

# MERIDIAN OIL

December 10, 1987

State of Utah Natural Resources  
Oil, Gas and Mining  
355 W. North Temple  
3 Triad center, Ste 350  
Salt Lake City, Utah 84180-1203

RECORDED  
DEC 14 1987

Attention: Arlene Sollis

DIVISION OF  
OIL, GAS & MINING

Re: Application for Permit to Drill  
23-14 Cherokee-Federal  
NESW Section 14-37S-23E  
Federal Lease No. U-46825

Gentlemen:

Enclosed are three copies of Form 3160-3, Application for Permit to Drill with attachments for the above referenced location.

Water appropriation will be Water User Claim No. 09-1499.

Please be advised that Meridian Oil Inc. requests that all pertinent data for this location be granted TIGHT HOLE status.

If you have any questions, please do not hesitate to call me at 406-256-4122.

Sincerely,



Suzann S. Nelson  
Sr. Operations Technician

/ssn/1423N

Encl

cc: Bill Mitchell  
Meridian Oil Inc.

RECORDED  
DEC 14 1987

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

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

MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR

P. O. Box 1855, Billings, MT 59103

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

NESW (2525' FSL - 2170' FWL)

At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

17 miles northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED\*

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

470'

16. NO. OF ACRES IN LEASE

1600

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.

1,350'

19. PROPOSED DEPTH

6188' *ahh*

20. ROTARY OR CABLE TOOLS

Rotary

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

5592' GL (graded)

22. APPROX. DATE WORK WILL START\*

February 5, 1988

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24#	2,025'	Cement to sfc w/560 sx
7-7/8"	5-1/2"	15.5#	6,188'	Single stage. TOC @ 5200'
				Caliper log + 20% excess

Oil and Gas Order #1

Attachments:

Survey Plat

Eight Point Drilling Program

Thirteen Point Surface Use Plan

Exhibit "1", "9a" and "9b"

**CONFIDENTIAL INFORMATION**

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

*D. R. Hamlin*

TITLE Regional Drilling Engineer

DATE 12/10/87

(This space for Federal or State office use)

PERMIT NO.

43-037-31392

APPROVAL DATE

APPROVED BY THE STATE

OF UTAH DIVISION OF

OIL, GAS, AND MINING

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

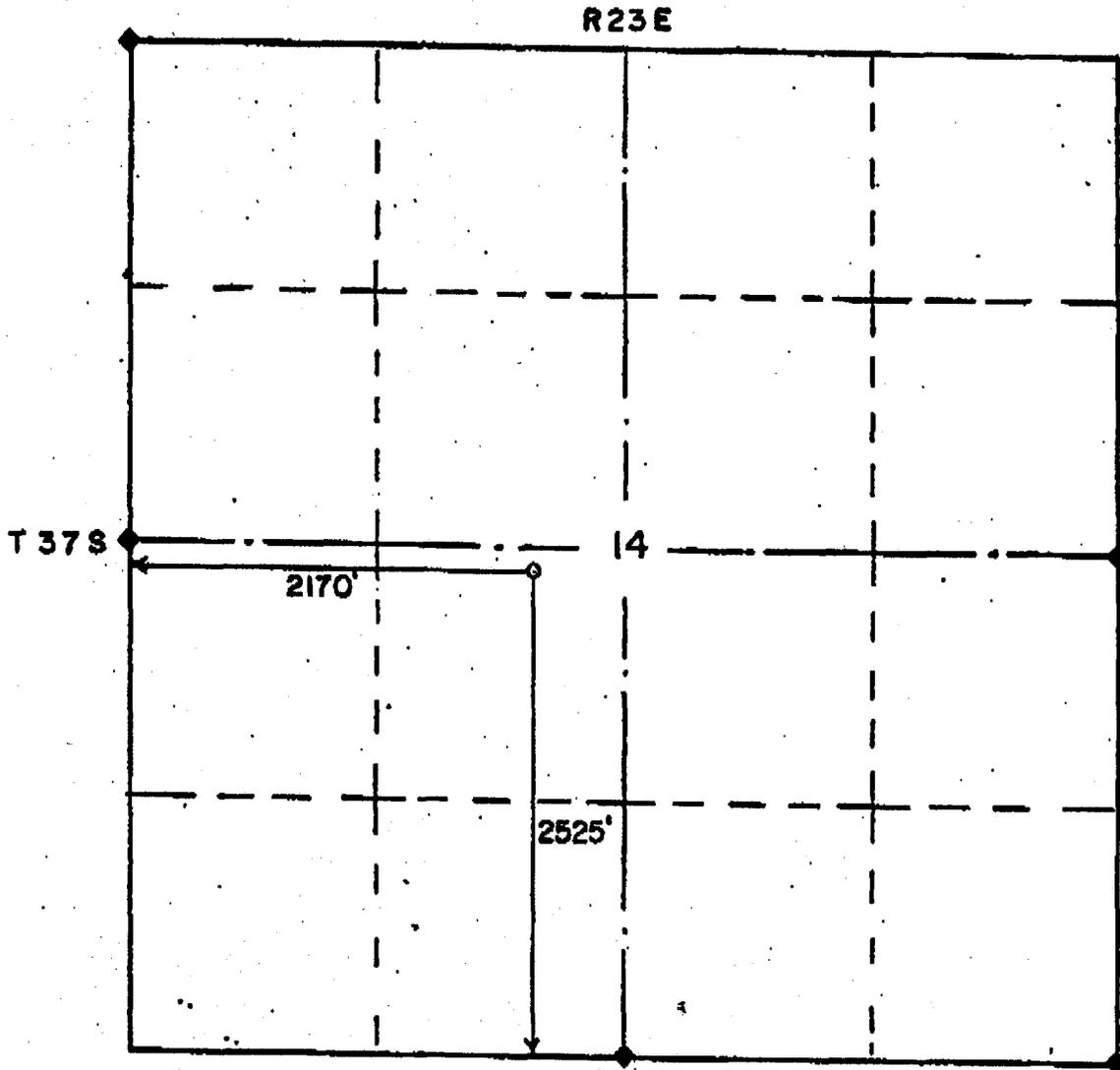
TITLE

DATE: 2-26-88

BY: *John R. Bay*

WELL SPACING: *PG 15-3-3*

WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:  
MERIDIAN OIL, Cherokee Federal #23-14  
2525' FSL & 2170' FWL , grd. elevation 5593'  
Section 14, T.37 S., R.23 E., SLM  
San Juan County, Utah  
Alternate; 2500' FS & 2240' FW , 5597'grd.

The above plat is true and correct to my knowledge and belief.

4 November 1987

REGISTERED LAND SURVEYOR  
No. 5705  
Gerald G. Huddleston  
Gerald G. Huddleston, LS  
STATE OF UTAH

MERIDIAN OIL INC.

LEASE NAME: 23-14 Cherokee-Federal  
 LEASE NO. U-46825  
 LOCATION: 2525' FSL - 2170' FWL  
 NESW Section 14-37S-23E  
 San Juan County, Utah  
 Cherokee Field

All lease/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to ensure compliance.

A. EIGHT POINT DRILLING PROGRAM

1. & 2. Estimated Tops:

Morrison	Surface	
Entrada	816	
Navajo	1021	fresh water
Chinle	2011	
Shinarump	2551	
Cutler	3111	
Hermosa	4761	
Upper Ismay	5702	oil
Top Porosity	5853	oil
Hovenweep	5943	
Lower Ismay	5963	
Desert Creek	6037	oil
Bug	6087	
Chimney Rock	6105	
Akah	6128	
TD	6188	

CONFIDENTIAL INFORMATION

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

- a. A 3000 psi WP wellhead will be installed on the surface casing. A 3000 psi WP Annular preventer and 3000 psi WP double gate preventer equipped with blind and pipe rams will be nipped up on wellhead.
- b. BOP systems will be consistent with API RP 53. Annular preventer will be tested to 1500 psi against casing. Pipe and blind rams, choke line and manifold will be tested to 1500 psi against casing. Casing will be tested to 1500 psi prior to drilling float shoe.
- c. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. Casing program:

Anticipated cement tops will be reported as to depth, not the expected number of sacks.

Hole Size	Size	Depth	Casing				Cementing Program
			Weight	Grade	Thrd	Cond	
11	8-5/8	2,010'	24#	K-55	ST&C	New	Cement to sfc w/560 sx. Single stage. TOC @ 5200'.
7-7/8	5-1/2	6,188'	15.5#	K-55	LT&C	New	

5. Proposed drilling mud program:

A water base mud system from surface to TD. Maximum anticipated mud weight is 9.3#/gallon.

A mud logging unit will be on location from 3700' to TD.

6. Coring, Logging and Testing Program:

Coring

None



Logging

GR/DLL/MSFL  
 GR/LDT/CNL/PEF  
 GR/Sonic  
 Dipmeter

Base surface casing to TD (GR to surface)  
 Base surface casing to TD  
 Base surface casing to TD (GR to surface display)  
 Minimum op charge.

Testing

Upper Ismay - Probable  
 Desert Creek - Probable

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Anticipated abnormal BHP or BHT:

No abnormal BHP or BHT are expected in this well.

Potentially hazardous conditions anticipated:

No H<sub>2</sub>S has been found, reported or is known to exist at these depths in this area.

