

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE ^X WATER SANDS LOCATION INSPECTED SUB REPORT abd

DATE FILED **4-10-86**

LAND FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO **U-52333** INDIAN

DRILLING APPROVED: **4-21-86 - Exception Location**

SPOUDED IN

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION

GRAVITY A.P.I.

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION:

DATE ABANDONED: **LA 8-16-87**

FIELD: **KIVA**

UNIT

COUNTY: **SAN JUAN**

WELL NO **NAVAJO FEDERAL 22-4** API **#43-037-31260**

LOCATION **2300' FNL** FT. FROM (N) (S) LINE. **1900' FWL** FT. FROM (E) (W) LINE **SE NW** 1/4 - 1/4 SEC **4**

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
39S	25E	4	MERIDIAN OIL INC.				

MERIDIAN OIL

April 8, 1986

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

Attention: Arlene Sollis

Re: Application for Permit to Drill
22-4 Navajo-Federal
SENE Section 4-39S-25E
San Juan County, Utah
Federal Lease No. U-52333

RECEIVED
APR 10 1986

**DIVISION OF
OIL, GAS & MINING**

Gentlemen:

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

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,



S. S. Nelson
Sr. Operations Technician

ssn

Encl

1175N

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 requirements.)
 At surface: SENW (2300' FNL - 1900' FWL)
 At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.
 U-52333

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 - -

7. UNIT AGREEMENT NAME
 - -

8. FARM OR LEASE NAME
 Navajo-Federal

9. WELL NO.
 22-4

10. FIELD AND POOL, OR WILDCAT
 Kiva

11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA
 Section 4-39S-25E

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6 miles east Hatch Trading Post

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
 361'

16. NO. OF ACRES IN LEASE
 2920.8

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.
 1200'

19. PROPOSED DEPTH
 5865'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4886' GL (graded)

22. APPROX. DATE WORK WILL START*
 July 15, 1986

CONFIDENTIAL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	80'	Redi-Mix to surface
11	8-5/8	24#	2,000'	Two stage, DV tool @ 1500',
11	8-5/8	32#	3,300'	Cmt to sfc w/1500 sx "B" Lite.
7-7/8	5-1/2	15.5#	5,865'	Single stage, top of cmt @ 2800'. Caliper log + 40% excess, "B" Lite

RECEIVED
APR 10 1986

Oil and Gas Order #1
 Attachments:
 Survey Plat
 Eight Point Drilling Program
 Thirteen Point Surface Use Plan

DIVISION OF
 OIL, GAS & MINING

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: [Signature] TITLE: Sr. Drilling Engineer DATE: 3/31/86

(This space for Federal or State office use)

PERMIT NO. 43-037-31260 APPROVAL BY: APPROVED BY THE STATE

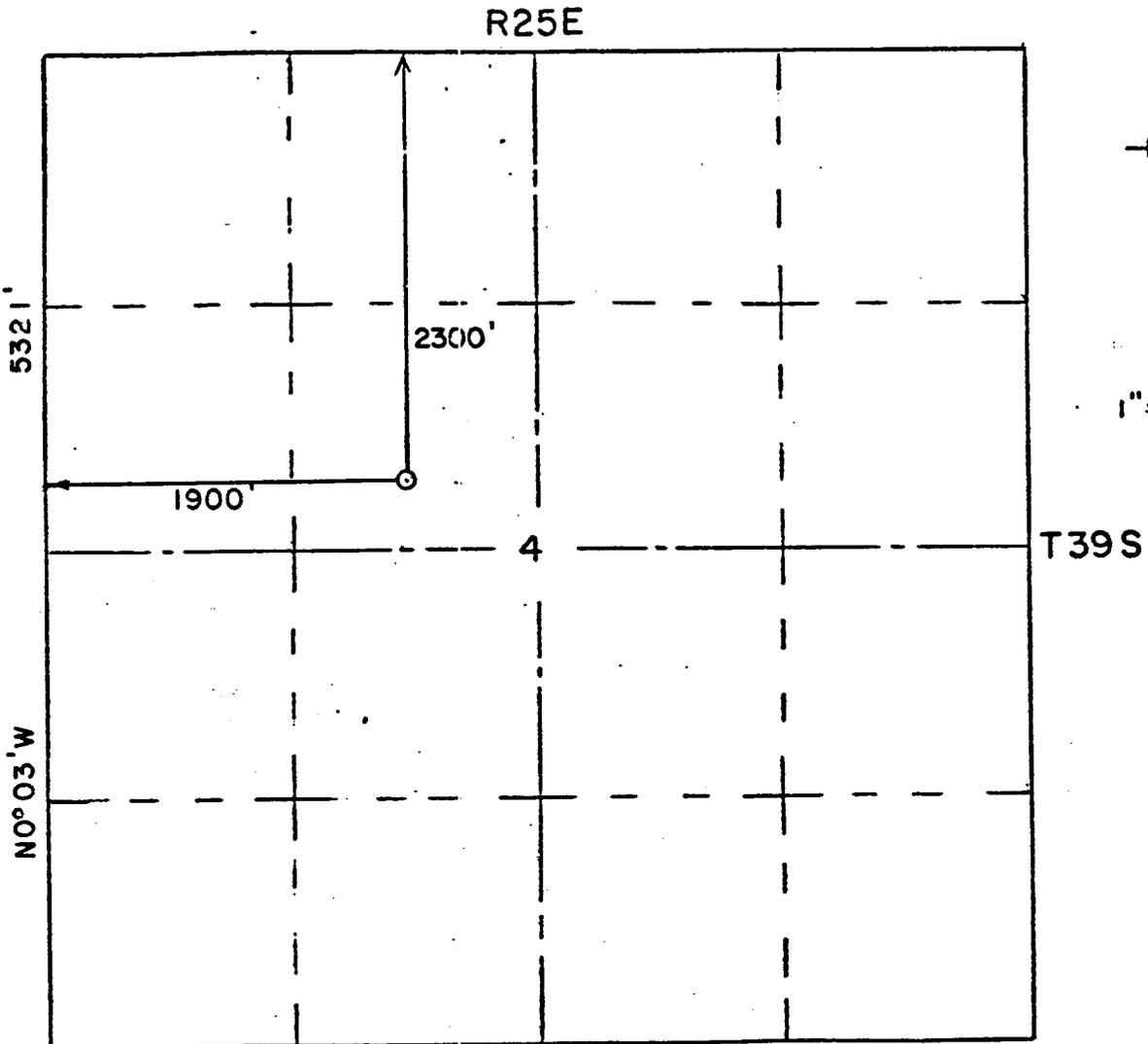
APPROVED BY: _____ TITLE: OIL, GAS, AND MINING

