.5	0.180
D 21	30.3	3610.8	1741.9	9.7	0.169
SECOND FLOW					
E 1	0.0	1937.1			
2	2.0	1944.2	7.2		
3	4.0	1957.0	12.8		
4	6.0	1928.7	-28.4		
5	8.0	1941.3	12.6		
6	10.0	1998.3	57.0		
7	12.0	2038.6	40.3		
8	14.0	2084.2	45.7		
9	16.0	2121.3	37.0		
10	18.0	2142.5	21.2		
11	19.6	2155.3	12.8		
12	20.0	2191.6	36.4		
13	22.0	2270.2	78.6		
14	24.0	2365.7	95.5		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW - CONTINUED					
15	26.0	2442.1	76.4		
16	28.0	2518.5	76.4		
17	30.0	2576.6	58.0		
F 18	32.6	2625.7	49.1		
SECOND CLOSED-IN					
F 1	0.0	2625.7			
2	1.1	3431.5	805.7	1.0	1.657
3	2.0	3446.6	820.9	1.9	1.390
4	3.0	3462.3	836.6	2.9	1.215
5	4.0	3477.5	851.8	3.7	1.100
6	5.0	3486.8	861.0	4.5	1.013
7	6.0	3493.7	868.0	5.3	0.943
8	7.0	3502.5	876.8	6.1	0.885
9	8.0	3509.7	883.9	6.9	0.835
10	9.0	3515.3	889.6	7.5	0.795
11	10.0	3520.7	895.0	8.2	0.757
12	12.0	3533.0	907.3	9.6	0.691
13	14.0	3541.0	915.3	10.8	0.639
14	16.0	3546.6	920.9	11.9	0.595
15	18.0	3552.7	926.9	13.0	0.557
16	20.0	3558.5	932.8	14.0	0.525
17	22.0	3563.7	938.0	15.0	0.496
18	24.0	3568.4	942.7	15.9	0.470
19	26.0	3573.0	947.2	16.7	0.448
20	28.0	3577.1	951.3	17.5	0.427
21	30.0	3580.5	954.8	18.3	0.409
22	35.0	3590.7	965.0	20.1	0.369
23	40.0	3597.2	971.4	21.6	0.337
24	45.0	3603.2	977.5	23.0	0.310
25	50.0	3608.6	982.9	24.2	0.287
26	55.0	3612.9	987.2	25.3	0.268
27	60.0	3616.6	990.9	26.3	0.251
28	70.0	3623.3	997.6	28.1	0.223
29	80.0	3628.7	1002.9	29.6	0.200
30	90.0	3633.4	1007.7	30.8	0.182
31	100.0	3637.5	1011.8	31.9	0.167
32	110.0	3641.4	1015.7	32.9	0.154
33	120.0	3643.3	1017.6	33.7	0.143
34	135.0	3646.3	1020.6	34.8	0.130
35	150.0	3648.7	1023.0	35.7	0.118
G 36	162.8	3651.3	1025.6	36.4	0.110

LEGEND:
 CHOKE CHANGE

REMARKS:

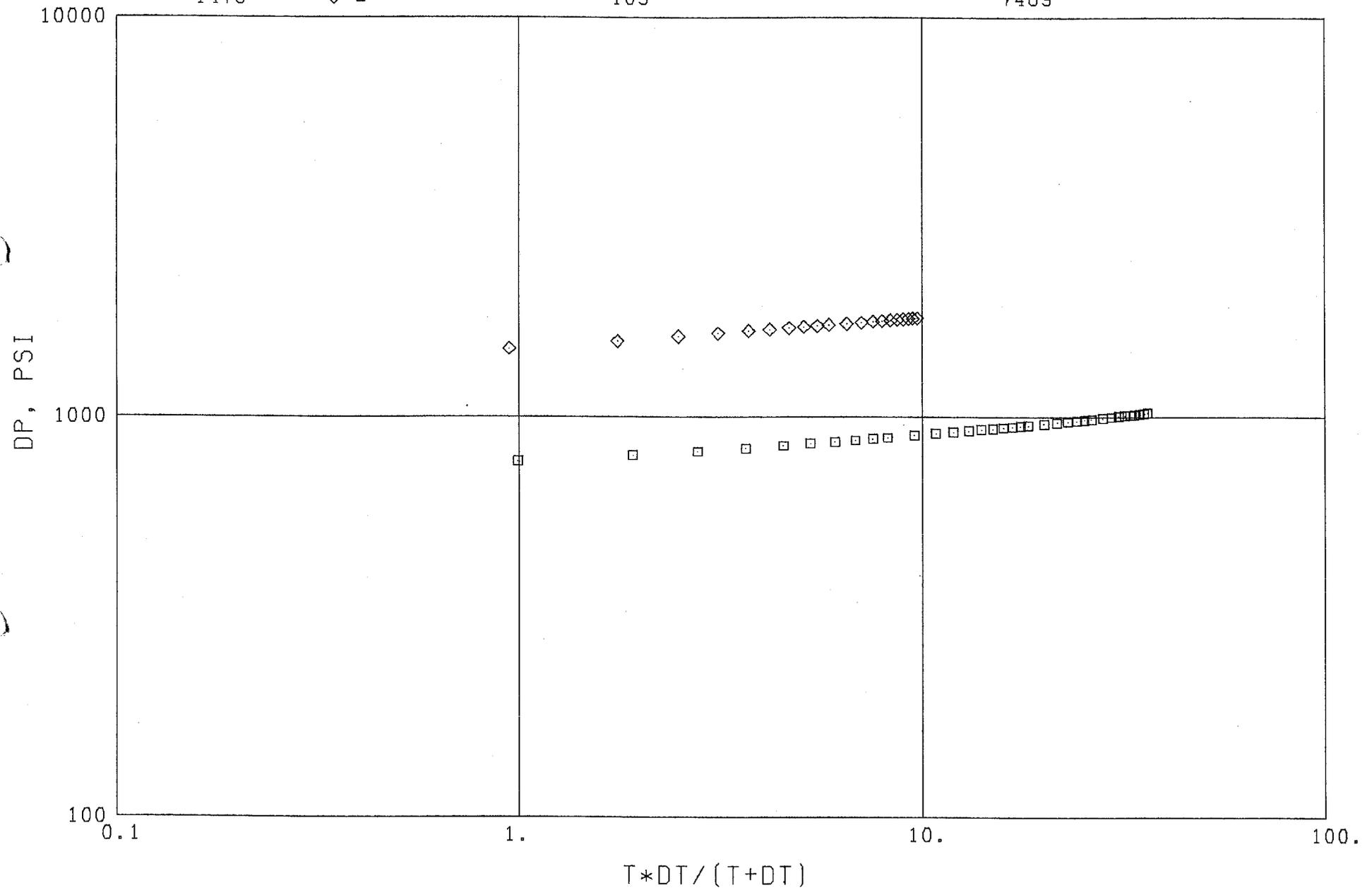
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	5720.0	
3		DRILL COLLARS.....	6.250	2.250	350.0	
51		PUMP OUT REVERSING SUB.....	6.000	3.000	1.0	6070.0
3		DRILL COLLARS.....	6.250	2.250	60.0	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	6131.0
3		DRILL COLLARS.....	6.250	2.250	60.0	
5		CROSSOVER.....	6.000	3.000	1.0	
13		DUAL CIP SAMPLER.....	5.030	0.870	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	6204.0
80		AP RUNNING CASE.....	5.000	2.250	5.0	6206.0
80		AP RUNNING CASE.....	5.000	2.250	5.0	6211.0
15		JAR.....	5.030	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	6227.0
70		OPEN HOLE PACKER.....	7.750	1.530	6.0	6233.0
20		FLUSH JOINT ANCHOR.....	5.750	3.000	35.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	6271.0
TOTAL DEPTH						6274.0