8. Anticipated Starting Dates and Notifications of Operations

Required verbal notifications are summarized in Table I, attached. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (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.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329, "Monthly Report of Operations", starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM, Moab District Office, Moab, Utah 84532.

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

Should the well is successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

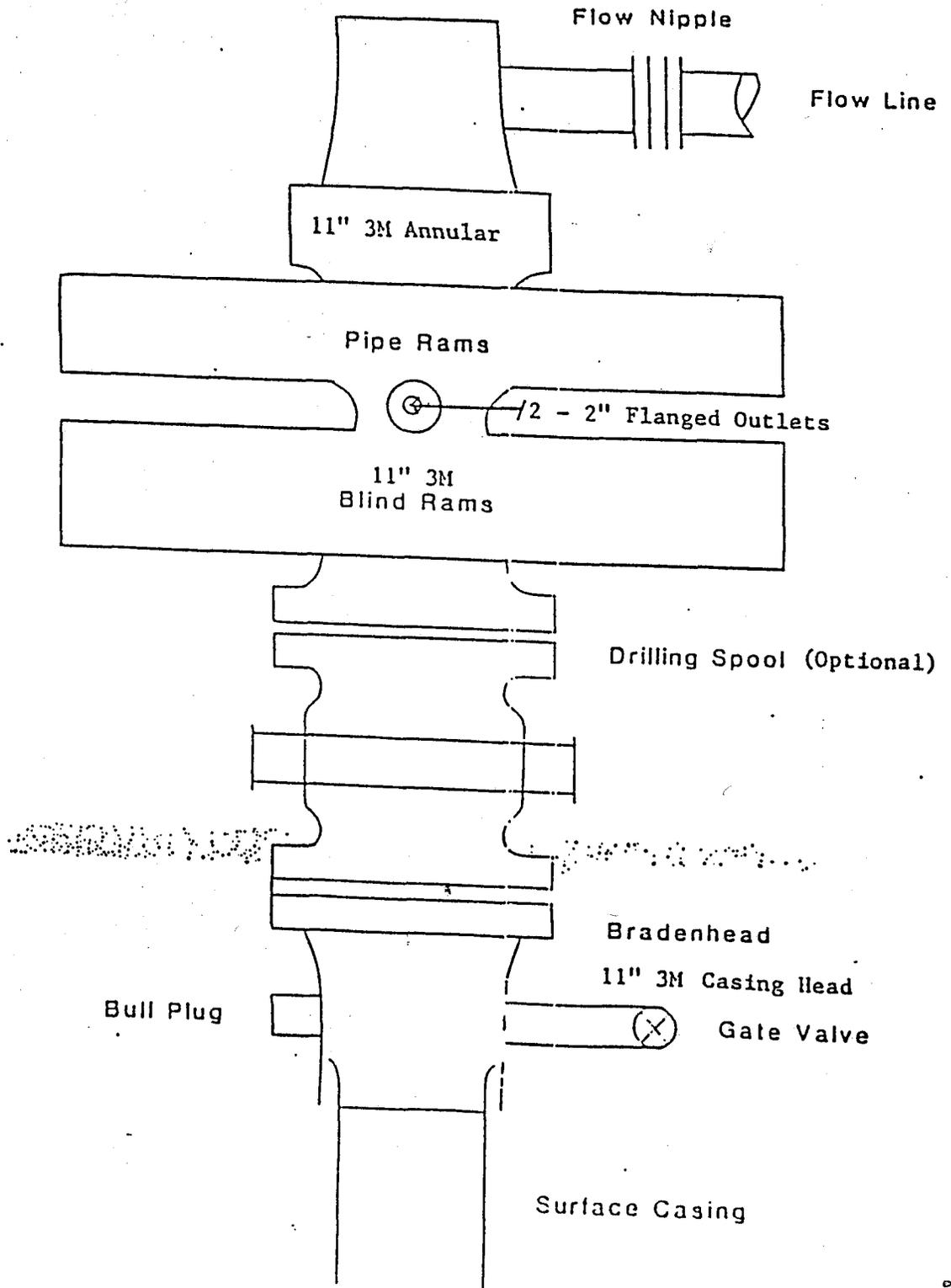
Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows:

Above ground pipe, information beaded-on with a welding torch.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch: "Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". " Lease number".

CONFIDENTIAL INFORMATION

TYPICAL B.O.P. INSTALLATION



Series 900 Double Gate B.O.P.,  
rated at 3000 psi Working Pressure.

When gas drilling operations begin a Shafter type 50 or equivalent rotating head is installed on top of the flow nipple and the flow line is converted into a blowie line.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point:  
16 miles northwest of Hatch Trading Post.
- b. Proposed route to location. (See attached Exhibit "1").
- c. Existing and new access shall be maintained in good or better condition.

2. Planned Access Roads (Blue)

- a. The maximum total width will be 30 feet for 1/4 mile.
- b. Maximum grade is N/A.
- c. Turnouts will be constructed as needed.
- d. Road is centerline flagged from existing lease roads.
- e. Road will be drained as needed.
- f. Access will be built to Class III road standards (18' Running Surface).

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

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

3. Location of Existing Wells (1 mile radius)

- a. Existing wells in the area are shown on attached Exhibit "1".

4. Location of Existing and/or Proposed Facilities if Well is Productive

Production facilities will be included in the Cherokee Tank Battery located NENW Section 14-37S-23E for off-lease storage and measurement.

The pipeline will be buried along access road to Central Tank Battery.

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. The color will be Desert Tan with Brown trim.

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

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and downstream for the remainder of the pad. 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 prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The 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 Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply

All water needed for drilling purposes will be hauled by Hay Hot Oil Service, a commercial water hauler, from a private source.

A temporary water use permit for this operation will be obtained from the Utah State Engineer, Mark Page, Price, Utah (657-1303).

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Materials

Native soil materials from drilling location and access trail, which is available, will be used. Any additional materials needed will be hauled in from authorized commercial sources.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

7. Methods for Handling Waste Disposal

The reserve pit will not be lined unless porous material is hit during construction of pit.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

All trash must be contained and disposed of by a trash basket or trash pit. Basket or pit must be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

If burning is required, a permit will be obtained from the State Fire Warden, George Kensly, (801) 587-2237.

Produced waste water will be confined to a (unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

8. Ancillary Facilities

Camp facilities will not be required.

9. Well Site Layout

Rig layout is shown on attached Exhibit "9a".

Cuts and fills are shown on attached Exhibit "9b".

The reserve pit will be located on east side of location.

The top 6 inches of soil material will be removed from the location and stockpiled separately on the Northeast corner.

Topsoil along the access will be reserved in place adjacent to the road.

Access to the well pad will be from the Northwest.

10. Plans for Restoration of Surface:

Immediately on completion of drilling, the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All disturbed areas will be recontoured to to the approximate natural contours.

The stockpiled topsoil will be spread evenly over the disturbed contours.

Prior to reseeding, all disturbed area, including the access rods, will be scarified and left with a rough surfc. Disturbed areas will be scarified six (6) inches deep, with rips eighteen (18) inches apart.

Seed will be broadcast at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage. Between October 1 and February 28.

6 lbs/acre crested wheatgrass (Agropyron desertorum)  
2 lbs/acre Western wheatgrass (Agropyron smithii)  
2 lbs/acre Fourwing saltbush (Atriplex canenscens)  
1 lbs/acre Desert bitterbrush (Purshia glandulosa)  
1/2 lbs/acre Yellow sweetclover.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

11. Surface Ownership: Federal  
Mineral Ownership: Federal

12. Other Information

The access and the well pad will be monitored by an archeologist during excavation.

A 36" x 60' culvert will be required in access road.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. 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.

A cultural clearance will be required before any construction begins. If any cultural resources are found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

13. Lessee or Operator's Field Representative and Certification

Meridian Oil Inc.  
P. O. Box 1855  
Billings, Montana 59103

1. Johnny L. Wright, Drilling Manager	406-256-4175	406-252-2889
2. Steve Cruickshank, Drilling Eng.	406-256-4164	406-252-0701
3. Douglas R. Harris, Reg. Drilling Eng.	406-256-4025	406-652-2381
4. John Pulley, Completion Supt.	406-256-4124	406-259-6156

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and, that the work associated with the operations proposed herein will be performed by MERIDIAN OIL INC. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

  
\_\_\_\_\_  
Douglas R. Harris  
Regional Drilling Engineer

\_\_\_\_\_  
12/10/87  
Date

TABLE 1

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 1 day prior to running and cementing surface casing;
- 1 day prior to pressure testing of BOPE and/or surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Steven Jones, Petroleum Engineer                      Office Phone: (801) 259-6111

Home Phone: (801) 259-7404

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS.