CONDITIONS OF APPROVAL, IF ANY:

DATE: 4-21-86
 BY: [Signature]

*See Instructions On Reverse Side
 WELL SPACING: 302-1

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

MERIDIAN OIL
22-4 NAVAJO-FEDERAL
2300' FN & 1900' FW
SECTION 4, T39S, R25E, SLM
SAN JUAN COUNTY, UTAH
GROUND ELEVATION 4889'

REFERENCES:

200' SOUTH 4895'
200' NORTH 4877'
13 MARCH, 1986

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

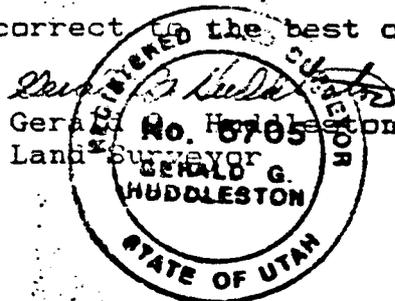
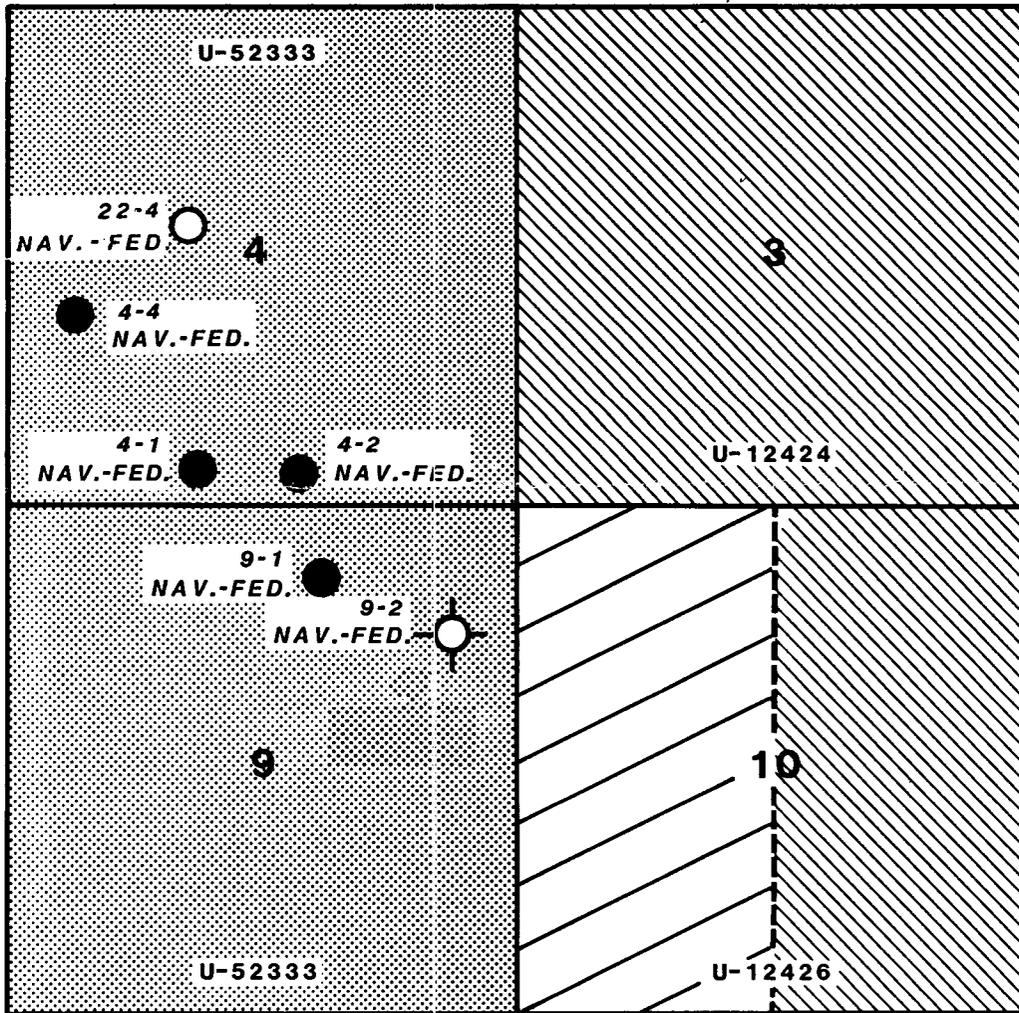


EXHIBIT A

T
39
S



R 25 E

KEY: LEASEHOLD OWNERSHIP



MERIDIAN OIL INC. - 75%, BWAB 25%
(FEDERAL SERIAL NO. U-52333)



TEXACO INC. (50%), DONALD B. ANDERSON, LTD. (25%),
CHORNEY OIL COMPANY (25%)
(FEDERAL SERIAL NO. U-12424)
(FEDERAL SERIAL NO. U-12426)



TEXACO INC., DONALD B. ANDERSON, LTD., & CHORNEY OIL
COMPANY, SUBJECT TO FARMOUT OPTION AGREEMENT IN FAVOR
OF MERIDIAN OIL INC.
(FEDERAL SERIAL NO U-12426)



PROPOSED LOCATION - MOI #22-24 FED. NAV.
2300' FNL - 1900' FWL



EXISTING WELL - MOI. #4-1 NAV. FED.
370' FSL - 1940' FWL



EXISTING WELL - MOI. #4-2 NAV. FED.
300' FSL - 2225' FEL



EXISTING WELL - MOI. #4-4 NAV. FED.
1980' FSL - 660' FWL
(FEDERAL SERIAL NO. U-52333)

MERIDIAN OIL

KIVA FIELD
T 39 S, R 25 E
SAN JUAN COUNTY, UTAH

SCALE: 1" = 2000'

1181N/0073N/III

OIL AND GAS ORDER NO. 1

MERIDIAN OIL INC.