EQUIPMENT DATA

GAUGE NO 1475 CIP 1 2
◇ □

GAUGE NO 105 CIP 1 2

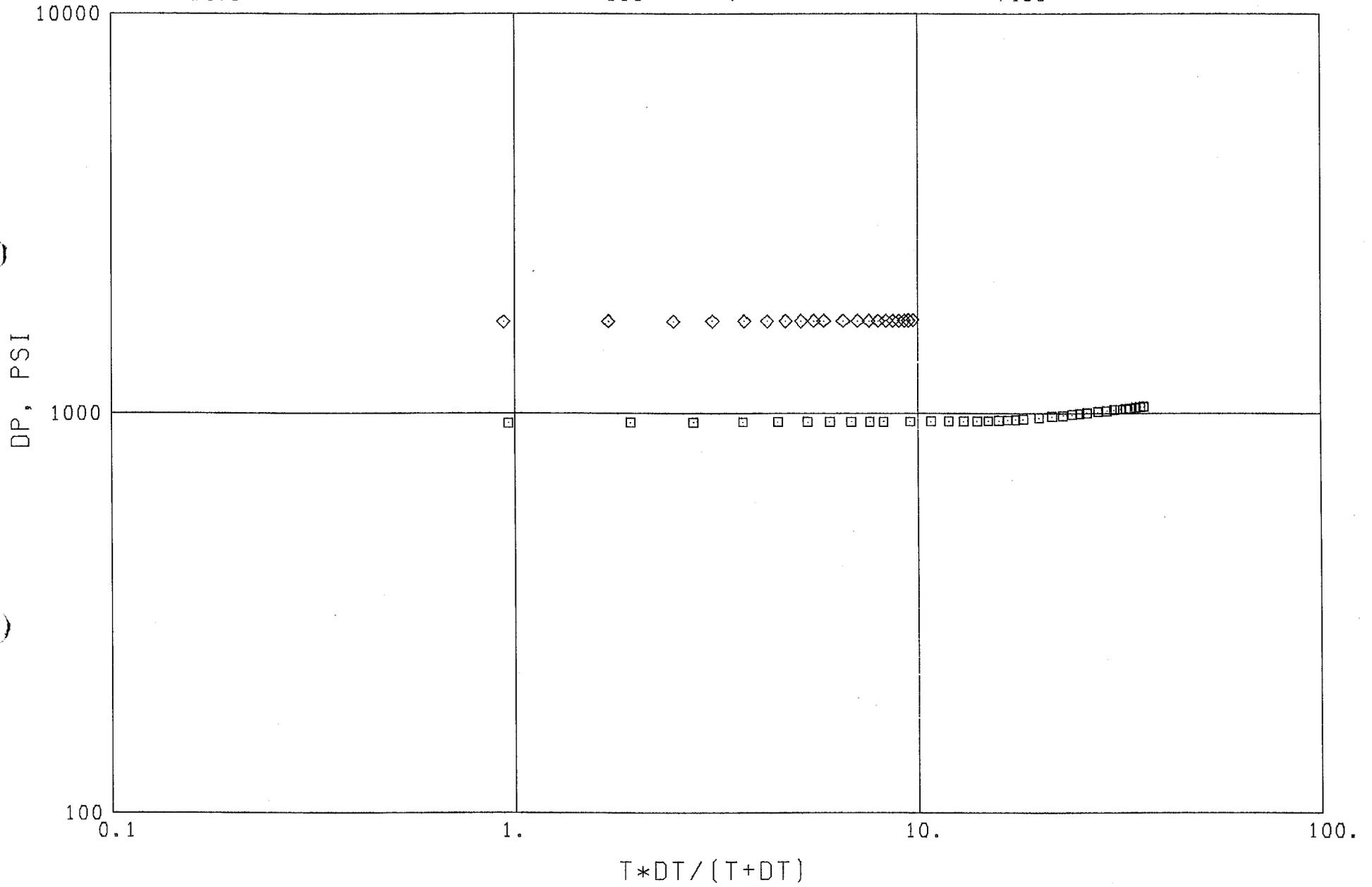
GAUGE NO 7489 CIP 1 2



GAUGE NO CIP 1 2
1475

GAUGE NO CIP 1 2
105 \diamond \square

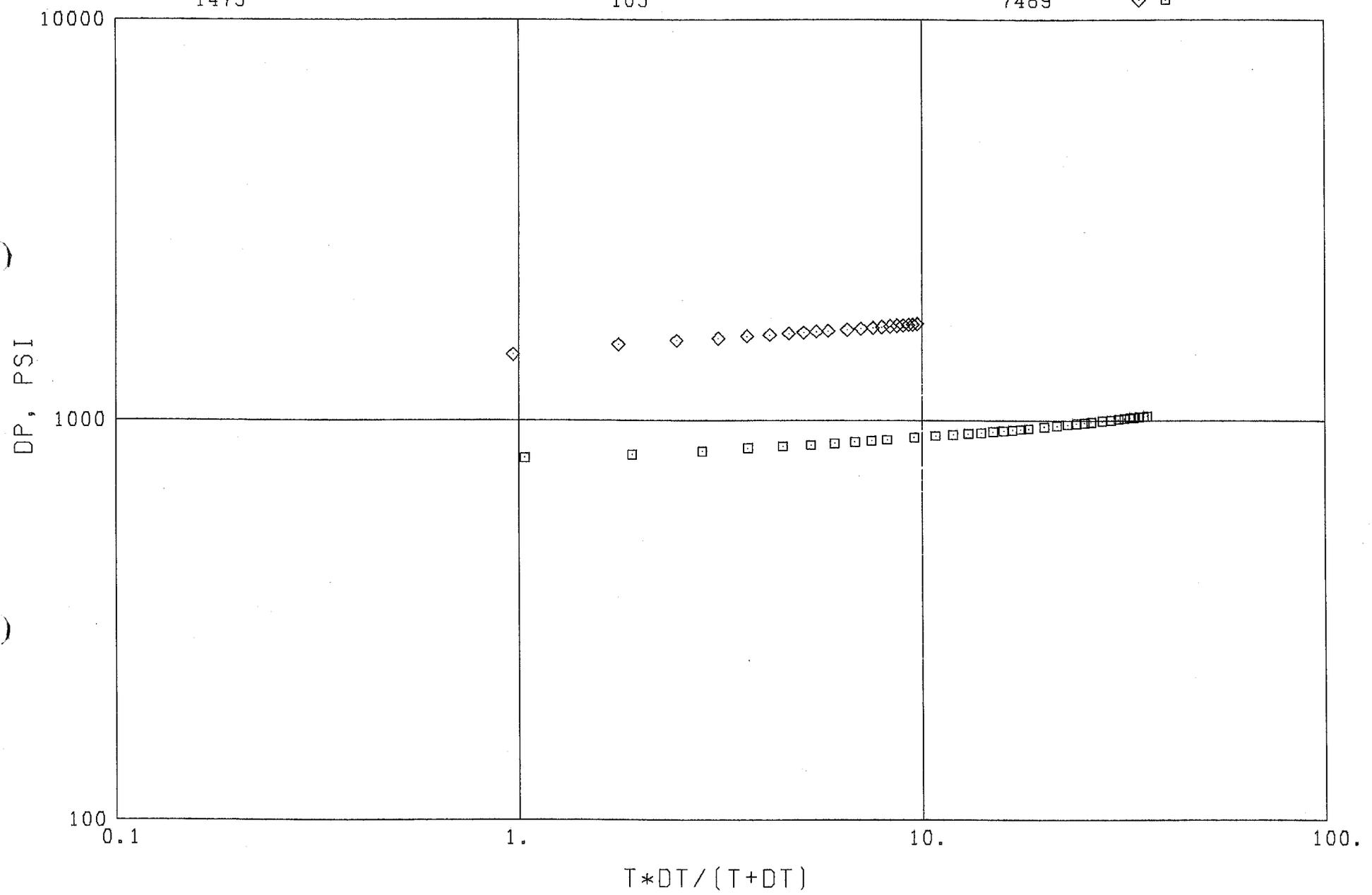
GAUGE NO CIP 1 2
7489



GAUGE NO CIP 1 2
1475

GAUGE NO CIP 1 2
105

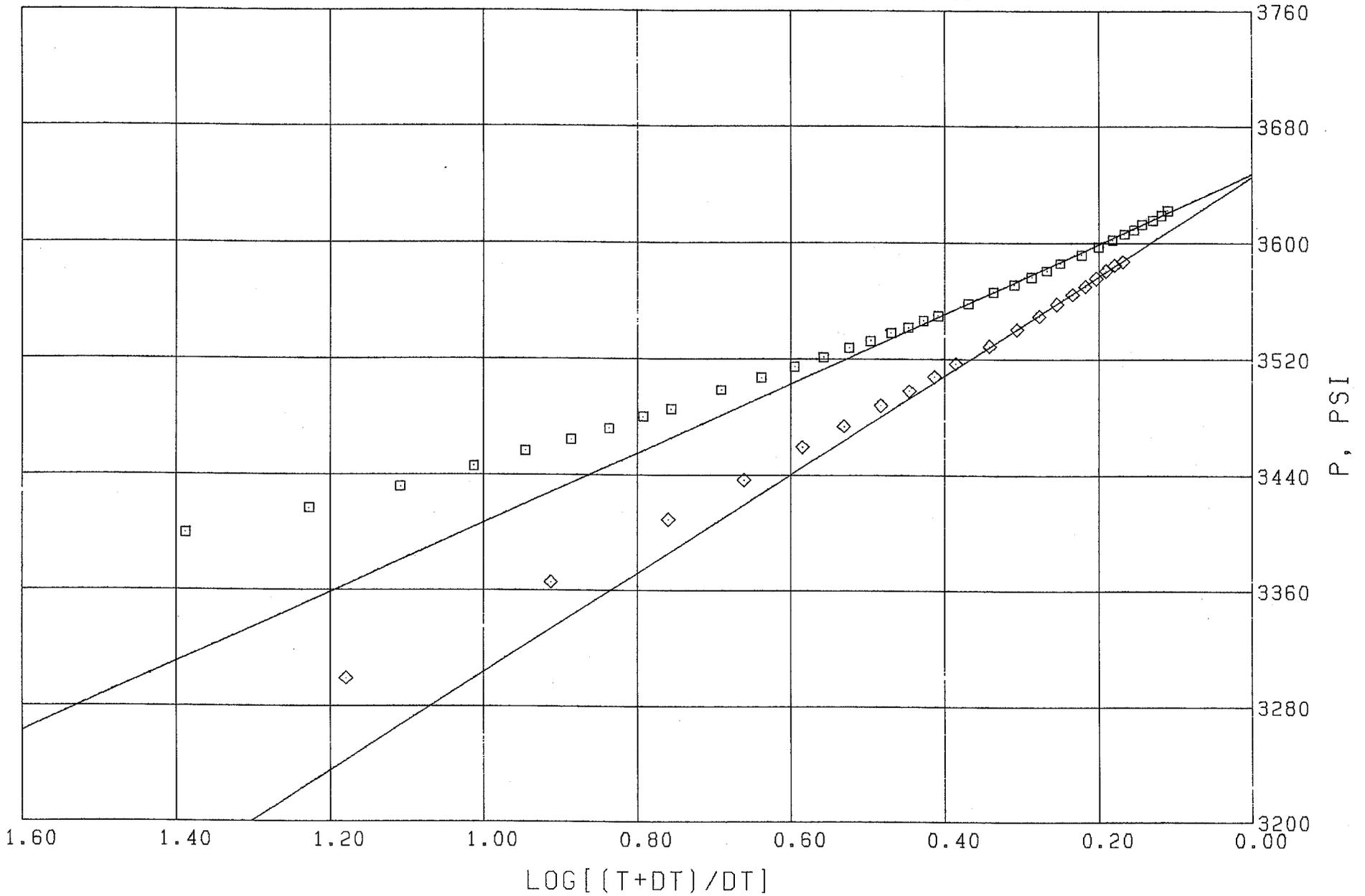
GAUGE NO CIP 1 2
7489



GAUGE NO 1475 CIP 1 2
◇ □

GAUGE NO 105 CIP 1 2

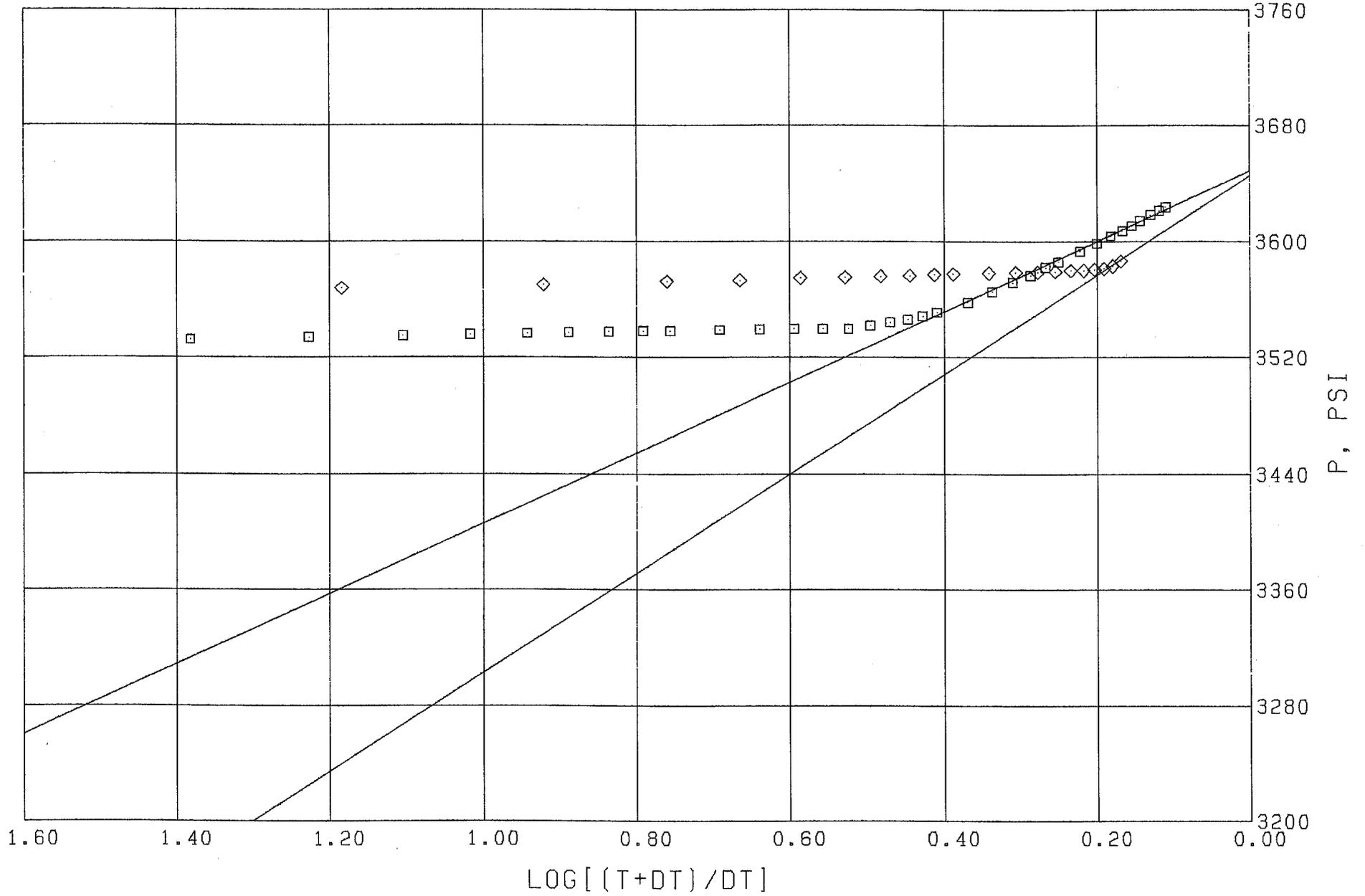
GAUGE NO 7489 CIP 1 2



GAUGE NO CIP 1 2
1475

GAUGE NO CIP 1 2
105 \diamond \square

GAUGE NO CIP 1 2
7489

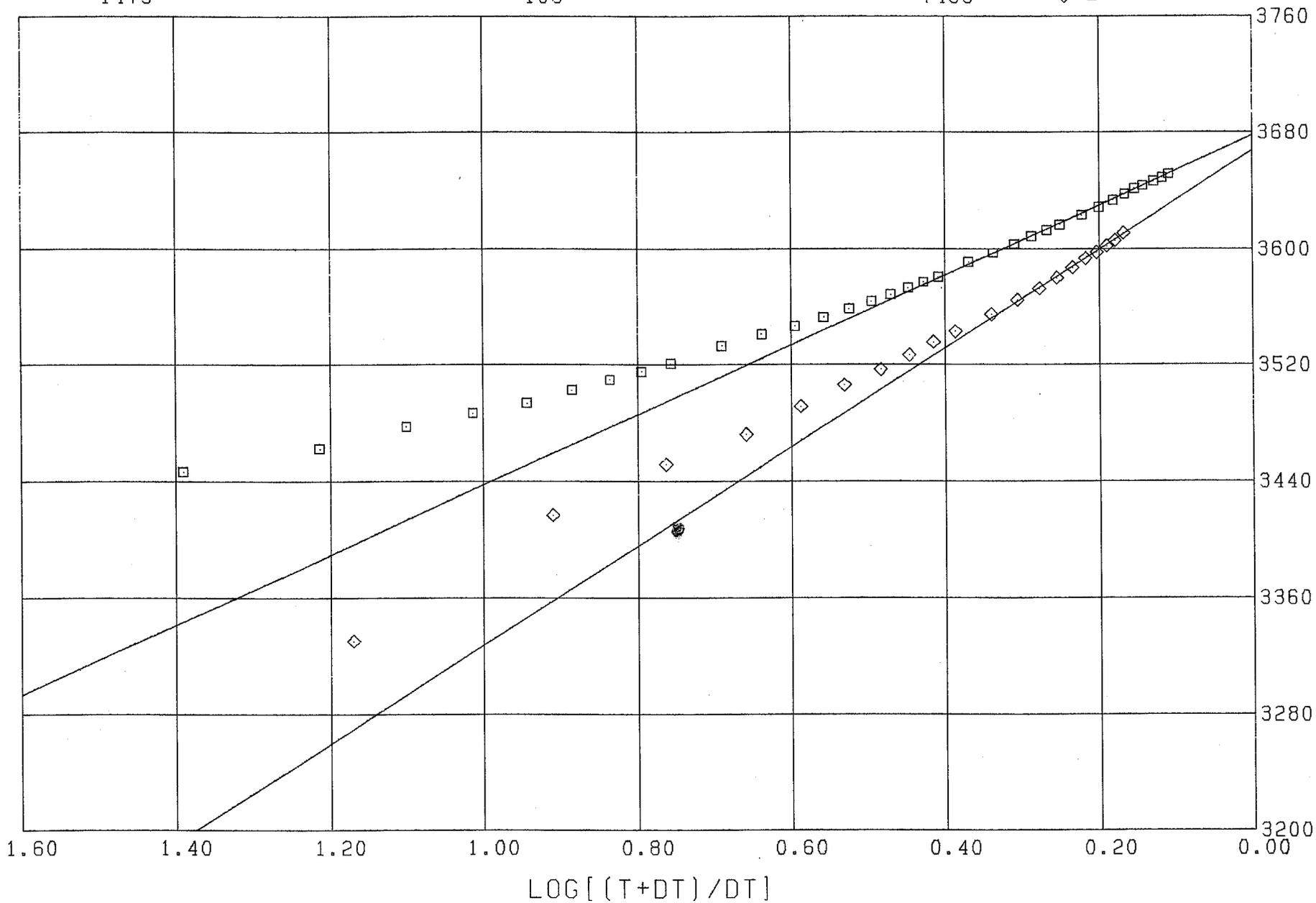


TICKET NO 23172600

GAUGE NO CIP 1 2
1475

GAUGE NO CIP 1 2
105

GAUGE NO CIP 1 2
7489 \diamond \square



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD FOR LIQUID WELLS

OIL GRAVITY <u>47.0</u> °API@60°F	WATER SALINITY <u>0.0</u> % SALT
GAS GRAVITY <u>0.650</u>	FLUID GRADIENT <u>0.3435</u> psi/ft
GAS/OIL RATIO <u>1378.0</u> SCF/STB	FLUID PROPERTIES AT <u>3677.9</u> psig
TEMPERATURE <u>134.0</u> °F	VISCOSITY <u>0.312</u> cp
NET PAY <u>18.0</u> ft	FMT VOL FACTOR <u>1.682</u> Rvol/Svol
POROSITY <u>10.0</u> %	SYSTEM COMPRESSIBILITY <u>23.55</u> x10 ⁻⁶ vol/vol/psi