WELL PAD PLAN VIEW

Well 23-14



1" = 60'

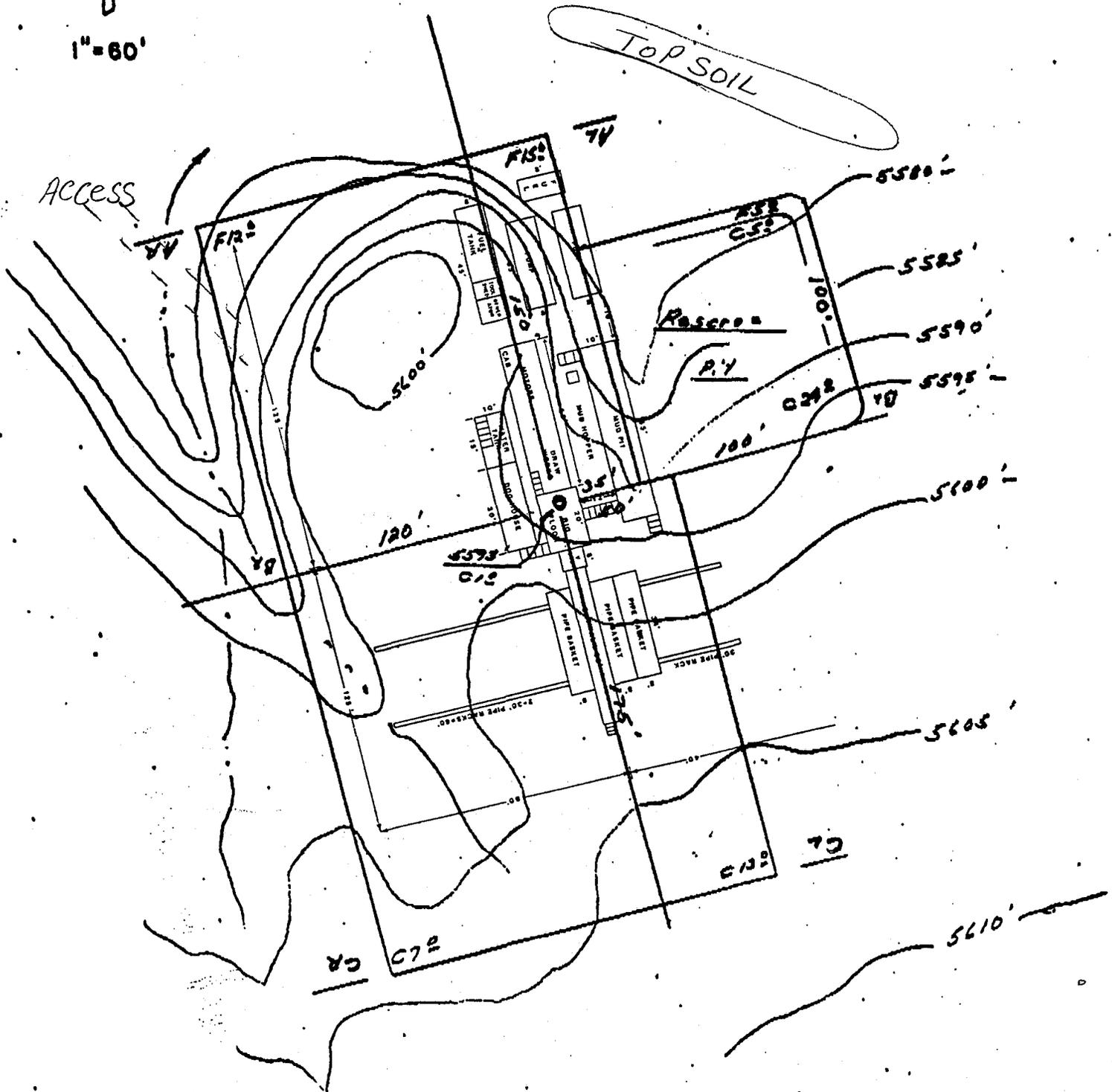


EXHIBIT "9a"  
Rig Layout

Cut   
Fill 

Scales: 1" = 60' H.  
1" = 30' V.

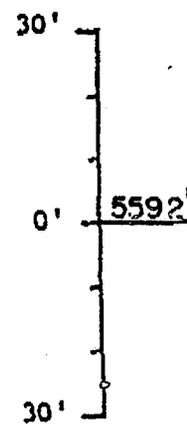
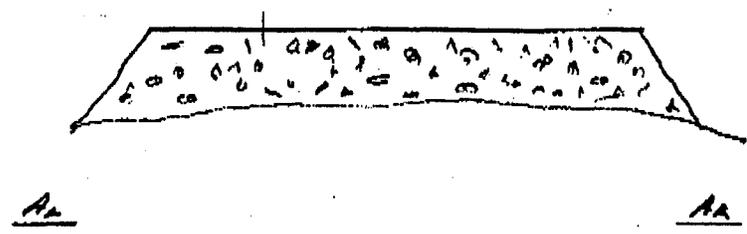
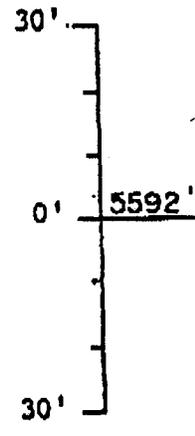
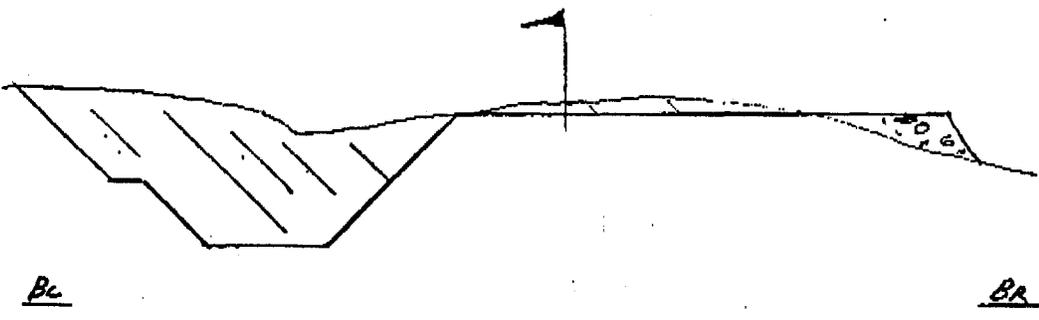
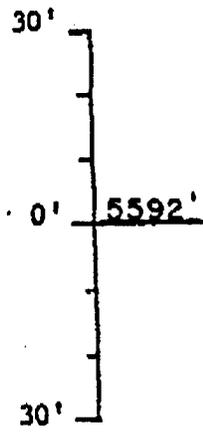
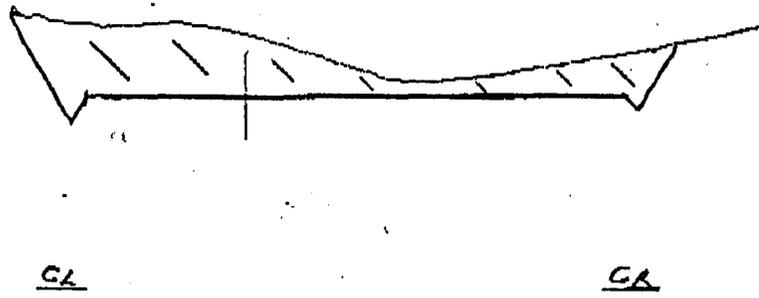


EXHIBIT "9b"  
Cuts and Fills  
(Cross Sections)

*CONFIDENTIAL*

030116

OPERATOR Meridian Oil, Inc DATE 12-18-87

WELL NAME Cherokee Fed. 23-14

SEC N8SW 14 T 37S R 23E COUNTY San Juan

43-037-31392  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

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

PROCESSING COMMENTS:

No other well within 920'  
Water & - #09-1499 (A62236)  
Exception request received 2/25/88

**CONFIDENTIAL  
 PERIOD  
 EXPIRED  
 ON 6-19-89**

APPROVAL LETTER:

- SPACING:  R615-2-3 \_\_\_\_\_ UNIT \_\_\_\_\_  R615-3-2
- \_\_\_\_\_ CAUSE NO. & DATE \_\_\_\_\_  R615-3-3

STIPULATIONS:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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

2. NAME OF OPERATOR

MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR

P. O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State, Federal or Indian laws, regulations, orders, or decrees)

At surface

NESW (2525' FSL - 2170' FWL)

At proposed prod. zone

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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

17 miles northwest of Hatch Trading Post

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

470'

16. NO. OF ACRES IN LEASE

1600

17. NO. OF ACRES ASSIGNED TO THIS WELL

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Rotary

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

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February 5, 1988

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CONFIDENTIAL INFORMATION

Oil and Gas Order #1

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Thirteen Point Surface Use Plan

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24.