LEASE NAME: 22-4 Navajo-Federal
LEASE NO. U-52333
LOCATION: SENW Section 4-39S-25E
2300' FNL - 1900' FWL
San Juan County, Utah
Kiva Field

A. EIGHT POINT DRILLING PROGRAM

1.& 2. Estimated Tops:

Morrison	Surface	
Entrada	675	
Navajo	860	fresh water
Chinle	1557	
Shinarump	2412	
Cutler	2637	
Hermosa	4517	
Upper Ismay	5507	oil
A Shale	5639	
Lower Ismay	5660	
Desert Creek	5745	oil
Chimney Rock	5831	
Akah	5854	
TD	5865	

3. Pressure Control Equipment:

- a. A 3000 psi WP and 6000 psi test double gate preventer equipped with blind and pipe rams.
- b. BOP systems will be consistent with API RP 53. 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. The San Juan Resource Area will be notified 1 day before running casing strings and cement.

Hole Size	Size	Depth	Casing				Cementing Program
			Weight	Grade	Thrd	Cond	
17-1/2	13-3/8	80	48#	H-40	ST&C	New	Redi-Mix to surface.
11	8-5/8	2,000	24#	K-55	ST&C	New	Two stage, DV tool @ 1500' Cement to sfc w/1500 sx "B" Lite (35/65/6) +2% CaCl ₂ & 250 sx "B" +2% CaCl ₂ .
11	8-5/8	3,300	32#	K-55	ST&C	New	
7-7/8	5-1/2	5,865	15.5#	K-55	LT&C	New	Single stage, top of cmt @ 2800'. Caliper log + 40% excess. "B" Lite (35/65/6) + 1/4#/sx Flocele & Class "B" + fluid loss additive.

5. Proposed drilling mud program:

A water base mud system from surface to TD. Maximum anticipated mud weight is 10#/gallon.

A mud logging unit will be on location from 3300' to TD.

6. Testing program:

Lower Desert Creek - Possible
Upper Ismay - Probable

Logging program:

Cal/GR/DLL/MSFL Base surface casing to TD (GR to surface)
Cal/GR/Sonic Base surface casing to TD (GR to surface displays)
Cal/GR/CNL/Lithoden 5200' to TD
Dipmeter: If Desert Creek indicates productive.

Coring program:

One 60' core in the Upper Ismay is planned.

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. If requested, samples (cuttings, fluids, and/or gases) will be submitted to the District Manager.

7. Anticipated abnormal BHP or BHT:

No abnormal BHP or BHT are expected in this well.

Potentially hazardous conditions anticipated:

No H₂S has been found, reported or is known to exist at these depths in this area.

8. Anticipated Starting Dates and Notifications of Operations

The operator will contact the San Juan Resource Area at 801-587-2201, 48 hours before beginning any dirt work.

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 Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry 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 begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM 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 Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then 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.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. 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 San Juan Area Manager, or the appropriate surface manager.

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 following information will be permanently beaded-on with a welding torch: Fed, well number, location by 1/4 1/4 section, township and range, Lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: A separate rig will be used for completion operations.

The following may be inspected and/or witnessed:

1. The cementing and testing of surface casing.
2. (Dry Hole) Setting and testing of surface casing shoe plug.
3. (Depleted Producer) The setting and testing of plugs across the producing horizon and if applicable, the surface casing shoe plug and/or annulus (casing to formation) squeeze jobs.

Notify the San Juan Resource Area (Mike Wade) one day or on dry hole as soon as possible prior to the above at (801) 587-2201 (Home) (801) 587-2026 or if unable to reach Mike, call Moab District office Greg Noble at (801) 259-6111 (Home) (801) 259-8811.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point: 6 miles east 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.
- d. An encroachment permit will be obtained from the San Juan County Road Dept., (801) 587-2231, ext. 43.

2. Planned Access Roads (Blue)

- a. The maximum total width will be flat bladed 25 feet.
- b. Maximum grade is 2%.
- c. There will be no turnouts.
- d. Road is centerline flagged.
- e. Road will be drained as needed.
- f. If well is drilled during wet winter conditions, surface materials may be required to avoid maintenance problems.

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 crossing; and culverts will be determined at the appropriate field inspection.

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

Battery facility is shown on attached Exhibit "4".

All permanent (on site for 5 months or longer) above ground facilities (including 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 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be Desert Brown.

All flowlines will be buried parallel to existing roads unless authorized otherwise by BLM.

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 un 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.

5. Location and Type of Water Supply

All water needed for drilling purposes will be obtained from Benally water well, located NWNE Section 5-39S-25E.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the landowner or surface management agency to use the land containing the water source.

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 be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

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.

A trash pit will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State fire Warden, John Baker, at (801) 587-2705.

Produced waste water will be confined to a lined pit for a period not to exceed 90 days after initial production. During the 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 top 10 inches of soil material will be removed from the location and stockpiled on the southwest side of well pad. Topsoil along the access will be reserved in place.

Access to the well pad will be from the southwest corner.

10. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator/holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.

- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

<u>3</u>	lbs/acre Indian ricegrass (<u>Oryzopsis hymenoides</u>)
<u>3</u>	lbs/acre Galleta (<u>Hilaria jamesii</u>)
<u>3</u>	lbs/acre crested wheatgrass (<u>Agropyron desertorum</u>)
<u>2</u>	lbs/acre Fourwing saltbush (<u>Atriplex canenscens</u>)

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface Ownership: Federal
Mineral Ownership: Federal

12. 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 excavation 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.

Your contact with the District Office is: Greg Noble
Office Phone: 801-259-6111 Address: P. O. Box 970, Moab, UT 84532

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

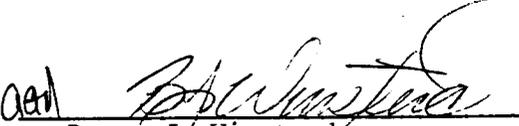
13. Lessee or Operator's Field Representative and Certification

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

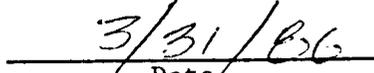
1.	Johnny L. Wright, Drilling Supt.	406-256-4175	406-252-2889
2.	Rick Muncrief, Area Drilling Engineer	406-256-4155	406-245-9896
3.	Barry Winstead, Sr. Drilling Engineer	406-256-4030	406-656-7521
4.	John Pulley, Drilling Manager	406-256-4124	406-259-6156

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.