PIPE CAPACITY FACTORS <u>0.00492</u>	<u>0.01422</u> bbl/ft

GAUGE NUMBER	1475	1475	105	105	7489	7489	UNITS	
GAUGE DEPTH	6206.0	6206.0	6211.0	6211.0	6271.0	6271.0		
FLOW AND CIP PERIOD	1	2	1	2	1	2		
FINAL FLOW PRESSURE	P _f	1817.7	2597.8	1871.0	2583.7	1868.8	2625.7	psig
TOTAL FLOW TIME	t	14.3	46.9	14.3	46.9	14.3	46.9	min
EXTRAPOLATED PRESSURE	P*	3645.2	3647.1	3645.2	3648.3	3667.6	3677.9	psig
ONE CYCLE PRESSURE		3303.5	3406.7	3302.8	3405.6	3327.5	3437.5	psig
PRODUCTION RATE	Q		754.0		754.0		754.0	BPD
TRANSMISSIBILITY	kh/μ		858.3		850.0		858.3	md-ft cp
FLOW CAPACITY	kh		267.985		265.406		267.985	md-ft
PERMEABILITY	k		14.8880		14.7448		14.8880	md
SKIN FACTOR	S		-0.6		-0.5		-0.5	
DAMAGE RATIO	DR		0.9		0.9		0.9	
POTENTIAL RATE	Q ₁		754.0		754.0		754.0	BPD
RADIUS OF INVESTIGATION	r _t		127.3		126.7		127.3	ft

REMARKS: ALL CALCULATED RESERVOIR PARAMETERS ARE EFFECTIVE TO OIL PRODUCTION. THE TOTAL LIQUID PRODUCTION (OIL AND WATER) RATE WAS DETERMINED TO BE 1984 BBL/DAY. FROM THE SAMPLER DATA, IT WAS DETERMINED THAT 38% OF THE TOTAL RATE WAS OIL, OR 754 BOPD.

THE TOTAL LIQUID PRODUCTION RATE WAS DETERMINED USING THE RECOVERY METHOD AND IS AN AVERAGE PRODUCTION RATE FOR THE DURATION OF THE TEST.