SIGNED

*[Signature]*

TITLE

Regional Drilling Engineer

DATE

12/10/87

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

/s/ Kenneth V. Rhea

TITLE

Acting DISTRICT MANAGER

DATE

DEC 28 1987

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

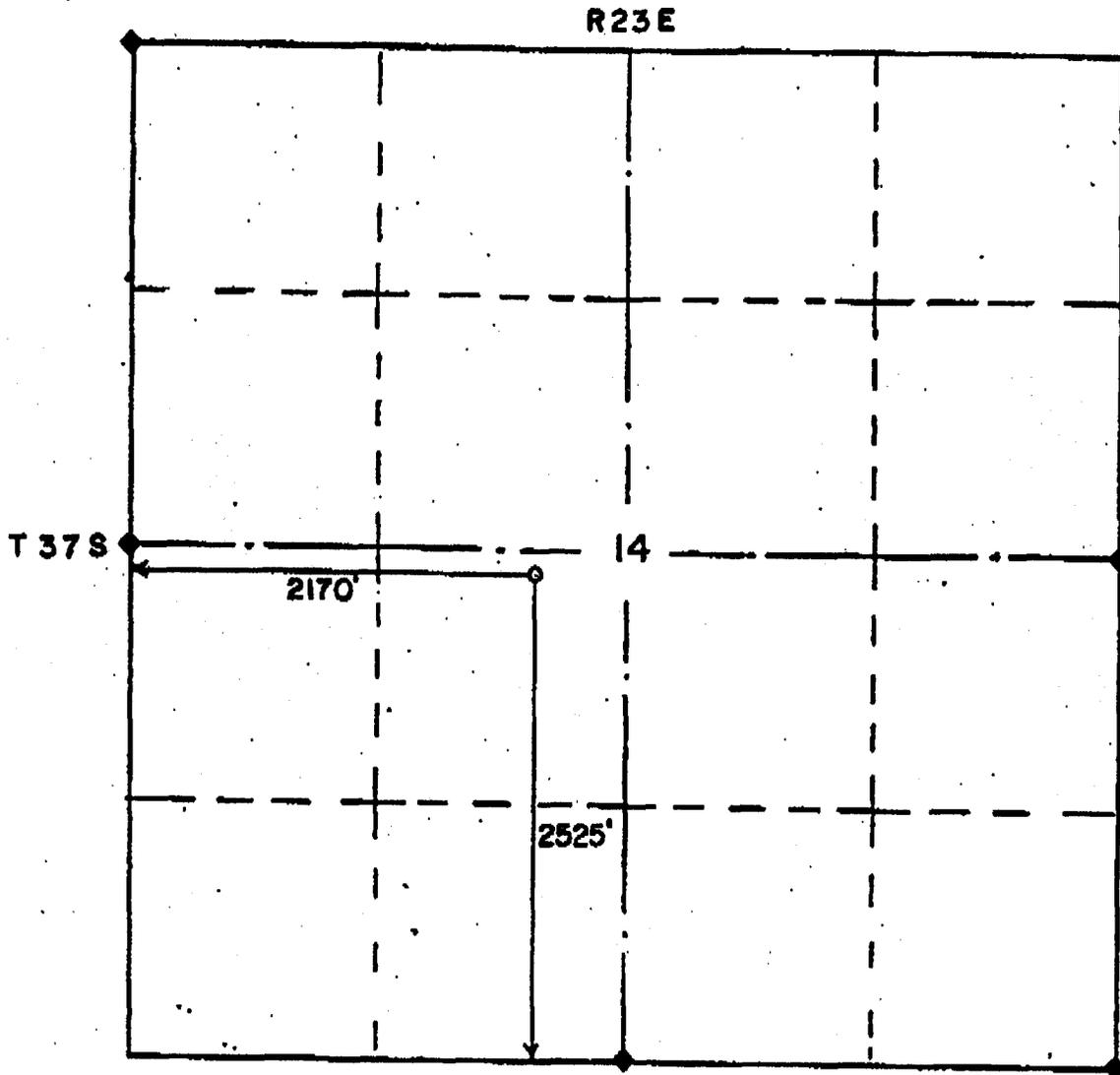
FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A CONDITIONS OF APPROVAL ATTACHED

DATED 1/1/80

\*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.

WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:  
MERIDIAN OIL, Cherokee Federal #23-14  
2525' FSL & 2170' FWL , grd. elevation 5593'  
Section 14, T.37 S., R.23 E., SLM  
San Juan County, Utah  
Alternate; 2500' FS & 2240' FW , 5597'grd.

The above plat is true and correct to my knowledge and belief.

4 November 1987

REGISTERED LAND SURVEYOR  
NO. 5705  
Gerald G. Huddleston  
Gerald G. Huddleston, LS  
STATE OF UTAH

Meridian Oil Inc.  
Well No. Cherokee-Federal 23-14  
Sec. 14, T. 37 S., R. 23 E.  
San Juan County, Utah  
Lease U-46825

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Meridian Oil Inc., is the bonded entity on this application. Liability will remain with the bonded party named above until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

B. THIRTEEN POINT SURFACE USE PLAN

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

TABLE 1

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

~~1 day prior to running and cementing surface casing;~~

~~1 day prior to pressure testing of BOPF and/or surface casing.~~

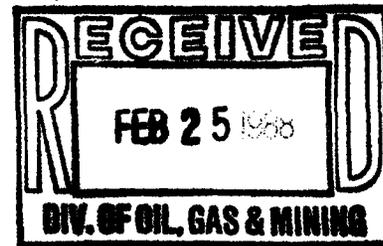
Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

<del>Steven Jones, Petroleum Engineer</del>	Office Phone: (801) 259-6111
DALE MANCHESTER,	Home Phone: (801) 259-7404 6038
Lynn Jackson, Chief, Branch of Fluid Minerals	Office Phone: (801) 259-6111
	Home Phone: (801) 259-7990
Paul Brown, I&E Coordinator	Office Phone: (801) 259-6111
	Home Phone: (801) 259-7018

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS.

MERIDIAN OIL



February 23, 1988

DIVISION OF OIL, GAS AND MINING  
Department of Natural Resources  
State of Utah  
355 West North Temple  
III Triad Center, Suite 350  
Salt Lake City, Utah 84108-1203  
Attn: Mr. Ron Firth

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 2/23/88  
BY: [Signature]

RE: Request for Exception  
#23-14 Cherokee Federal  
Location: NE/4SW/4  
Sec. 14, T37S-R23E, SLM

Gentlemen:

Meridian Oil Inc. plans to commence the captioned well at the following location:

2525' FSL, 2170' FWL, Section 14, T37S-R23E, SLM  
San Juan County, Utah

This location requires approval as an exception location under Rule 302.1 of the Oil and Gas Conservation General Rules effective December 2, 1985. Under the Rules, this exception may be granted administratively.

Meridian Oil Inc. owns 60% of the leasehold interest while C. C. Grynberg owns 40% of the leasehold interest in the spacing unit for the proposed 23-14 Cherokee Federal well. Grynberg and Meridian Oil also own the leasehold rights within a 460 foot radius of the proposed drillsite. Grynberg has been notified of the proposed drillsite in accordance with Rule 302 of the Oil and Gas Conservation Rules and has granted their consent to this location. Please see consent letter executed by C. C. Grynberg, attached hereto as Exhibit "C."

The reason for this requested exception location is geological. As shown on the plat attached hereto as Exhibit "B," it is not possible to drill the optimum location on the geological feature by drilling a legal location. The above drillsite is the optimum location in order to minimize the risk of a dry hole and to avoid drainage of offsetting wells.

Division of Oil, Gas and Mining  
February 23, 1988  
Page 2

A Lease Ownership Plat is attached as Exhibit "A" to this letter. Exhibit "B" depicts the geological feature. This information is proprietary and very sensitive and therefore, it is requested that the State maintain this plat in a confidential file.

Thank you for your consideration in this matter.

Very truly yours,

MERIDIAN OIL INC.