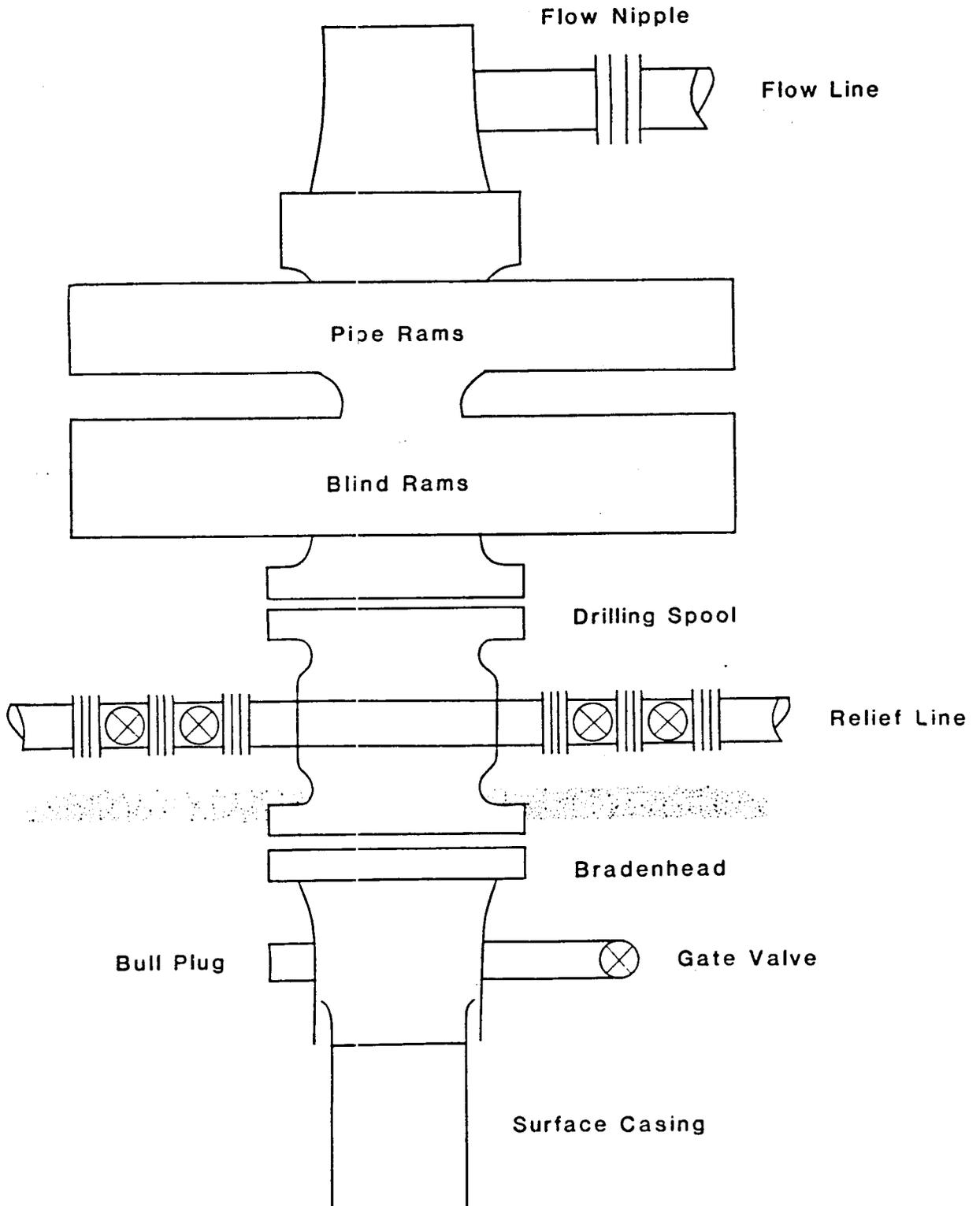
ced 

Barry J. Winstead
Sr. Drilling Engineer



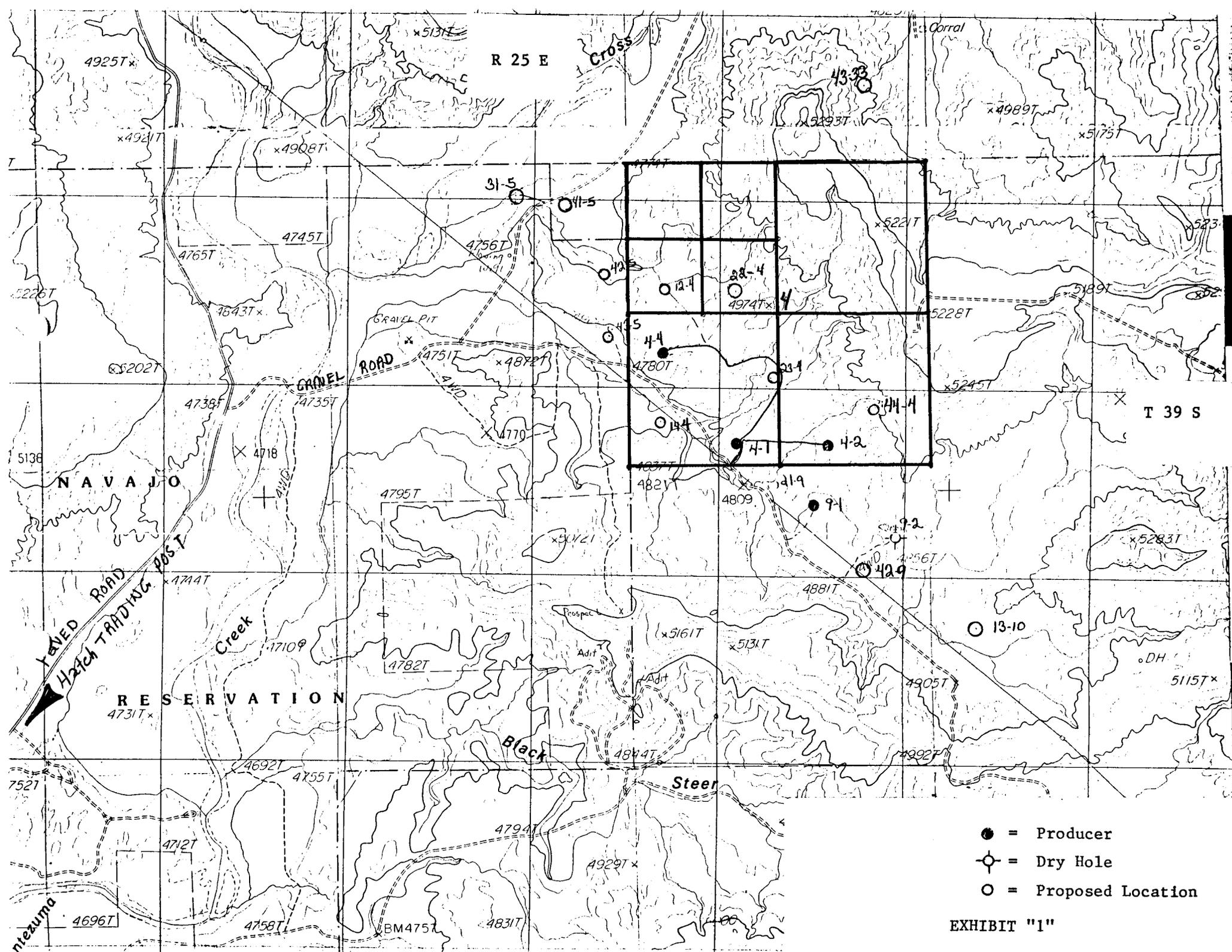
Date

TYPICAL B.O.P. INSTALLATION



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

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



- = Producer
- with a dot = Dry Hole
- = Proposed Location

EXHIBIT "1"