NOTICE: THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED TO YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

CORE ANALYSIS REPORT

FOR

MOBIL OIL COMPANY

MOBIL CEDAR POINT F13-12G
WILDCAT
SAN JUAN, UTAH

RECEIVED

DEC 18 1985

**DIVISION OF OIL
GAS & MINING**

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

MOBIL OIL COMPANY
MOBIL CEDAR POINT F13-12G
WILDCAT
SAN JUAN, UTAH

DATE : 11-NOV-1985
FORMATION : PARADOX
DRLG. FLUID: WBM
LOCATION : NW, SW SEC. 12-T36S-R25E

FILE NO : 3803-003421
ANALYSTS : DS/EV
ELEVATION: 6526.5 KB

FULL DIAMETER ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID OIL	SATS. WTR	GRAIN DEN	DESCRIPTION
DESERT CREEK ZONE CORE # 1 6225-6274								
	6225.0-33.0							ANHYDRITE -- NO ANALYSIS
1	6233.0-34.0	<0.01	<0.01	0.8	0.0	85.4	2.89	ANHY GRY VFXLN DOL
2	6234.0-35.0	0.04	*	9.9	0.0	52.6	2.78	DOL LTBRN VFXLN SL/ANHY SL/VUG
3	6235.0-36.0	4.72	3.41	10.5	1.3	52.6	2.83	DOL LTBRN VFXLN ANHY VUG
4	6236.0-37.0	5.80	4.85	9.6	0.0	21.4	2.83	DOL LTBRN VFXLN ANHY VUG
5	6237.0-38.0	24.	23.	9.2	0.0	9.2	2.86	DOL LTBRN VFXLN ANHY VUG
6	6238.0-39.0	7.21	6.32	9.6	3.6	32.4	2.85	DOL LTBRN VFXLN ANHY VUG
7	6239.0-40.0	36.	31.	12.3	5.6	28.0	2.87	DOL LTBRN VFXLN ANHY VUG **
8	6240.0-41.0	33.	31.	14.6	3.4	26.9	2.87	DOL LTBRN VFXLN ANHY VUG
9	6241.0-42.0	25.	21.	8.8	2.2	22.1	2.87	DOL LTBRN VFXLN ANHY VUG
10	6242.0-43.0	22.	18.	10.8	2.7	21.4	2.86	DOL LTBRN VFXLN ANHY VUG
11	6243.0-44.0	31.	30.	15.4	2.4	26.1	2.95	DOL LTBRN VFXLN ANHY VUG
12	6244.0-45.0	28.	23.	12.5	7.7	40.0	2.84	DOL LTBRN VFXLN ANHY VUG
13	6245.0-46.0	32.	22.	12.1	2.7	19.2	2.85	DOL LTBRN VFXLN ANHY VUG
14	6246.0-47.0	17.	17.	9.0	3.1	21.9	2.79	DOL LTBRN VFXLN ANHY VUG
15	6247.0-48.0	20.	19.	11.0	0.0	10.6	2.85	DOL LTBRN VFXLN SL/ANHY VUG
16	6248.0-49.0	1.27	*	12.0	0.0	37.1	2.84	DOL LTBRN VFXLN ANHY VUG
17	6249.0-50.0	40.	33.	11.7	2.0	15.7	2.85	DOL LTBRN VFXLN ANHY VUG
18	6250.0-51.0	31.	22.	10.5	0.0	23.8	2.85	DOL LTBRN VFXLN ANHY VUG
19	6251.0-52.0	0.12	*	11.9	0.0	36.5	2.80	DOL LTBRN VFXLN SL/ANHY VUG
20	6252.0-53.0	0.06	0.05	8.3	0.0	55.3	2.83	DOL DRKGRY VFXLN
21	6253.0-54.0	0.68	0.10	5.5	0.0	42.6	2.78	DOL DRKGRY VFXLN
22	6254.0-55.0	0.54	0.31	3.8	0.0	43.3	2.76	DOL DRKGRY VFXLN **
23	6255.0-56.0	0.82	0.02	4.2	0.0	51.9	2.75	DOL DRKGRY VFXLN **
24	6256.0-57.0	0.02	0.01	8.0	0.0	63.5	2.78	DOL DRKGRY VFXLN

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

MOBIL OIL COMPANY
 MOBIL CEDAR POINT F13-12G

DATE : 11-NOV-1985
 FORMATION : PARADOX

FILE NO : 3803-003421
 ANALYSTS : DS/EV

FULL DIAMETER ANALYSIS-BOYLE'S LAW POROSITY

SAMPLE NUMBER	DEPTH	PERM. TO AIR (MD) MAXIMUM	AIR (MD) 90 DEG	POR. He	FLUID SATS. OIL	WTR	GRAIN DEN	DESCRIPTION
25	6257.0-58.0	0.02	0.02	4.0	0.0	76.0	2.74	DOL DRKGRY VFXLN
26	6258.0-59.0	0.01	<0.01	6.1	0.0	79.3	2.78	DOL DRKGRY VFXLN
27	6259.0-60.0	<0.01	<0.01	4.4	0.0	78.9	2.76	DOL DRKGRY VFXLN
28	6260.0-61.0	0.05	0.01	6.1	0.0	69.9	2.80	DOL DRKGRY VFXLN
29	6261.0-62.0	<0.01	<0.01	5.2	0.0	43.6	2.76	DOL DRKGRY VFXLN
	6262.0-73.0							SHALE -- NO ANALYSIS
	6273.0-74.0							CORE LOSS

** (

** DENOTES FRACTURE PERMEABILITY

* SAMPLE NOT SUITABLE FOR FULL DIAMETER ANALYSIS

CO | L | DR | O | R | S | C |
Petroleum Reservoir Engineering

DALLAS, TEXAS

MOBIL OIL COMPANY
MOBIL CEDAR POINT F13-12G

DATE : 11-NOV-1985
FORMATION : PARADOX

FILE NO. : 3803-003421
ANALYSTS : DS/EV

*** CORE SUMMARY AVERAGES FOR 1 ZONE ***

DEPTH INTERVAL: 6233.0 TO 6262.0

FEET OF CORE ANALYZED : 29.0 FEET OF CORE INCLUDED IN AVERAGES: 29.0

-- SAMPLES FALLING WITHIN THE FOLLOWING RANGES WERE AVERAGED --

PERMEABILITY MAXIMUM RANGE (MD.) : 0.00 TO 100. (UNCORRECTED FOR SLIPPAGE)
HELIUM POROSITY RANGE (%) : 0.0 TO 100.0
OIL SATURATION RANGE (%) : 0.0 TO 100.0
WATER SATURATION RANGE (%) : 0.0 TO 100.0

SHALE SAMPLES EXCLUDED FROM AVERAGES.

AVERAGES FOR DEPTH INTERVAL: 6233.0 TO 6262.0

AVERAGE PERMEABILITY (MILLIDARCIES)		PRODUCTIVE CAPACITY (MILLIDARCY-FEET)	
ARITHMETIC PERMEABILITY	: 12.	ARITHMETIC CAPACITY	: 360.
GEOMETRIC PERMEABILITY	: 0.99	GEOMETRIC CAPACITY	: 29.
HARMONIC PERMEABILITY	: 0.01	HARMONIC CAPACITY	: 0.26
GEOMETRIC MAXIMUM & 90 DEG FERM.	: 0.60	GEOMETRIC MAXIMUM & 90 DEG CAPACITY:	17.
AVERAGE POROSITY (PERCENT)	: 8.9	AVERAGE TOTAL WATER SATURATION	: 35.1
		(PERCENT OF PORE SPACE)	
AVERAGE RESIDUAL OIL SATURATION	: 1.7	AVERAGE CONNATE WATER SATURATION **	: 35.1
(PERCENT OF PORE SPACE)		(PERCENT OF PORE SPACE)	

** ESTIMATED FROM TOTAL
WATER SAUTRATION.

PERMEABILITY VS POROSITY

COMPANY: MOBIL OIL COMPANY
 FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-12G
 COUNTY, STATE: SAN JUAN, UTAH

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
6233.0 - 6262.0	1 (+)	0.000	100.0	0.0	30.0	8.9	12.	0.01	0.99

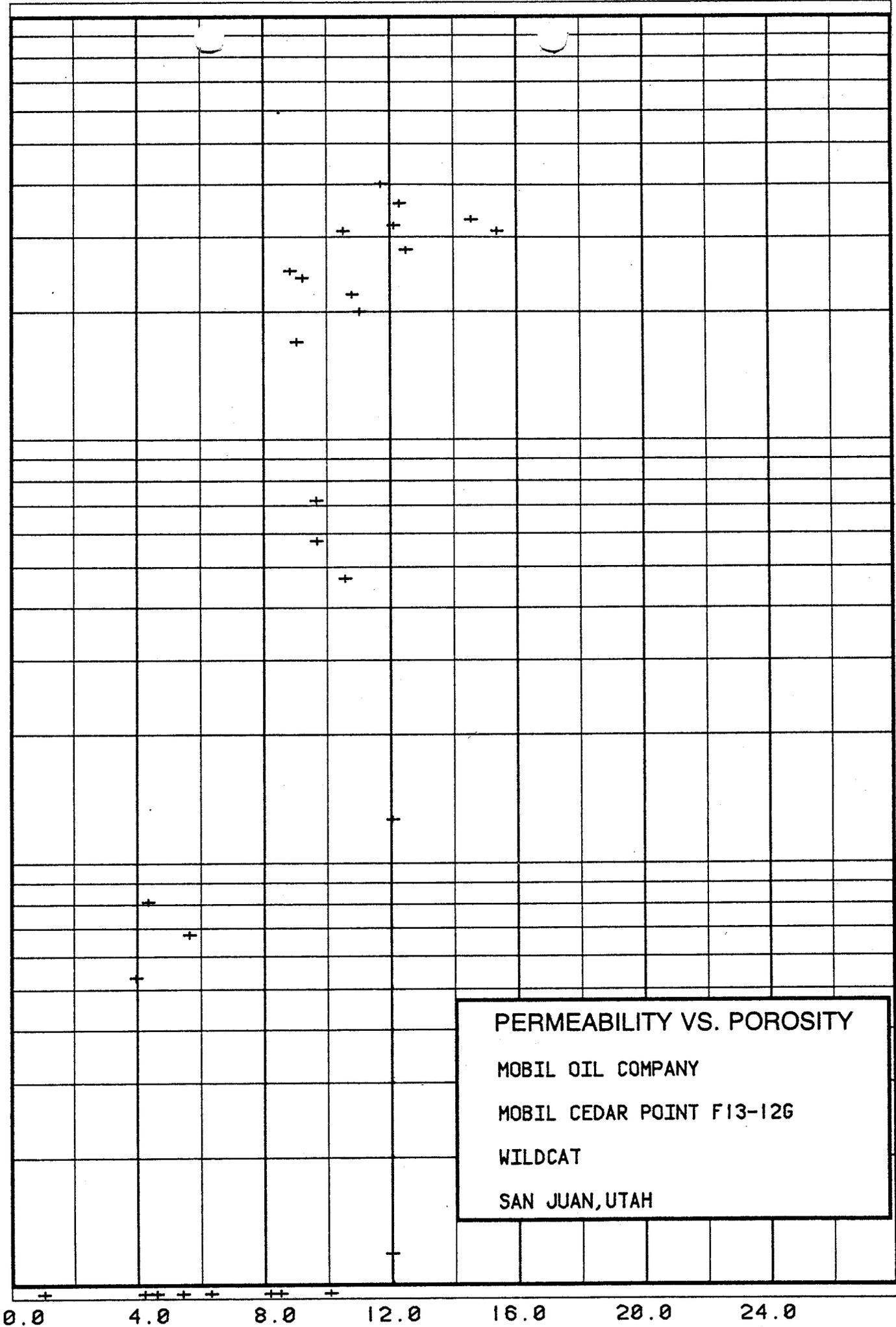
100

PERMEABILITY: MILLIDARCIES

10

1.0

0.1



PERMEABILITY VS. POROSITY
 MOBIL OIL COMPANY
 MOBIL CEDAR POINT F13-126
 WILDCAT
 SAN JUAN, UTAH

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: MOBIL OIL COMPANY
 FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-12G
 COUNTY, STATE: SAN JUAN, UTAH