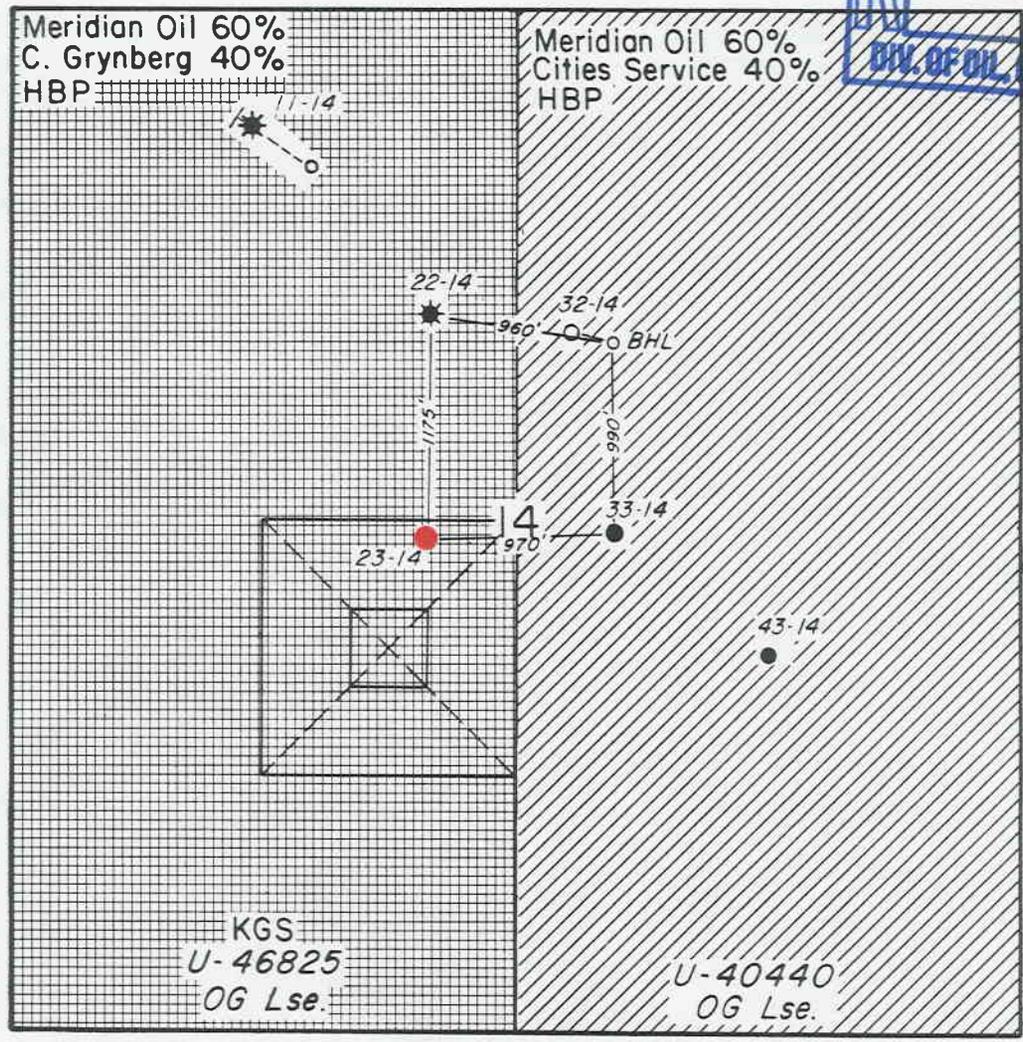
*William C. Mitchell*

William C. Mitchell  
Landman

Doc. 926  
Attachments

# EXHIBIT "A"

**RECEIVED**  
 FEB 25 1988  
 DIV. OF OIL, GAS & MINING



T  
37  
S

R 23 E

KGS  
 U-46825  
 OG Lse.

U-40440  
 OG Lse.

## LEGEND

-  Meridian Oil/Cities Service lease
-  Meridian Oil/C. Grynberg lease
-  Proposed location: 23-14 Cherokee Federal, 2525' FSL, 2170' FWL, sec. 14, T 37S-R23E.
-  400 ft. "WINDOW" (center of the NESW, sec. 14, T 37S-R23E) Pursuant to order #302.

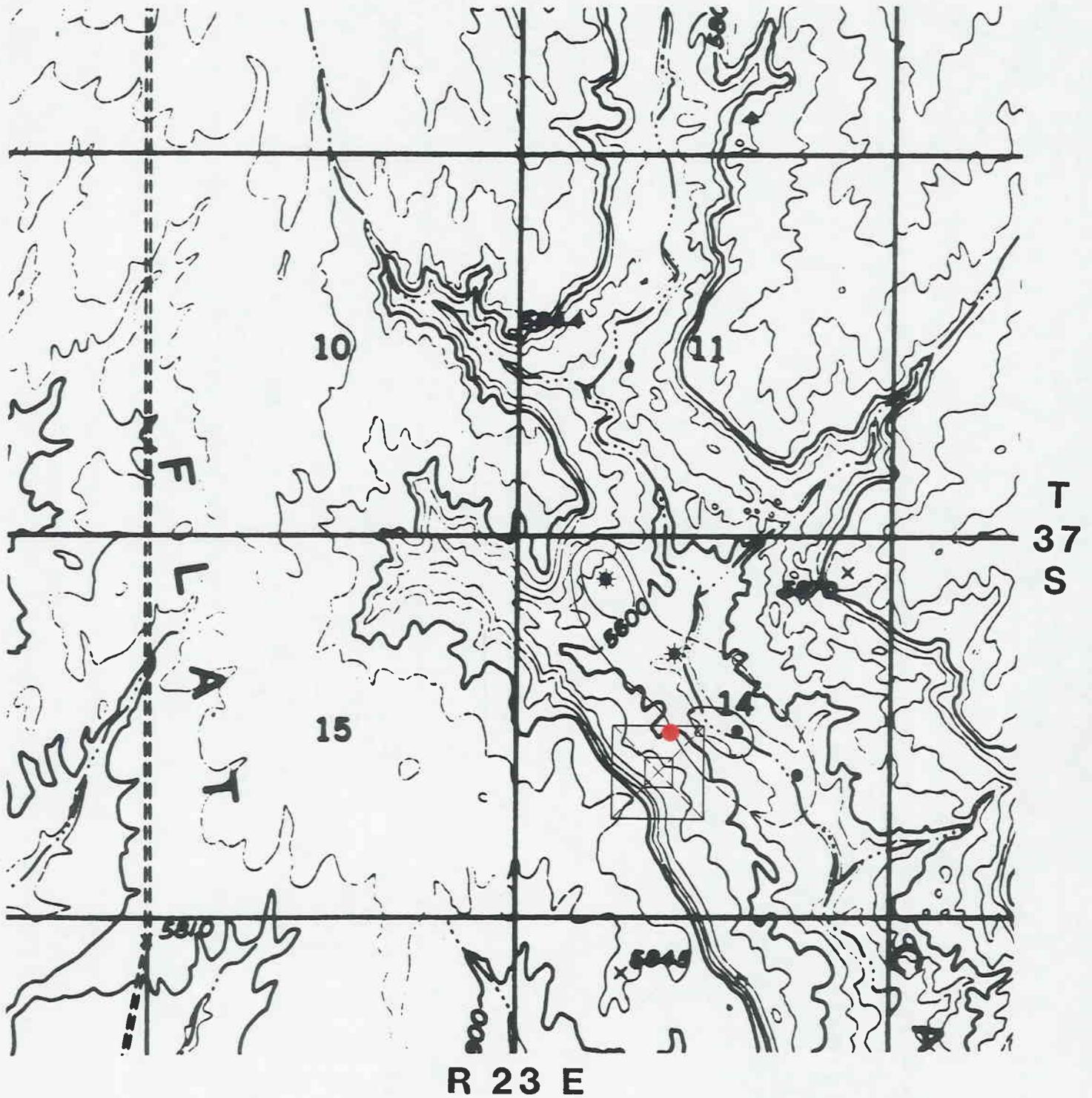
# MERIDIAN OIL

Bill Mitchell  
 LANDMAN  
 T.S. Fiore  
 DRAFTER/GEOTECH  
 27 October 1987  
 DATE  
 Denver  
 OFFICE LOC.  
 REVISED DATE  
 MAP NUMBER

**CHEROKEE PROSPECT**  
**San Juan County, Utah**

Scale - 1" = 1000 Feet C.I.

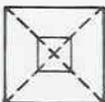
# EXHIBIT "B"



★ Producing Gas Well

● Producing Oil Well

● Proposed Location #23-14 Cherokee Fed.  
2525' FSL, 2170' FWL, sec. 14, T 37S, R 23E



400 ft. "Window" (center of the NESW, sec. 14,  
T 37S, R 23E) Pursuant to order # 302.

## MERIDIAN OIL

### CHEROKEE PROSPECT

T 37 S, R 23 E

### SAN JUAN COUNTY, UTAH

Scale: 1"=2000'

**MERIDIAN OIL**

February 18, 1988

Celeste C. Grynberg  
5000 S. Quebec St., Ste. 500  
Denver, CO 80237-2707  
Attn: Ms. Susan Stone

RE: Request for Concurrence  
of Exception Location  
#23-14 Cherokee Federal well  
Section 14, T37S-R23E  
San Juan County, Utah

Dear Ms. Stone:

Meridian Oil Inc. plans to propose a development well in the NE/4SW/4 of the captioned section at the following location:

2525' FSL, 2170' FWL of Section 14, T37S-R23E.

This well will be proposed at an unorthodox location in order to minimize the risk of a dry hole. In order that Meridian may proceed with approval of the APD for this well, please execute and return a copy of this letter to the undersigned to signify that Celeste C. Grynberg has no objection to this proposed location.

As soon as the AFE is prepared, Meridian will request that Celeste C. Grynberg elect whether or not she desires to participate in the drilling of the well.

Your cooperation in this matter is appreciated.

Very truly yours,

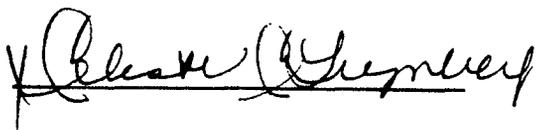
MERIDIAN OIL INC.



William C. Mitchell  
Landman

Celeste C. Grynberg hereby grants her approval of the above proposed well site.

CELESTE C. GRYNBERG

By:  Date: 2/23/88

Doc. 883



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

February 26, 1988

N7930

Meridian Oil, Inc.  
P. O. Box 1855  
Billings, Montana 59103

Gentlemen:

Re: Cherokee Federal 23-14 - NE SW Sec. 14, T. 37S, R. 23E  
2525' FSL, 2170' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules.