WELL PAD PLAN VIEW

22-4 NAVAJO-FEDERAL



1" = 60'
5' contours

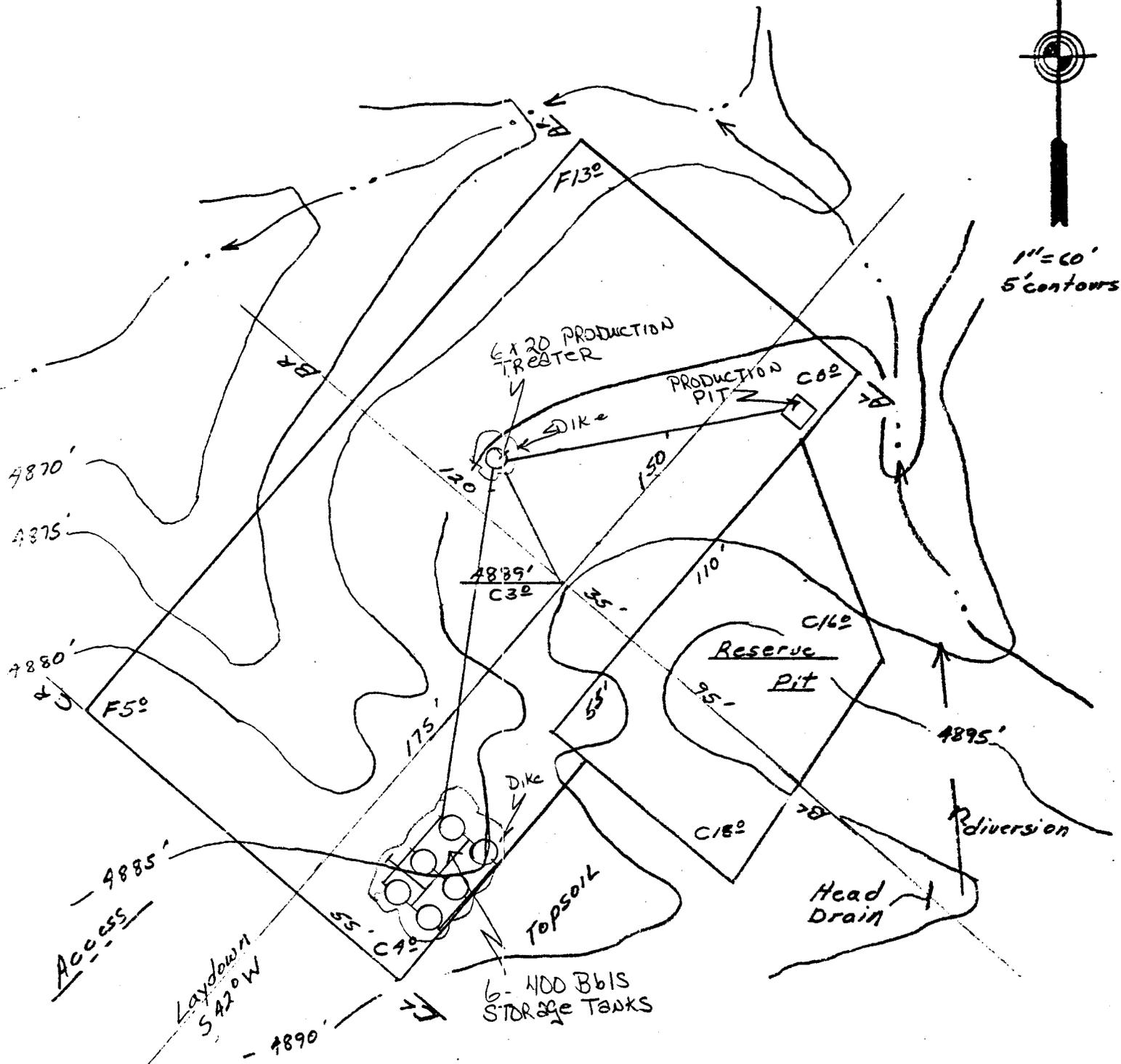


EXHIBIT "4"
Battery Layout

WELL PAD PLAN VIEW

22-4 NAVAJO-FEDERAL



1" = 60'
5' contours

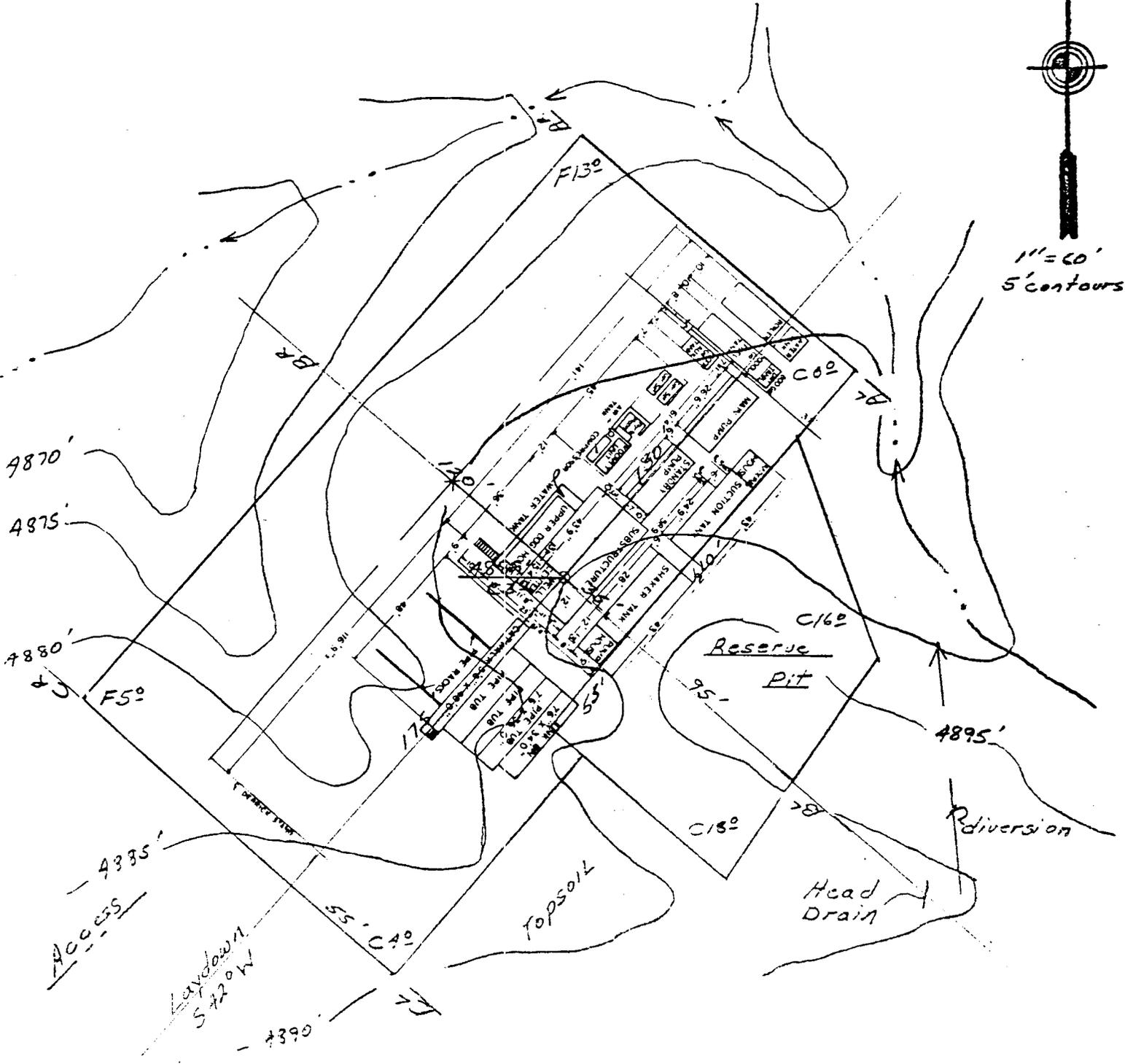


EXHIBIT "9a"
Rig Layout

WELL PAD CROSS-SECTION

22-4 NAVAJO-FEDERAL

Cut 
Fill 