AIR PERMEABILITY : MD. (HORIZONTAL) RANGE USED 0.000 TO 100.
 POROSITY : PERCENT (HELIUM) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 6233.0 - 6262.0 INTERVAL LENGTH : 29.0
 FEET ANALYZED IN ZONE : 29.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
8.9	12.	0.01	0.99

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: MOBIL OIL COMPANY
 FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-12G
 COUNTY, STATE: SAN JUAN, UTAH

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	1.0	0.8	0.005	0.005	3.4	3.4
2.0 - 4.0	1.0	3.8	0.540	0.540	3.4	6.9
4.0 - 6.0	5.0	4.7	0.048	0.306	17.2	24.1
6.0 - 8.0	2.0	6.1	0.022	0.030	6.9	31.0
8.0 - 10.0	8.0	9.1	1.5	9.9	27.6	58.6
10.0 - 12.0	6.0	11.1	8.2	20.	20.7	79.3
12.0 - 14.0	4.0	12.2	14.	24.	13.8	93.1
14.0 - 16.0	2.0	15.0	32.	32.	6.9	100.0

TOTAL NUMBER OF FEET = 29.0

CORE LABORATORIES, INC.*Petroleum Reservoir Engineering*COMPANY MOBIL OIL COMPANYFILE NO. 3803-003421WELL MOBIL CEDAR POINT F13-120DATE 11-NOV-1985FIELD WILDCATFORMATION PARADOXELEV. 6526.5 KBCOUNTY SAN JUAN STATE UTAHDRLG. FLD. WBM

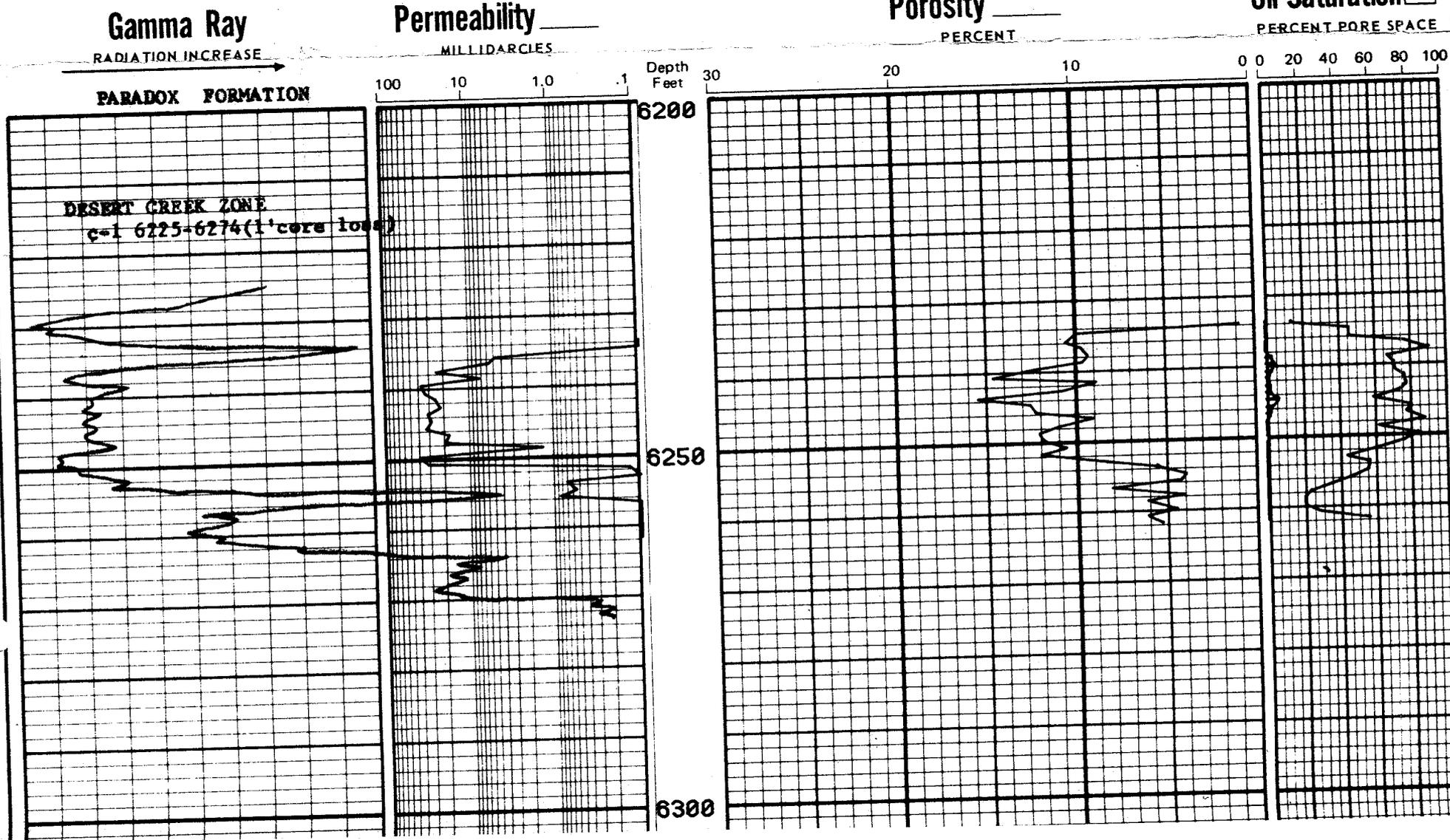
CORES _____

LOCATION NW, SW SEC. 12-T36S-R25E

CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100'



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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY MOBIL OIL COMPANY FILE NO. 3803-003421
 WELL MOBIL CEDAR POINT F13-12G DATE 11-NOV-1985 ENGRS. DS;EV
 FIELD WILDCAT FORMATION PARADOX ELEV. 6526.5 KB
 COUNTY SAN JUAN STATE UTAH DRLG. FLD. WBM CORES _____

CoRes Log

CORE and RESISTIVITY EVALUATION

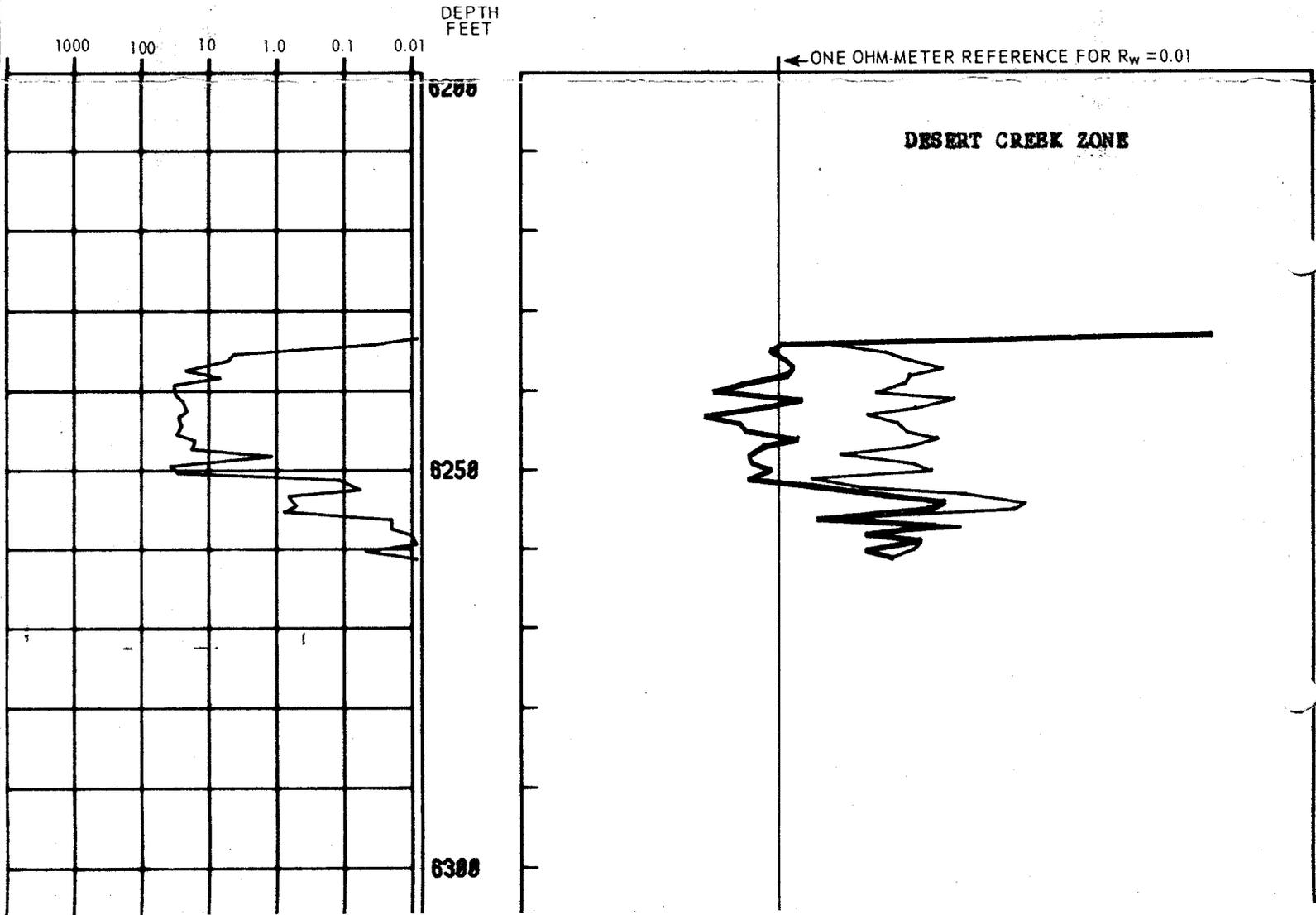
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RESISTIVITY PARAMETERS: $a = 1.0$ $m = 2.0$ $n = 2.0$ Depths 6233.0 to 6262.0
 $a =$ _____ $m =$ _____ $n =$ _____ Depths _____ to _____

PERMEABILITY
MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY

R_0 = OHM-METERS AT 100% S_w _____
 R_{mp} = OHM-METERS AT CRITICAL S_w _____



Denver East West
Division

Mobil Oil Corporation
Completions Engineering
December 18, 1985

Denver
AFE NO. 5FA0

Estimated
Completion
Cost: \$109M

Procedure To Temporarily Abandon
Cedar Point F-13-126
Bug Field
San Juan County, Utah

Present Condition of Well: Flowing water and non-commercial quantity of oil from Desert Creek.