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 of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. 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.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Meridian Oil, Inc.  
Cherokee Federal 23-14  
February 26, 1988

6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. 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 43-037-31392.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson

8159T

# CONFIDENTIAL

030908

DIVISION OF OIL, GAS AND MINING

## SPODDING INFORMATION

*DM.*  
API #43-037-31392

NAME OF COMPANY: MERIDIAN OIL COMPANY

WELL NAME: CHEROKEE FEDERAL 23-14

SECTION NE SW 14 TOWNSHIP 37S RANGE 23E COUNTY San Juan

DRILLING CONTRACTOR Arapahoe

RIG # 11

SPODDED: DATE 3-8-88

TIME \_\_\_\_\_

How Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Jimmy Reeder

TELEPHONE # 1-778-2278 Ext. 102

DATE 3-8-88 SIGNED JRB

# BAKER SERVICE TOOLS

1616 Glenarm — Suite 1350  
Denver, CO 80202

Phone (303) 573-8027

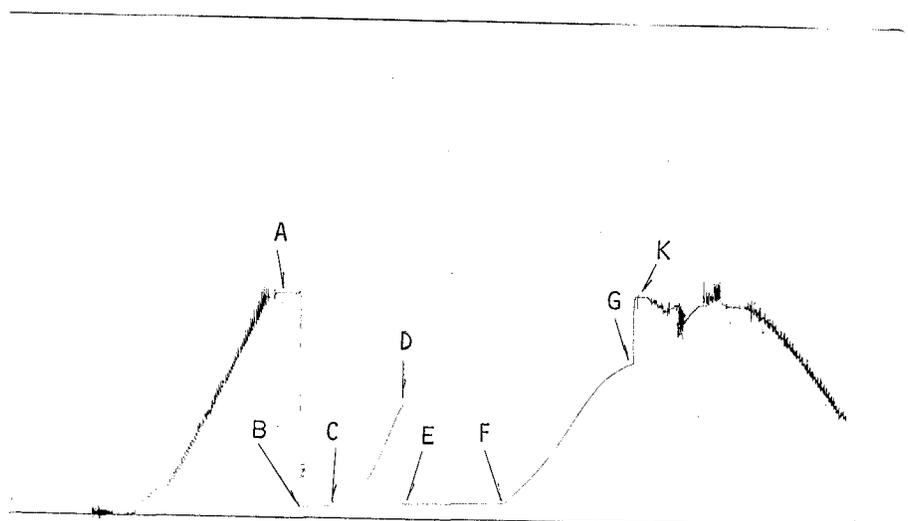
Contractor <u>Arapahoe Drilling</u>	Surface Choke <u>1/4"</u>	Mud Type <u>--</u>
Rig No. <u>11</u>	Bottom Choke <u>3/4"</u>	Weight <u>9.0</u>
Spot <u>NE/SW</u>	Hole Size <u>7 7/8"</u>	Viscosity <u>32</u>
Sec. <u>14</u>	Core Hole Size <u>--</u>	Water Loss <u>--</u>
Twp. <u>37 S</u>	DP Size & Wt. <u>4 1/2" 16.60</u>	Filter Cake <u>--</u>
Rng. <u>23 E</u>	Wt. Pipe <u>None</u>	Resistivity <u>.8 @ 65 °F</u>
Field <u>Wildcat</u>	I.D. of DC <u>2 1/4"</u>	<u>7,919</u> Ppm. NaCl
County <u>San Juan</u>	Length of DC <u>627'</u>	B.H.T. <u>128</u> °F
State <u>Utah</u>	Total Depth <u>5939'</u>	Co. Rep. <u>Jim Reader</u>
Elevation <u>5606' KB</u>	Type Test <u>Conventional</u>	Tester <u>David Dolyniuk</u>
Formation <u>Ismay</u>	Interval <u>5889' - 5939'</u>	Baker Dist. <u>Farmington NM</u>

Operator \_\_\_\_\_  
 Ticket No. 2770  
 Date 3/19/88  
 MERIDIAN OIL, INC. 43-037-31392  
 "TIGHT HOLE" Ø-1  
 Well Name & No. \_\_\_\_\_  
 Location \_\_\_\_\_  
 County, State \_\_\_\_\_  
 CHEROKEE FEDERAL #23-14  
 NE/SW S-14 T-37S R-23E  
 SAN JUAN COUNTY, NM  
 DST No. 1  
 Interval 5889' - 5939'  
 Formation ISMAY

	REPORTED	CORRECTED	
Opened Tool @	<u>17:55</u>		hrs.
Flow No. 1	<u>30</u>	<u>28</u>	min.
Shut-In No. 1	<u>60</u>	<u>62</u>	min.
Flow No. 2	<u>90</u>	<u>92</u>	min.
Shut-In No. 2	<u>120</u>	<u>118</u>	min.
Flow No. 3	<u>None Taken</u>		min.
Shut-In No. 3	<u>"</u>	<u>"</u>	min.

Recorder Type <u>Kuster K-3</u>
No. <u>16815</u> Cap. <u>6100</u> psi
Depth <u>5929</u> feet
Inside _____ Clock _____
Outside <u>X</u> Range <u>12</u> hrs.

Initial Hydrostatic	A	<u>2983.9</u>
Final Hydrostatic	K	<u>2972.1</u>
Initial Flow	B	<u>124.6</u>
Final Initial Flow	C	<u>134.8</u>
Initial Shut-In	D	<u>1529.3</u>
Second Initial Flow	E	<u>179.8</u>
Second Final Flow	F	<u>194.4</u>
Second Shut-In	G	<u>2102.2</u>
Third Initial Flow	H	_____
Third Final Flow	I	_____
Third Shut-In	J	_____



Pipe Recovery: 300' Gas cut mud w/trace of oil = 1.47 bbl.

Resistivity:  
 Top: .5 @ 65°F - .27 @ Res Temp = 13,101 ppm NaCl., 7,964 ppm Cl.  
 Bottom: .5 @ 65°F - .27 @ Res Temp = 13,101 ppm NaCl., 7,964 ppm Cl.

RECORDED

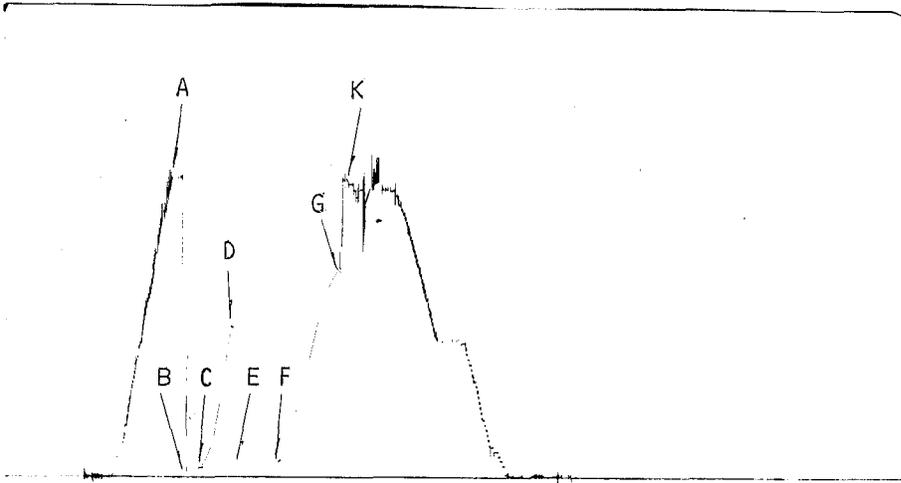
MAR 28 1988

# BAKER SERVICE TOOLS

Meridan Oil, Inc.  
Operator

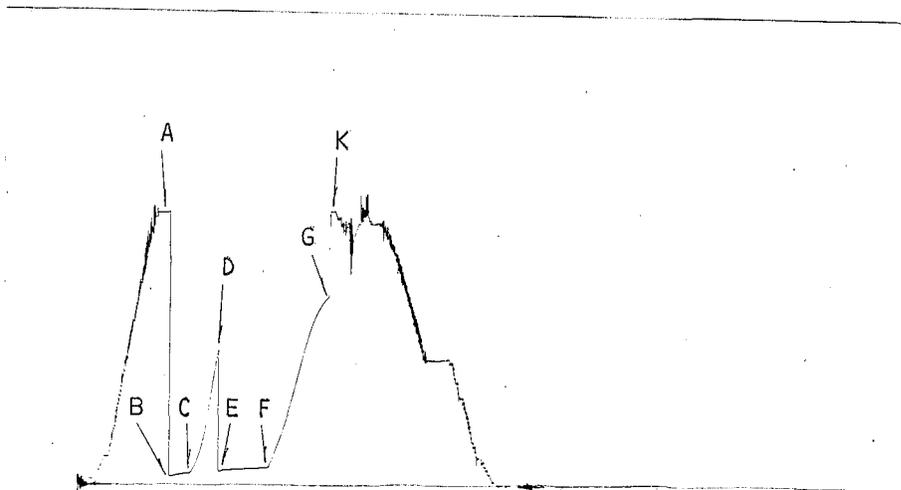
Cherokee Federal #23-14  
Well Name and No.

1  
DST No.



Recorder Type Kuster K-3  
No. 24645 Cap. 4450 psi  
Depth 5870 feet  
Inside  Clock  
Outside Range 24 hrs.

Initial Hydrostatic	A	<u>2929.2</u>
Final Hydrostatic	K	<u>2915.9</u>
Initial Flow	B	<u>73.1</u>
Final Initial Flow	C	<u>103.6</u>
Initial Shut-In	D	<u>1521.6</u>
Second Initial Flow	E	<u>142.6</u>
Second Final Flow	F	<u>167.5</u>
Second Shut-In	G	<u>2062.6</u>
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	



Recorder Type Kuster K-3  
No. 7661 Cap. 4900 psi  
Depth 5909 feet  
Inside  Clock  
Outside Range 24 hrs.