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

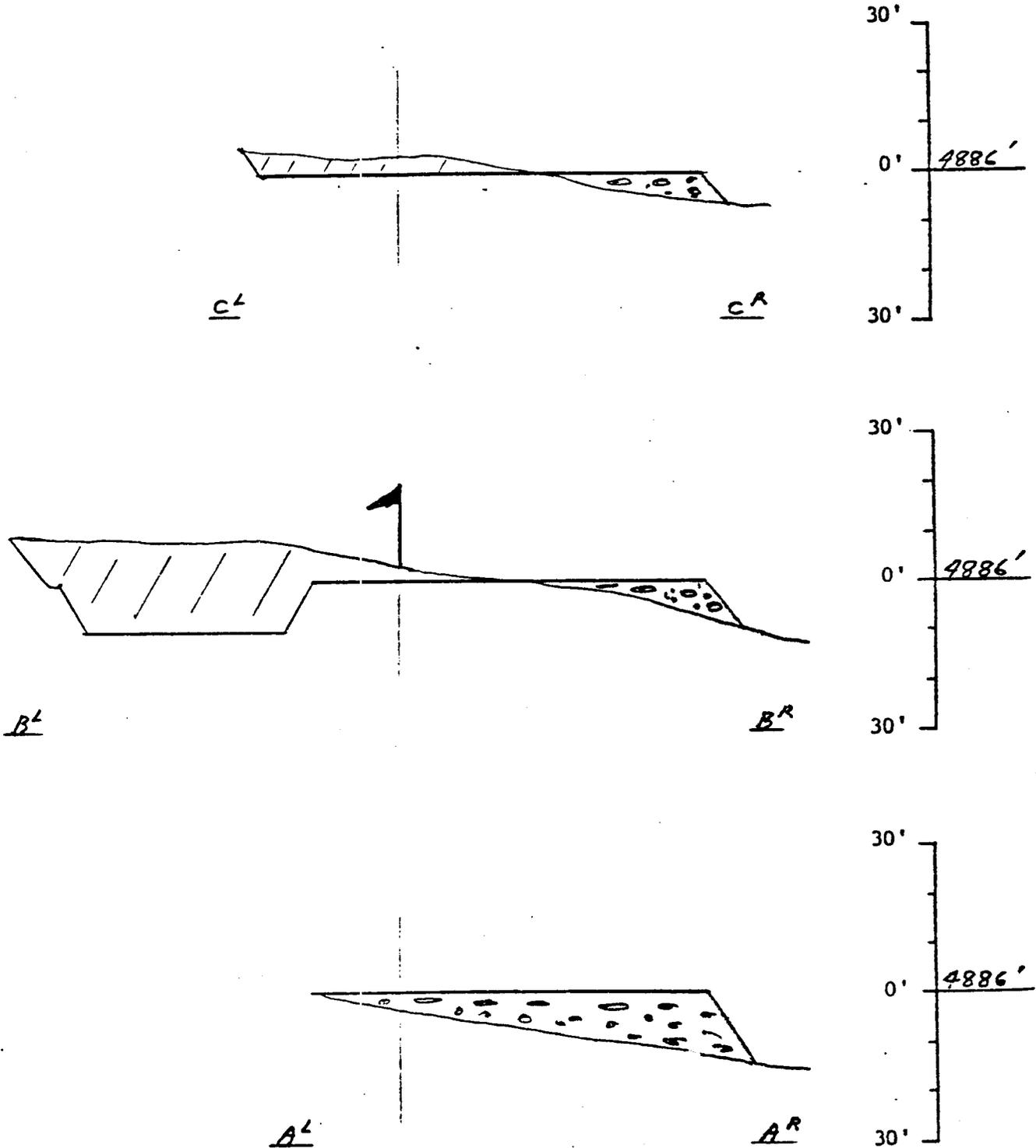


EXHIBIT "9b"
Cross Sections

CONFIDENTIAL

OPERATOR Meridian Oil Inc DATE 4-11-86

WELL NAME Norapad Sub. 22-4

SEC 5ENW4 T 39S R 25E COUNTY San Juan

43-037-31260
API NUMBER

Sub.
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Need water permit
Exception requested