Total Depth: 6327'

PRTD: 6300'

Casing Record: 13-3/8", 54.5#, K-55 at 100'

9-5/8", 36#, K-55 at 1928'

5-1/2", 15.5 # 17#, K-55 at 6327'

Perforations: 6247-6254' (Desert Creek)

Tubing: 2-7/8", 8rd EUE, J-55 to 6148'

Packer: Baker Mod. F. Fullbore at 6148'

Additional Procedure: Set cast iron and cement plug over Desert Creek, weld cap to top of casing and temporarily abandon well for later use as a salt water disposal well (in accordance with letter from Geology). As stated in letter, Honcker Trail will not be tested at this time.

Procedure:

- 1) Kill well, unseat packer and circulate hole with brine water.
- 2) Pull out of hole and lay down tubing and packer
- 3) Run Schlumberger. Run cast iron bridge plug and set

at 6150'. Run dump barrel and dump 50' cement
plug (6 sacks Class 'B') on plug. R. D. Schlumberger
4) Release completion rig, weld cap on top of
casing and TF.

J. L. Bunker

12/18/85
0830 hrs.
JRB

Mobil (Superior) - Craig Eggerman
Cedar Point F-13-12G
Sec 12, T36S, R25E
San Juan Co.

- Want to temp. abandon by setting CIBP above perfs.
- Received federal approval from BLM.
- Will follow w/ written secondary notice.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPI
(Other instructions
reverse side)

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORPORATION

3. ADDRESS OF OPERATOR
P.O. DRAWER G, CORTEZ, CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1648.6 FSL, 687.6 FWL

14. PERMIT NO.
43-037-31184

15. ELEVATIONS (Show whether DF, RT, OR, or other)
6515.1' ungraded ground

RECEIVED
DEC 23 1985

5. LEASE DESIGNATION AND SERIAL NO.
U40052

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
CEDAR POINT

9. WELL NO.
F-13-12G

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12, T36S, R25E, SLM

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

(Other) Temporarily Abandoned

(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.)*

Mobil Oil Corporation, Agent for Superior Oil Company, proposes to temporarily abandon the above referenced well. The well may be used at some future date as a saltwater disposal well. Note the attached procedure.

This was verbally approved by Greg Noble, B.L.M.-Moab, John Baza, Utah Division of Oil, Gas and Mining-Salt Lake City.

Federal approval of this action is required before commencing operations.

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 12/23/85
BY: Original Signed by John B. Baza

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

SIGNED [Signature] TITLE Sr. Regulatory Engineering Advisor DATE 12/19/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

EXPRESS MAIL ROUTING SLIP

PAM

12-24 11:00A

TAMI

12-24 11:30

VICKY

1-3 8:25

CLAUDIA

G 1-2 8:36

STEPHANE

B 12-30 12:26

CHARLES

CP 12-31 8:39

RULA

1-3 8:35

MARY ALICE

MAP 8:31 12/31

CONNIE

CO 12:31 8:17

MILLIE

1-3 9:45

PAM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME N/A
2. NAME OF OPERATOR SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORPORATION	8. FARM OR LEASE NAME CEDAR POINT
3. ADDRESS OF OPERATOR P.O. DRAWER G, CORTEZ, CO 81321	9. WELL NO. F-13-12G
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1648.6 FSL, 687.6 FWL	10. FIELD AND POOL, OR WILDCAT WILDCAT
14. PERMIT NO. 43-037-31184	11. SEC., T., R., N., OR BLK. AND SUBST. OR AREA Sec. 12, T36S, R25E, SLM
15. ELEVATIONS (Show whether of, to, or etc.) 6515.1' ungraded ground	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 OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANT <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Temporarily Abandoned <input checked="" type="checkbox"/>	X	(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.)

Mobil Oil Corporation, Agent for Superior Oil Company, proposes to temporarily abandon the above referenced well. The well may be used at some future date as a saltwater disposal well. Note the attached procedure.

This was verbally approved by Greg Noble, B.L.M.-Moab, John Baza, Utah Division of Oil, Gas and Mining-Salt Lake City.

bcc: ~~_____~~ - Cortez (904)
P. W. Richardson - Cortez (904)
J. R. Etherington - 6C
Leidensticker - 7I
Dawson - 9F
Central Files - 5B

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

SIGNED W. Eggerman TITLE Sr. Regulatory Engineering Advisor DATE 12/19/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

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

DATE: 1-23-86

By: John R. Duda

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Mobil Oil Corporation
Completions Engineering
December 18, 1985

Revised
AFE NO. 5FAO

Estimated
Completion
Cost: \$109M

Procedure To Temporarily Abandon

Cedar Point F-13-126

Bus Field

San Juan County, Utah

Present Condition of Well: Flowing water and non-commercial quantity of oil from Desert Creek.

Total Depth: 6327'

PRTD: 6300'

Casing Program: 15.3/2", 54.5', K-55 at 100'

9-5/8", 36', K-55 at 1922'

5-1/2", 15.5' & 17', K-55 at 6327'

Perforations: 6247-6254' (Desert Creek)

Tubing: 2-7/8", 2nd EUE, J-55 to 6108'

Tools: Spring Mod. P. Fullbore at 6108'

Additional Program: Set cast iron and cement

over Desert Creek, with cap to top of

casing and temporarily abandon well for

later use as a water disposal well

(in accordance with letter from Geology).

Stated in letter, Honcker Trail will not

be tested at this time.

Procedure:

1) Kill well, unseat packer and circulate hole with brine water.

2) Pull out of hole and lay down tubing and

3) Set Schlumberger. Run cast iron bridge plug and

at 6150'. Run dump boiler and dump 50' cement
plug (6 sacks Class 'B.') on plug. P.D. Schwininger
4) Release completion rig, weld cap on top of
casings and TF.

d. Schwininger

EXPRESS MAIL ROUTING SLIP

PAM
TAMI
VICKY
CLAUDIA
STEPHANE
CHARLES
RULA
MARY ALICE
CONNIE
MILLIE

1-27 2:30
1-27 2:45
2:55
3:59
1-27 4:03
OP 1-27 4:13
AM 1-27 4:35
MAP 1-28 8:29
CO 1-28 847

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

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. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR SUPERIOR OIL COMPANY, through its Agent, MOBIL OIL CORPORATION</p> <p>3. ADDRESS OF OPERATOR P.O. DRAWER G, CORTEZ, CO 81321</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1648.6 FSL, 687.6 FWL</p> <p>14. PERMIT NO. 43-037-31184</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. U40052</p> <p>6. IF INDIAN ALLOTTEE OR TRIBE NAME N/A</p> <p>7. UNIT AGREEMENT NAME N/A</p> <p>8. FARM OR LEASE NAME CEDAR POINT</p> <p>9. WELL NO. F-13-12G</p> <p>10. FIELD AND POOL, OR WILDCAT WILDCAT</p> <p>11. SEC., T., S., E., OR BLK. AND SURVEY OR AREA Sec. 12, T36S, R25E, SLM</p> <p>12. COUNTY OR PARISH 13. STATE SAN JUAN UTAH</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6515.1' ungraded ground</p>	

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

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

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

Mobil Oil Corporation, Agent for Superior Oil Company, proposes to temporarily abandon the above referenced well. The well may be used at some future date as a saltwater disposal well. Note the attached procedure.

This was verbally approved by Greg Noble, B.L.M.-Moab, John Baza, Utah Division of Oil, Gas and Mining-Salt Lake City.

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

SIGNED <u>[Signature]</u>	TITLE <u>Sr. Regulatory Engineering Advisor</u>	DATE <u>12/19/85</u>
(This space for Federal or State office use)		
SIGNED <u>[Signature]</u>	TITLE <u>District Manager</u>	DATE <u>1/6/86</u>

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

*See Instructions on Reverse Side

operator

EXPRESS MAIL ROUTING SLIP

PAM

1-27 2:20

TAMI

1-27 2:45

VICKY

2:55

CLAUDIA

3:59

STEPHANE

1-27 4:03

CHARLES

1-27 ~~AM~~ 4:13

RULA

1-27 ~~AM~~ 4:35

MARY ALICE

1-28 MAP 8:29

CONNIE

CD 1-28 8:47

MILLIE

MS 1-28 8:50

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved
Budget Bureau
Expires August 31, 1984

5. LEASE DESIGNATION AND SERIAL NO.

11-40052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

CEDAR POINT

9. WELL NO.

F-13-12G

10. FIELD AND POOL, OR WILDCAT

WILDCAT

11. SEC., T., R., N., OR BLK. AND
SUBVY OR AREA

12-365 25E SLM

14. PERMIT NO.

43-037-31184

15. ELEVATIONS (Show whether SF, ST, GR, etc.)

6515.1 Ungraded

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:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANE

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.)*

1. Request waiver of requirement to provide Monthly Report of Operations (Form 3160-6).
2. Once TA completed (probably this week), access will be blocked in NWSW Section 12. Access will have water bars installed on portion not crowned, ditched and rocked.
3. Above was discussed between Brian Wood and Rich McClure on January 9, 1986.

RECEIVED

JAN 24 1986

DIVISION OF OIL
GAS & MINING

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

SIGNED

Clyde J. Benally
C. J. Benally

TITLE

Sr. Regulatory Engineer

DATE

1/13/86

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

EXPRESS MAIL ROUTING IP

PAM
TAMI
VICKY
CLAUDIA
STEPHANE
CHARLES
RULA
MARY ALICE
CONNIE
MILLIE

	1-27	2:30
	1-27	2:45
		3:00
		3:51
	1-27	4:03
	CP 1-27	4:13
	MAP 1-27	4:35
	MAP 1-28	8:30
	CD 1-28	8:47
	ms 1-28	8:50

John,

I don't know who in our office inked in "TA" on the WCR, but it's not the operator, and I see no subsequent for the TA status. at this point, I view this as a drilling suspended report.

Please advise, and route back to me.

Jim,

3-31-86



3-28-86

Item no. 24 on WCR indicates that prod. zones are temp. abd. What more do you need?