Initial Hydrostatic	A	<u>2869.2</u>
Final Hydrostatic	K	<u>2857.0</u>
Initial Flow	B	<u>94.8</u>
Final Initial Flow	C	<u>131.3</u>
Initial Shut-In	D	<u>1418.5</u>
Second Initial Flow	E	<u>151.0</u>
Second Final Flow	F	<u>187.5</u>
Second Shut-In	G	<u>1980.5</u>
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	





# BAKER

## SERVICE TOOLS

Meridian Oil, Inc.  
Operator

Cherokee Federal #23-14  
Well Name and No.

1  
DST No.

RECORDER NO. 16815 DEPTH 5929 FT.

### INITIAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
0	124.6
5	125.9
10	127.2
15	129.1
20	130.1
25	132.0
28	134.8

RECORDER NO. 16815 DEPTH 5929 FT.

### FINAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(P SIG)</u>
0	179.8
5	174.8
10	176.4
15	178.2
20	179.5
25	181.1
30	181.6
35	182.7
40	182.9
45	183.6
50	184.1
55	184.9
60	186.5
65	187.8
70	189.1
75	190.4
80	191.8
85	193.4
90	194.1
92	194.4

# BAKER

## SERVICE TOOLS

Meridian Oil, Inc.  
Operator

Cherokee Federal #23-14  
Well Name and No.

1  
DST No.

RECORDER NO. 16815 DEPTH 5929 FT.

### INITIAL SHUT-IN

INITIAL FLOW TIME: T = 28 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(P SIG)</u>	<u>DP(P SIG)</u>
0		134.8	0.0
1	1.462	141.7	7.0
2	1.176	147.6	12.8
3	1.014	154.5	19.7
4	.903	161.2	26.4
5	.820	169.2	34.4
6	.753	175.6	40.8
7	.699	183.6	48.8
8	.653	191.6	56.9
9	.614	200.2	65.4
10	.580	208.5	73.7
12	.523	228.9	94.1
14	.477	249.8	115.0
16	.439	271.7	136.9
18	.407	297.7	162.9
20	.380	325.8	191.0
22	.357	353.3	218.5
24	.336	382.3	247.5
26	.317	419.8	285.0
28	.301	459.4	324.6
30	.286	502.8	368.1
35	.255	636.0	501.2
40	.230	786.7	651.9
45	.210	958.4	823.6
50	.193	1135.0	1000.2
55	.179	1314.9	1180.1
60	.166	1472.8	1338.0
62	.162	1529.3	1394.5

EXTRAPOLATED PRESSURE: INDETERMINATE

# BAKER

## SERVICE TOOLS

Meridian Oil, Inc.  
Operator

Cherokee Federal #23-14  
Well Name and No.

1  
DST No.

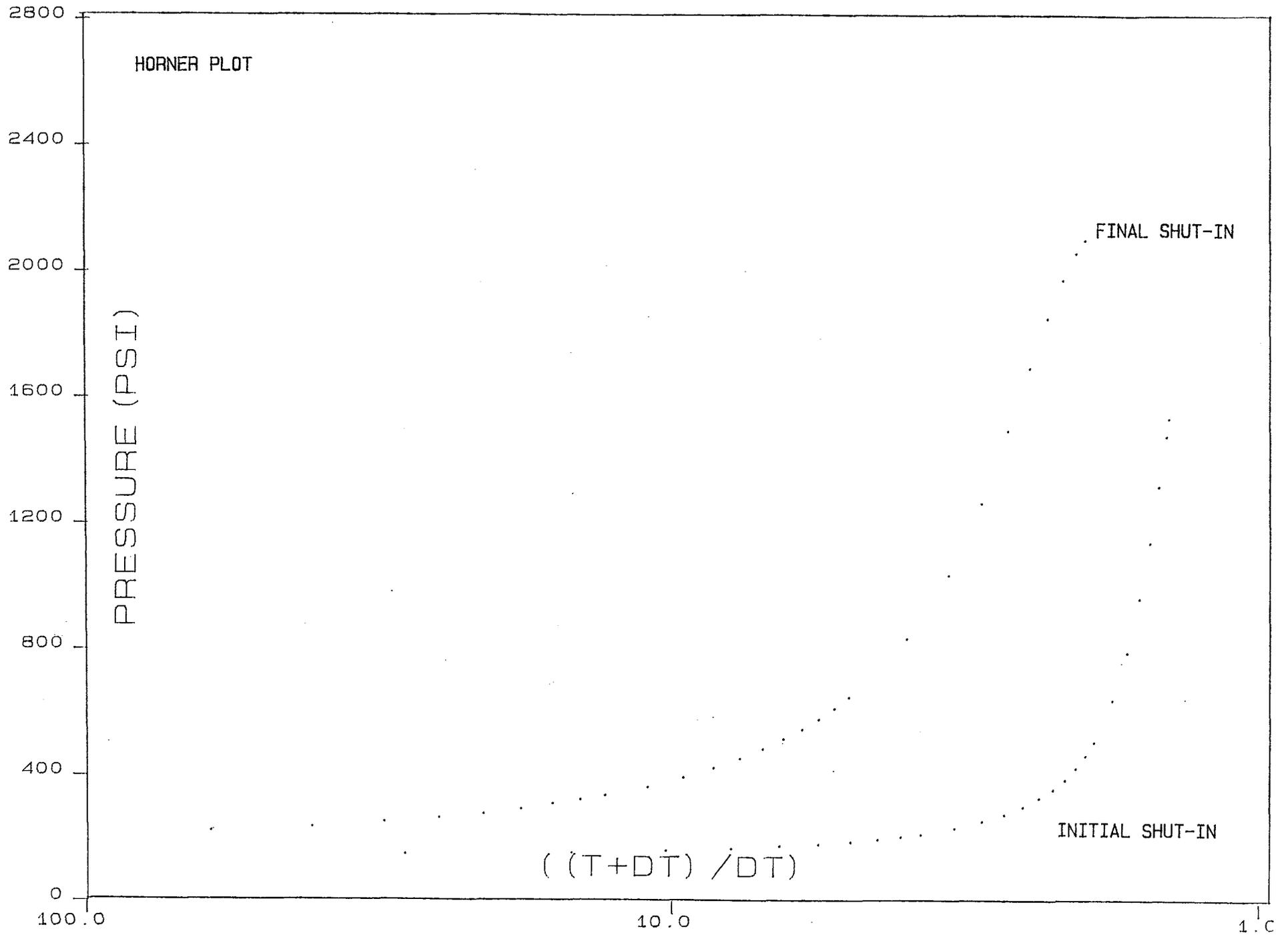
RECORDER NO. 16815      DEPTH 5929 FT.

FINAL SHUT-IN

TOTAL FLOW TIME: T = 120 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)	DP(P SIG)
0		194.4	0.0
1	2.083	207.9	13.5
2	1.785	223.4	29.0
3	1.613	236.6	42.2
4	1.491	252.8	58.4
5	1.398	266.5	72.1
6	1.322	279.1	84.7
7	1.259	295.2	100.9
8	1.204	311.6	117.2
9	1.156	323.9	129.5
10	1.114	337.5	143.1
12	1.041	363.8	169.5
14	.981	394.7	200.3
16	.929	425.5	231.1
18	.885	455.6	261.2
20	.845	486.8	292.4
22	.810	518.1	323.7
24	.778	547.7	353.3
26	.749	580.4	386.1
28	.723	613.9	419.5
30	.699	649.9	455.5
40	.602	836.3	641.9
50	.531	1038.1	843.7
60	.477	1266.9	1072.5
70	.434	1496.1	1301.7
80	.398	1695.3	1500.9
90	.368	1853.2	1658.8
100	.342	1974.2	1779.9
110	.320	2060.1	1865.7
118	.305	2102.2	1907.8