APPROVAL LETTER:

SPACING: 203 _____ UNIT _____

302

_____ CAUSE NO. & DATE _____

302.1

STIPULATIONS:

1- Water

MERIDIAN OIL

April 14, 1986

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

RECEIVED
APR 16 1986

DIVISION OF
OIL, GAS & MINING

Attention: Arlene Sollis

Re: Request for Exception Location
22-4 Navajo-Federal
SENW Section 4-39S-25E
San Juan County, Utah

Gentlemen:

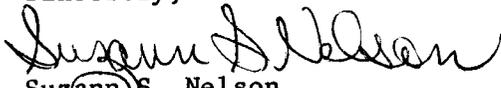
Meridian Oil Inc. requests the approval to drill an unorthodox location in Section 4-39S-25E of San Juan County, Utah. The above referenced location was staked 2300' FNL - 1900' FWL of Section 4.

A lease ownership plat is attached as Exhibit "A". Meridian Oil Inc. owns 75% of the oil and gas leasehold working interest (Lease U-52333) within a 660' radius of the proposed exception location. BWAB Inc. owns the remaining 25% interest in Lease U-52333 and is participating in the drilling of this well. BWAB Inc. has been notified and is in agreement with this location. No other offset owners are required to be notified since the offset acreage is owned by Meridian and BWAB Inc.

This exception location for the 22-4 Navajo-Federal is requested due to topographical reasons as per attached Exhibit "B".

Thank you for your consideration.

Sincerely,



Suzann S. Nelson
Sr. Operations Technician

Attachments

ssn

cc: BWAB Inc. - Denver, CO
Cindy Crawley, Bill Mitchell - Meridian Oil, Denver District

1175N

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-52333	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --	
SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. UNIT AGREEMENT NAME --	
2. NAME OF OPERATOR MERIDIAN OIL INC.		8. FARM OR LEASE NAME Navajo-Federal	
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		9. WELL NO. 22-4	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface: SENW (2300' FNL - 1900' FWL) At proposed prod. zone: Same		10. FIELD AND POOL, OR WILDCAT Kiva	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles east Hatch Trading Post		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 4-39S-25E	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 361'	16. NO. OF ACRES IN LEASE 2920.8	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. 1200'	19. PROPOSED DEPTH 5865'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4886' GL (graded)		22. APPROX. DATE WORK WILL START* July 15, 1986	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
--------------	----------------	-----------------	---------------	--------------------

Oil and Gas Order #1
Attachments:
Survey Plat
Eight Point Drilling Program
Thirteen Point Surface Use Plan



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Sr. Drilling Engineer DATE 3/31/86
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE APR 16 1986
CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF
GAS IS SUBJECT OF NTL 4-A
DATED 1/1/80

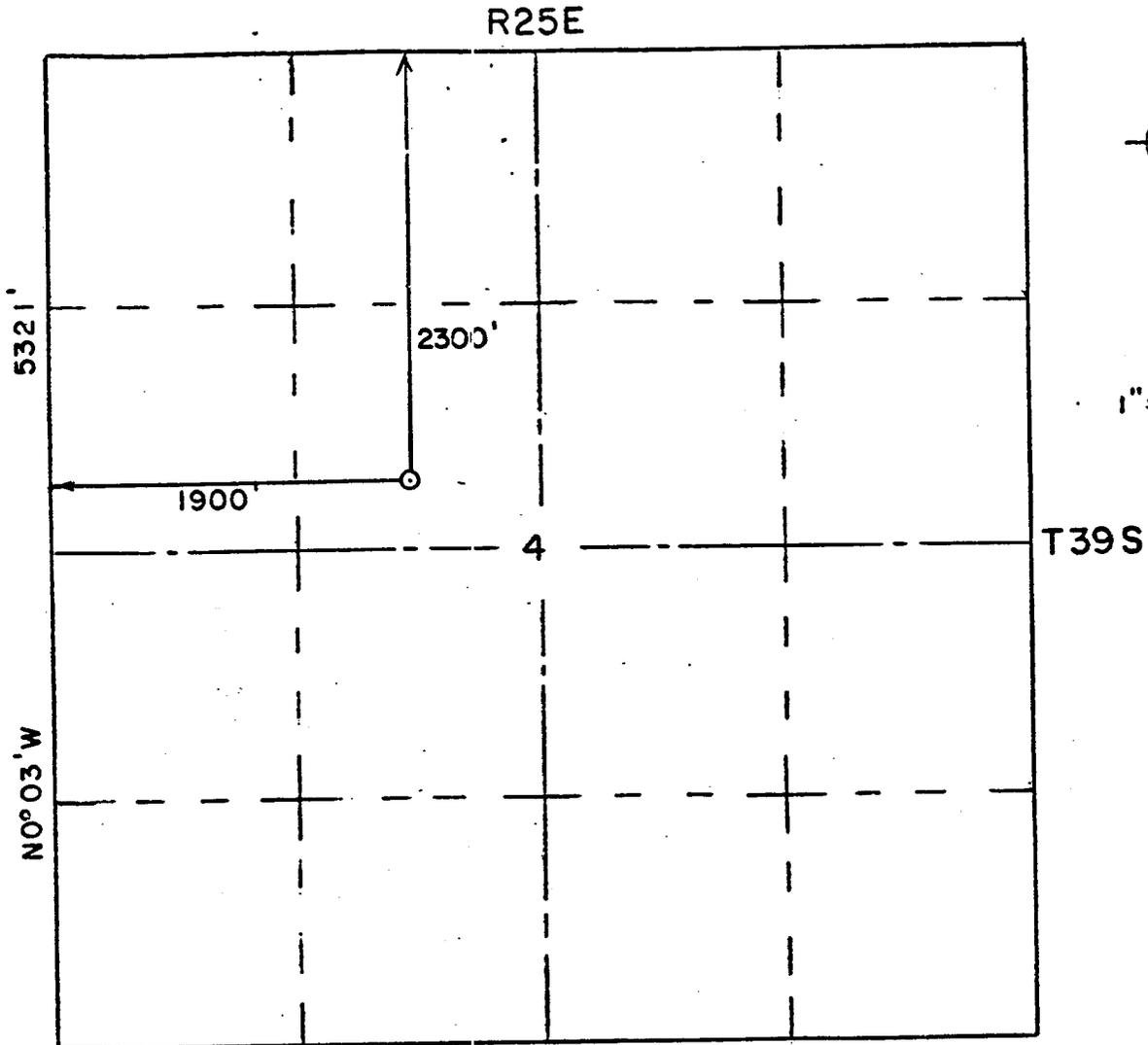
NOTICE OF APPROVAL

*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.