- JRB

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE
(New of the structure)
REVISED

Expires August 31, 1985

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

3. LEASE DESIGNATION AND SERIAL NO.
U40052
6. IF INDIAN ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Cedar point
9. WELL NO.
F-13-12G

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
2. TYPE OF COMPLETION: NEW WELL WORK OVER REFIN. EX. PUMP BACK DIFF. REVER. Other _____

2. NAME OF OPERATOR
Mobil Oil Corporation/Agent for Superior

RECEIVED
FEB 18 1986

3. ADDRESS OF OPERATOR
P.O. Box 5444 Denver, CO. 80217

10. FIELD AND POOL OR WILDCAT
North Horsehead Undesignated

4. LOCATION OF WELL (Report location clearly and in accordance with well log requirements)
At surface 1648.6 FSL 687.6 FWL

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
Sec, 12-T36S-R25E

At top prod. interval reported below same
At total depth same

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. 43-037-31184
DATE ISSUED 18-14-85

12. COUNTY OR PARISH San Juan
13. STATE Utah

15. DATE SPUDDED 10-25-85
16. DATE T.D. REACHED 11-12-85
17. DATE COMPL. (Ready to prod.) 12-25-85
18. ELEVATIONS (DF. REB. RT. OR, ETC.)* GL 6515; KB 6528
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6237
21. FLUID BACK T.D., MD & TVD 6313
22. IF MULTIPLE COMPL., HOW MANY?
23. INTERVALS DRILLED BY
24. ROTARY TOOLS XX
25. CABLE TOOLS
26. WAS DIRECTIONAL SURVEY MADE No

28. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-SP-GR; EPT-ML-GR; LOT-CNL-GR
27. WAS WELL COBED Yes

29. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Well Temp. Abd.

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	EXISTING RECORD	AMOUNT PULLED
9 5/8"	36# K55	1928		565 SX BJlite 150 SX B	
5 1/2"	15.5 K55	6327		475 SX B	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACER SET (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACER SET (MD)

31. PREPARATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6247-6254 Desert Creek	500 gal, 28% acid

32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
		TA

DATE OF TEST	HOURS TESTED	CROCK 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.	WATLE—BBL.	OIL GRAVITY-API (CORR.)

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

25. LIST OF ATTACHMENTS

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED [Signature] TITLE Prod. Accty. Super. DATE 2.11.86

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

7. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; core intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1859					
Chinarup	2579					
Butler	2834					
Forver Trail	4569					
Ismay	5908					
Lovenweep	5977					
... Ismay	6051					
Gothic Shale	6116					
Desert Creek	6168					
Whimney Rock	6262					

15

ROUTING/ACTION FORM

4-7-86

SEQ	NAME	ACTION	INITIAL
	NORM		
	TAMI	3A	<i>TA</i>
	VICKY		
	CLAUDIA	1 - TAD	
	STEPHANE	1 - WCR	<i>SB</i>
	CHARLES		
	RULA	2 - WHOLE FILE	<i>Rula</i>
	MARY ALICE		
	CONNIE		
	MILLIE		
	RON		
	JOHN		
	GIL		
	PAM	4, 5	<i>pk</i>

NOTES:

As you can see, this one has
been around the block a time
or two. Just take the speed and
completion info from the WCR,
and put it on the TAD as TA.
Take file out of dly.
Bottom line --- out of dly,
on TAD.

ACTION CODE

1. DATA ENTER
2. FILM
3. POST
a. CARD FILE
b. FILE LABEL
c. LISTS
4. FILE
5. RELOCATE FILE OR CARD
6. DECISION
7. PREPARE LETTER
12. OTHER - SEE NOTES

EITHER DRUG OR
 PADD IN. THEY RPTS
 STILL REQUIRED

NAME	ACTION CODE(S)	INTL
NORM		JA
TAMI	3A	JA
VICKY		JC
CLAUDIA	1 750.P	Si
STEPHANE	1	Si
CHARLES		CA
RULA	2 + (LOG CONTR)	LM
MARY ALICE		MAP
CONNIE		CO
MILLIE		WA
PAM	(5) FILE	PL

1st
ACTION

Required Action Code

1. Data Entry
2. Filming
3. Posting
 - a. Card Index
 - b. File Label
 - c. Lists
4. Bonding Verification
5. Other (See Norm)

✓ CHECK FOR PLUGS... THIS MIGHT BE
 OPNS EUC INSTEAD OF FA

John,

I don't know who in our office inked in "TA" on the WCR, but it's not the operator, and I see no subsequent for the TA status. At this point, I view this as a drilling suspended report.

Please advise, and route back to me.

True,

John

3-28-26

3-31-86

Item no. 24 on
wCR indicates that
prod. zones are
temp. abd. What
more do you need?

- JRB

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

1. Oil Well Gas Well Other: Temporarily Abandoned

2. Name of Operator
MOBIL OIL CORPORATION

3. Address of Operator
P. O. DRAWER 6, CORTEZ, CO. 81321

4. Location of Well

1649' FSL, 688' FWL

14. Permit No. 43-037-31184
15. Elevations (DF, RT, GR)
GR: 6515' Ungraded

5. Lease Designation &
Serial No.
U-40052

6. If Indian, Allottee
N/A

7. Unit Agreement Name
N/A

8. Farm or Lease Name
Cedar Point

9. Well No.
F13-126

10. Field and Pool, or Wildcat
Wildcat

11. Sec. T,R,M or BLK and
Survey or Area
Section 12, T36S, R25E SLM

12. County, Parish 13. State
San Juan Utah

RECEIVED
JUN 16 1988

DIVISION OF
OIL, GAS & MINING

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/Acidizing <input type="checkbox"/>	Abandonment † <input type="checkbox"/>
Repair Well <input type="checkbox"/>	Change Plans <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zone pertinent to this work) †

Mobil Oil Corporation proposes to plug and abandon the subject well as per the attached procedure. This work was discussed with Mr. Dale Manchester of the Moab BLM office on May 23, 1988. The work will be done as soon as possible after the necessary approvals have been obtained, probably in June or July, 1988.

COPY

Federal approval of this action
is required before commencing
operations.

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

DATE 6-20-88

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

BY John R. Bay

Signed: D. C. Collins
D. C. Collins

Title: Sr Staff Operations Engineer Date: 6.13.88

(This space for Federal or State office use)

APPROVED BY _____ TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JUN 16 1988

CEDAR POINT F13-126
BUG FIELD
SAN JUAN COUNTY, UTAH

DIVISION OF
OIL, GAS & MINING

PLUG AND ABANDONMENT PROCEDURE

1. MIRU. Install and test BOP's. PU and RIH w/ 2-7/8" workstring.
2. Equalize 100 foot cement plug (13.4 cu ft slurry) @ 5990'.

NOTE: Notify BLM 24 hrs prior to beginning plugging operations.

3. Circ in 93 bbls 9.5# bentonite mud on top of cement. POOH.
4. Cut and recover 5-1/2" casing from 1928'. RIH w/ open ended tbg to 2078' and equalize 300 foot cement plug (85.2 cu ft slurry) from 150' below cut off to 150' above.
5. Circ in 134 bbls 9.5# bentonite mud on top of cement. POOH.
6. Place 50' neat cement plug at surface inside 9-5/8" casing. RDMO.
7. Cut off wellhead and weld on dry hole marker. Restore location and access road as per BLM requirements.

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Designation & Serial No.
U-40052
6. If Indian, Allottee or Tribe Name
N/A

1. Oil Well Gas Well Other: Temporarily Abandoned

2. Name of Operator
MOBIL OIL CORPORATION

3. Address of Operator
P. O. DRAWER G, CORTEZ, CO. 81321

4. Location of Well
1649' FSL, 688' FWL

14. Permit No. 43-037-31184
15. Elevations (DF, RT, GR)
GR: 6515' Ungraded

7. Unit Agreement Name
N/A
Farm or Lease Name
Pedar Point
Well No.
F13-12G

10. Field and Pool, or Wildcat
Wildcat

11. Sec. T,R,M or BLK and Survey or Area
Section 12, T36S, R25E SLM

12. County, Parish San Juan
13. State Utah

RECEIVED
OCT 20 1988

DIVISION OF
OIL, GAS & MINING

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/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 zone pertinent to this work) *

- 10-03-88 MIRU. NU BOPs. PU and RIH w/ bit and scraper on 110 jts 2-7/8" tbg.
- 10-04-88 PU remaining tbg and tagged PBYD @ 6100'. POOH. RIH open ended and equalized 15 sx Class B cement (17.7 cu ft slurry) 5975-6100'. Pulled tbg tail to 5975' and circ in 93 bbls 9.5# bentonite mud to 1900'. POOH laying down 134 jts tbg.
- 10-05-88 RIH w/ 66 jts tbg and circ hole w/ wtr from 2070' to surface. Free point and cut 5-1/2 csg @ 1920'. POOH w/ 43 jts 5-1/2" csg.
- 10-06-88 RIH w/ 66 jts open ended tbg. Mixed 110 sx Class B cement (129 cu ft slurry) and spotted from 2078' to 1778'. Pulled tbg to 1778' and circ 140 bbls 9.5# bentonite mud from 1778' to surface. Pulled 64 jts and spotted 25 sx cement from 55' to surface. ND BOPs. Cut off 9-5/8" casing below bradenhead and welded dry hole marker onto 9-5/8" casing. RDMO.

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

Signed: [Signature] Title: Sr Staff Operations Engineer Date: October 18, 1988
D. C. Collins

(This space for Federal or State office use)

APPROVED BY _____ TITLE: _____ DATE: _____

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR mobil oil LEASE _____
WELL NO. Cedar Point F13-12.6 API 43-037-31184
SEC. 12 T. 36S R. 25E CONTRACTOR _____
COUNTY SJT FIELD _____

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN _____ / TA _____ :

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> SAFETY
<input type="checkbox"/> OTHER			

ABANDONED:

<input checked="" type="checkbox"/> MARKER	<input checked="" type="checkbox"/> HOUSEKEEPING	<input checked="" type="checkbox"/> REHAB.	<input type="checkbox"/> OTHER
--	--	--	--------------------------------

PRODUCTION:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> FACILITIES*
<input type="checkbox"/> METERING*	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input type="checkbox"/> SECURITY	<input type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: loc marker

REMARKS: Prod recently NFI N

ACTION: _____

INSPECTOR: MA DATE 11/3/88

FAN APP'D

4301530174

5-10-91

Amoco #5, NENE 34-175-11E

~~1002-~~

4303731453

Jude 2-17, SESW 17-315-23E

5-13-91

4303731465

COGC 1-35-36-21, NWSW 35-365-24E

5-13-91

4303731340

Recapture 29-34, SWSE 29-365-28E

5-13-91

4303730499

Bug 1, NESE 12-365-25E

5-13-91

4303731184

Cedar Point F-13-26, NWSW 12-365-25E

5-13-91

4303730735

Bug 25, NENE 18-365-26E

5-10-91

4303731322

Jina 1, NESE 13-375-23E

5-13-91

4303731388

Manhattan 1-5, NWSW 5-375-24E

5-13-91

JLT List from BLM showing final
abandonment notice dates.