EXTRAPOLATED PRESSURE: INDETERMINATE



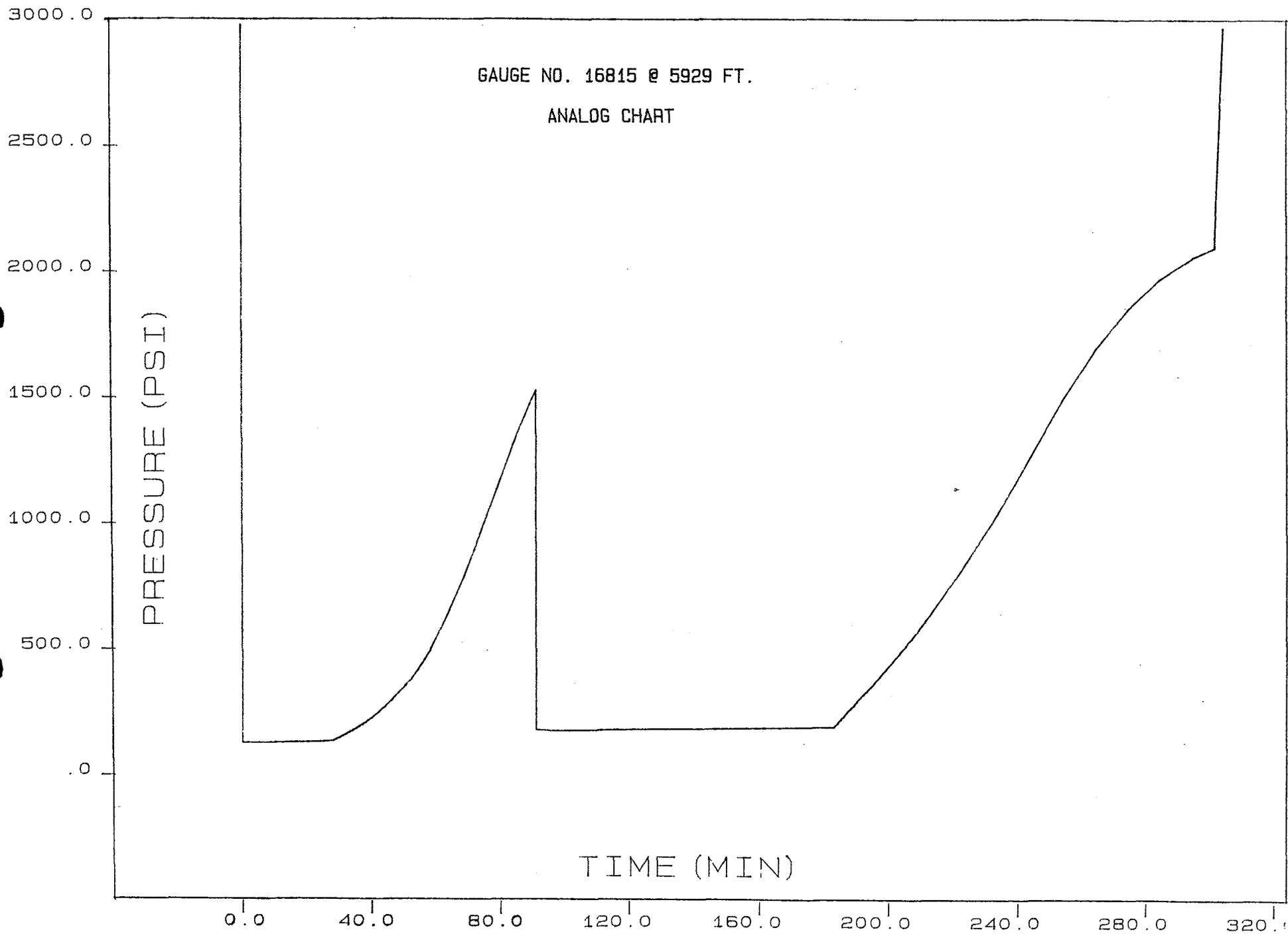
LDG/LDG PLOT

FINAL SHUT-IN

INITIAL SHUT-IN

LOGGING MIC 3 X 5 CYCLES  
REUTERS ESSER CO. WASH. D. C.

47-33



# BAKER SERVICE TOOLS

DISTRIBUTION OF FINAL REPORTS

Meridian Oil, Inc.  
Operator

Cherokee Federal #23-14  
Well Name and No.

MERIDIAN OIL INC. 2  
ATTN ARTHUR H. MOORE  
5613 DTC PARKWAY  
ENGLEWOOD CO 80111

MERIDIAN OIL INC. 2  
ATTN JOHNNY WRIGHT  
175 NORTH 27TH STREET  
BILLINGS MT 59101

GRYNBERG PETOLEUM 1  
ATTN JACK GRYNBERG  
5000 S. QUEBEC SUITE 500  
DENVER CO 80227-2707

UT DEPT OF NATURAL RESOURCES 1  
ATTN WELL RECORDS  
355 W. NORTH TEMPLE SUITE 350  
SALT LAKE CITY UT 84180

BUREAU OF LAND MANAGEMENT 1  
ATTN LYNN JACKSON  
P.O. BOX 970  
MOAB UT 84532

Form 3160-4  
(November 1983)  
(formerly 9-330)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION:  
NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RENVR.  OIL \_\_\_\_\_

2. NAME OF OPERATOR  
MERIDIAN OIL INC.

3. ADDRESS OF OPERATOR  
P.O. Box 1855, Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  
At surface NESW (2525' FSL - 2170' FWL)  
At top prod. interval reported below Same  
At total depth Same

RECEIVED  
APR 07 1988

DIVISION OF  
OIL, GAS & MINING

CONFIDENTIAL

14. PERMIT NO. 43-037-31392  
DATE ISSUED 2-26-88

5. LEASE DESIGNATION AND SERIAL NO.

U-46825

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Cherokee-Federal

9. WELL NO.

23-14

10. FIELD AND POOL, OR WILDCAT

Undesignated

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

Section 14-37S-23E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUNDED 3-8-88  
16. DATE T.D. REACHED 3-19-88  
17. DATE COMPL. (Ready to prod.) N/A  
18. ELEVATIONS (DF, RKB, RT, GE, ETC.)\* 5593' GL  
19. ELEV. CASINGHEAD 5606' KB

20. TOTAL DEPTH, MD & TVD 6182'  
21. PLUG, BACK T.D., MD & TVD  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY  
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DLM/SFL, BHCS, CNLD, Cyberlook *mid*  
27. WAS WELL CORRED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	2054	12-1/4"	855 sxs	None

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

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL (MD)	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A		5500'-5800'	115 sxs Class B
		2100'-1800'	105 sxs Class B
		Sfc	5 sxs Class B

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
N/A		N/A					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED D.P.H. [Signature] TITLE Regional Drilling Engineer DATE 4-5-88

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Upper Ismay	5889'	5939'	DST Times: 30-60-90-120. BHT: 128°F. No cushion. Reversed Rec: 300' GCM. Sample Chamber: 125#, 2000 cc total volume, 250 cc oil, 1500 cc GC, 250 cc emulsion. Pressures: HP 2949-2931; FP 108-147; SIP 1525-2037.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Shinarump	2636	
Coconino	2865	
Organ Rock	2950	
Cutler	3098	
Hermosa	4750	
Upper Ismay	5793	
Hovenweep	5944	
Lower Ismay	5973	
Gothic	6020	
Desert Creek	6055	
Chimney Rock	6124	
Akah	6150	

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-1" for such proposals.)

RECEIVED  
JUN 29 1988

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-46825	
2. NAME OF OPERATOR Meridian Oil Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
3. ADDRESS OF OPERATOR P.O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NESW (2525' FSL - 2170' FWL)		8. FARM OR LEASE NAME Cherokee-Federal	
14. PERMIT NO. 43-037-31392		9. WELL NO. 23-14	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5606' KB		10. FIELD AND POOL, OR WILDCAT Undesignated	
		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA Section 14-37S-23E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

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

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

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.)

Set plugs as follows: 5500'-5800' w/115 sxs Class "B"  
2100'-1800' w/105 sxs Class "B"  
Sfc plug w/5 sxs Class "B"

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
<del>XXXXXXXXXX</del>	
- FILE	

CONFIDENTIAL

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

SIGNED D.R. Harris TITLE Regional Drilling Engineer DATE 6-20-88

(This space for Federal or State office use)

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

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

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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.)

**RECEIVED**  
JUN 23 1988

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-46825
2. NAME OF OPERATOR Meridian Oil Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NESW (2525' FSL - 2170' FWL)		8. FARM OR LEASE NAME Cherokee-Federal
14. PERMIT NO. 43-037-31392		9. WELL NO. 23-14
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5606' KB		10. FIELD AND POOL, OR WILDCAT Undesignated
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Section 14-37S-23E
		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) Reclamation <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>			

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

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

Location has been recontoured & reclaimed. Plan to reseed location in fall of 1988.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
I-TAS	
[REDACTED]	
2 - FILE	

**CONFIDENTIAL**

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

SIGNED J.P. Han TITLE Regional Drilling Engineer DATE 6-20-88

(This space for Federal or State office use)

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

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

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on 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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-46825
2. NAME OF OPERATOR MERIDIAN OIL INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NESW (2525' FSL - 2170' FWL)		8. FARM OR LEASE NAME Cherokee-Federal
14. PERMIT NO. 43-037-31392		9. WELL NO. 23-14
15. ELEVATIONS (Show whether DF, ST, CR, etc.) 5606' KB		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 14-37S-23E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

RECEIVED  
DEC 05 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 OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Reclamation</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Location has been recontoured. Will reseed in Spring 1989.

CONFIDENTIAL

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

SIGNED [Signature] TITLE Sr. Operations Technician DATE 12/1/88

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

MEMO TO WELL FILE

July 10, 1991

These wells are PA'd and have received a final abandonment notice from the BLM:

<u>NAME/API</u>	<u>LOCATION</u>	<u>FAN DATE</u>
Cherokee Fed 23-14 43-037-31392	Sec. 14 T. 37S R. 23E	5-20-91
8807 JV-P Havasu #1 43-037-31435	Sec. 01 T. 38S R. 23E	5-22-91
Dec Federal #1 43-037-31366	Sec. 10 T. 38S R. 24E	5-22-91
Brusheart Fed #1 43-037-31379	Sec. 17 T. 38S R. 24E	5-22-91
Black Steer Fed 7-25 43-037-31461	Sec. 25 T. 38S R. 24E	5-22-91
Wexpro-9 43-037-30604	Sec. 18 T. 36S R. 26E	6-11-91
Muckleshoot Fed 15-32 43-037-31380	Sec. 15 T. 38S R. 25E	6-11-91