Handwritten notes at the bottom left corner.

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

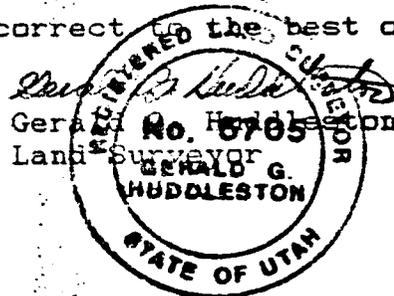
MERIDIAN OIL
22-4 NAVAJO-FEDERAL
2300' FN & 1900' FW
SECTION 4, T39S, R25E, SLM
SAN JUAN COUNTY, UTAH
GROUND ELEVATION 4889'

REFERENCES:

200' SOUTH 4895'
200' NORTH 4877'

13 MARCH, 1986

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





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

April 21, 1986

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

Gentlemen:

Re: Well Name: Navajo Federal 22-4 - SE NW Sec. 4, T. 39S, R. 25E
2300' FNL, 1900' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302.1, Oil and Gas Conservation General Rules, 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 as required by Chapter 3, Title 73, Utah Code Annotated.

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 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2

Meridan Oil Incorporated

Well Name: Navajo Federal 22-4

April 21, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at each 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) 533-6163.
6. 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 43-037-31260.

Sincerely,



R. J. Firth

Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

D. R. Nielson

8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(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 purposes.)

RECEIVED
MAY 19 1986

5. LEASE DESIGNATION AND SERIAL NO.
U-52333

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
--

7. UNIT AGREEMENT NAME
--

8. FARM OR LEASE NAME
Navajo-Federal

9. WELL NO.
22-4

10. FIELD AND POOL, OR WILDCAT
Kiva

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 4-39S-25E

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

1. 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. See also space 17 below.)
At surface
SENW (2300' FNL - 1900' FWL)

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.
43-037-31260

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4886' GL (graded)

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 checked="" type="checkbox"/>	(Other) _____	(Other) _____

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

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

Meridian Oil Inc. has permitted the #22-4 Navajo-Federal well to drill an 11" surface hole to a depth of 3300'. If the salt water flow (est @ 3062') in the DeChelly formation has not been encountered by 3300', Meridian proposes to set the 8-5/8" surface casing off bottom at +1600' and cement by the single-stage method circulating cement to surface. A basket cementing shoe assembly (diagram attached) will be utilized for cementing in this situation on the bottom of the 8-5/8" casing. The proposed method would be used only in the absence of the salt water flow and would protect surface fresh water sands at the alternate setting depth of +1600'. If 8-5/8" surface casing is set off bottom, the 5-1/2" production casing will be set at TD and cemented by the two-stage method with a stage collar placed at +3500'. The proposed second stage TOC would be +1200'. In the event the salt water flow is encountered, surface and production casing will be set and cemented as originally permitted.

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

SIGNED A. Arnold Hall TITLE Petroleum Engineer DATE 5/15/86

(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

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

DATE 5-23-86
BY John R. Bays



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

July 16, 1987

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

Gentlemen:

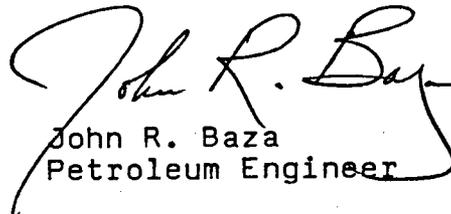
RE: Well No. Navajo-Federal 22-4, Sec. 4, T.39S, R.25E,
San Juan County, Utah, API NO. 43-037-31260.

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded, effective one calendar month from the date of this notice.

If it is your intent to proceed with operations on the well, you must submit a request for extension of the approval to drill within the one month grace period. After the grace period, a new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,


John R. Baza
Petroleum Engineer

sb
cc: BLM-Moab
D. R. Nielson
R. J. Firth
Well file ✓
0327T-86

AMBRA OIL AND GAS COMPANY

Well No. TXO 14-4
Lease U-44440
Sec. 14, T. 20 S., R. 23 E.
Grand County, Utah
API #43-019-31219

Location was built but no well was drilled. Checking with resource area for final release of location.

HOWELL OIL COMPANY

Well No. Gebauer-Groom 30
Lease U-7303
Sec. 7, T. 42 S., R. 19 E.
San Juan County, Utah
API #43-037-31234

In the process of rescinding Application for Permit to Drill.

Well No. Hicks 2
Lease U-7303-D
Sec. 5, T. 42 S., R. 19 E.
San Juan County, Utah
API # 43-037-31250

The well was spudded March 9, 1987. Inspection and Enforcement will be requesting Well Completion Information on this well.

Well No. Mexican Hat Federal 5
Lease U-22899
Sec. 32, T. 41 S., R. 19 E.
San Juan County, Utah
API #43-037-31180

In the process of rescinding Application for Permit to Drill.

MERIDIAN OIL INC.

Well No. Navajo 31-5
Lease U-57895
Sec. 5, T. 39 S., R. 25 E.
San Juan County, Utah
API #43-037-31257

We are holding this application for approval contingent upon submission of surface use stipulations from the Navajo Indian Tribe at Window Rock, AZ.

Well No. Navajo Federal 22-4
Lease U-52333
Sec. 4, T. 39 S., R. 25 E.
San Juan County, Utah
API #43-037-31260

Location was built but well was never drilled. Release of location due 2/28/89.

RECEIVED
JUN 22 1987

DIVISION OF
OIL, GAS & MINING
070806