DTS

5-28-91

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: MOBIL OIL COMPANY
FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-126
COUNTY, STATE: SAN JUAN, UTAH

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	3.0	0.005	0.005	3.5	10.3	10.3
0.010 - 0.020	1.0	0.010	0.010	6.1	3.4	13.8
0.020 - 0.039	2.0	0.020	0.020	6.0	6.9	20.7
0.039 - 0.078	3.0	0.049	0.050	8.1	10.3	31.0
0.078 - 0.156	1.0	0.120	0.120	11.9	3.4	34.5
0.312 - 0.625	1.0	0.540	0.540	3.8	3.4	37.9
0.625 - 1.250	2.0	0.747	0.750	4.8	6.9	44.8
1.250 - 2.500	1.0	1.3	1.3	12.0	3.4	48.3
2.500 - 5.000	1.0	4.7	4.7	10.5	3.4	51.7
5.- 10.	2.0	6.5	6.5	9.6	6.9	58.6
10.- 20.	1.0	17.	17.	9.0	3.4	62.1
20.- 40.	10.0	28.	28.	11.7	34.5	96.6
40.- 80.	1.0	40.	40.	11.7	3.4	100.0

TOTAL NUMBER OF FEET = 29.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: MOBIL OIL COMPANY
FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-12G
COUNTY, STATE: SAN JUAN, UTAH

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
0.0	0.0	0.0	29.0	100.0	8.9	9.4
2.0	1.0	0.3	28.0	99.7	9.2	9.5
4.0	2.0	1.8	27.0	98.2	9.4	9.6
6.0	7.0	10.8	22.0	89.2	10.4	10.3
8.0	9.0	15.6	20.0	84.4	10.9	10.7
10.0	17.0	43.6	12.0	56.4	12.1	12.0
12.0	23.0	69.4	6.0	30.6	13.2	
14.0	27.0	88.4	2.0	11.6	15.0	
16.0	29.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 257.8

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

GE

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

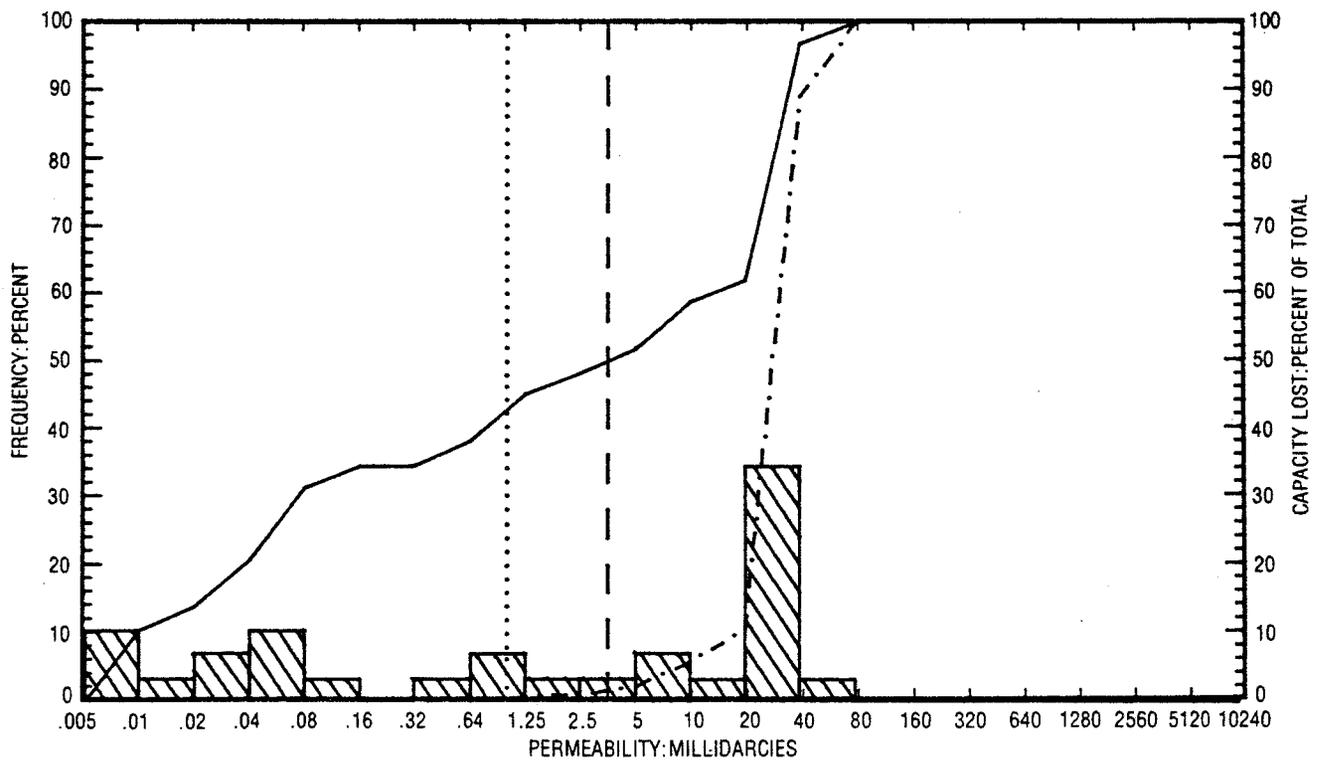
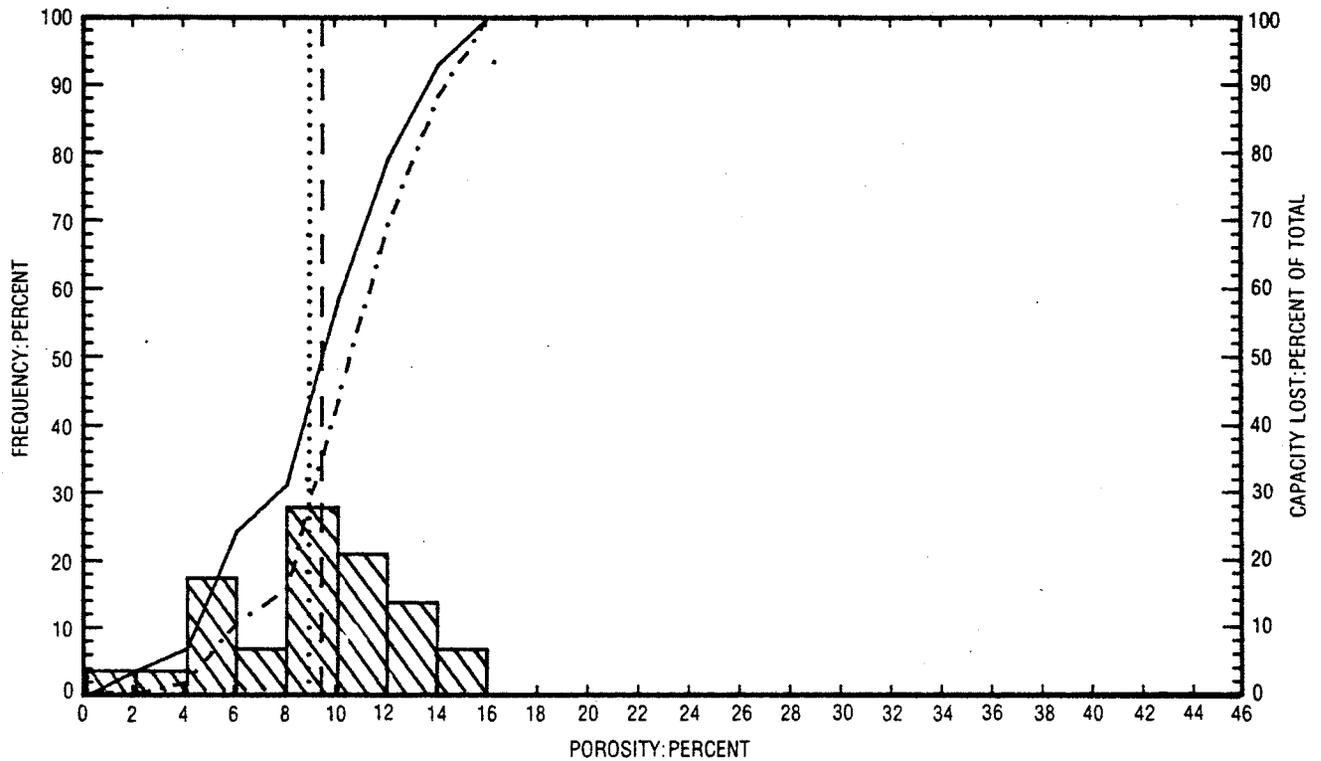
COMPANY: MOBIL OIL COMPANY
FIELD : WILDCAT

WELL : MOBIL CEDAR POINT F13-126
COUNTY, STATE: SAN JUAN, UTAH

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	29.0	100.0	0.99	3.54
0.010	3.0	0.0	26.0	100.0	2.40	7.07
0.020	4.0	0.0	25.0	100.0	2.73	8.41
0.039	6.0	0.0	23.0	100.0	4.19	14.14
0.078	9.0	0.1	20.0	99.9	8.15	21.44
0.156	10.0	0.1	19.0	99.9	10.17	22.19
0.312	10.0	0.1	19.0	99.9	10.17	22.19
0.625	11.0	0.2	18.0	99.8	11.98	22.97
1.250	13.0	0.7	16.0	99.3	16.94	24.62
2.500	14.0	1.0	15.0	99.0	20.13	25.49
5.	15.0	2.3	14.0	97.7	22.33	26.39
10.	17.0	5.9	12.0	94.1	27.46	28.28
20.	18.0	10.6	11.0	89.4	28.68	
40.	28.0	88.9	1.0	11.1	40.00	
80.	29.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 360.36



PERMEABILITY AND POROSITY HISTOGRAMS

MOBIL OIL COMPANY
 MOBIL CEDAR POINT F13-12G
 WILDCAT
 SAN JUAN, UTAH

LEGEND

- ARITHMETIC MEAN POROSITY (dotted line)
- GEOMETRIC MEAN PERMEABILITY (dotted line)
- MEDIAN VALUE - - - - - (dashed line)
- CUMULATIVE FREQUENCY _____ (solid line)
- CUMULATIVE CAPACITY LOST - . - . - . (dash-dot line)