

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED **12-5-86**

LAND FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO **U-56186** INDIAN

DRILLING APPROVED **4-2-87**

SPUDDED IN

COMPLETED: PUT TO PRODUCING

INITIAL PRODUCTION:

GRAVITY API

GOR

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: **PA 4-22-88**

FIELD **WILDCAT**

UNIT:

COUNTY: **SAN JUAN**

WELL NO **HAVASU FEDERAL 11-19** API #**43-037-31314**

LOCATION **850' FNL** FT. FROM (N) (S) LINE, **700' FWL** FT. FROM (E) (W) LINE. **NW NW (IRREG. SEC.) - 1/4 SEC. 19**

TWP	RGE	SEC.	OPERATOR	TWP	RGE	SEC	OPERATOR
38S	24E	19	MERIDIAN OIL INC.				

MERIDIAN OIL

RECEIVED  
DEC 05 1986

DIVISION OF  
OIL, GAS & MINING

December 3, 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  
11-19 Havasu-Federal  
NWNW Section 19-38S-24E  
San Juan County, Utah  
Federal Lease No. U-56186

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

**CONFIDENTIAL**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 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      NWNW (940' FNL - 800' FWL)  
 At proposed prod. zone      NWNW (1250' FNL - 490' FWL)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 5 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)      800'

16. NO. OF ACRES IN LEASE      3427.68

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.      1500'

19. PROPOSED DEPTH      6100'

20. ROTARY OR CABLE TOOLS      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      5093' GL (graded)

22. APPROX. DATE WORK WILL START\*      1st Quarter, 1987

5. LEASE DESIGNATION AND SERIAL NO.  
 U-56186

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

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Havasu-Federal

9. WELL NO.  
 11-19

10. FIELD AND POOL, OR WILDCAT  
 Havasu Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
 Section 19-38S-24E

12. COUNTY OR PARISH      13. STATE  
 San Juan      Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	80'	Redi-Mix to surface
11	8-5/8	24#	1,900'	Single stage. Cmt to sfc w/360 sx "B"+3% salt+16% gel +.2% rtrdr & 110 sx "B"+2% CaCl <sub>2</sub>
7-7/8	5-1/2	15.5#	6,100'	Single stage. TOC @ 1500'. Caliper log + 20% excess. "B" +16% gel + 3% salt + .4% rtrdr & "B" + 3% Kcl + .8% fluid loss.

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 12/1/86

(This space for Federal or State office use)

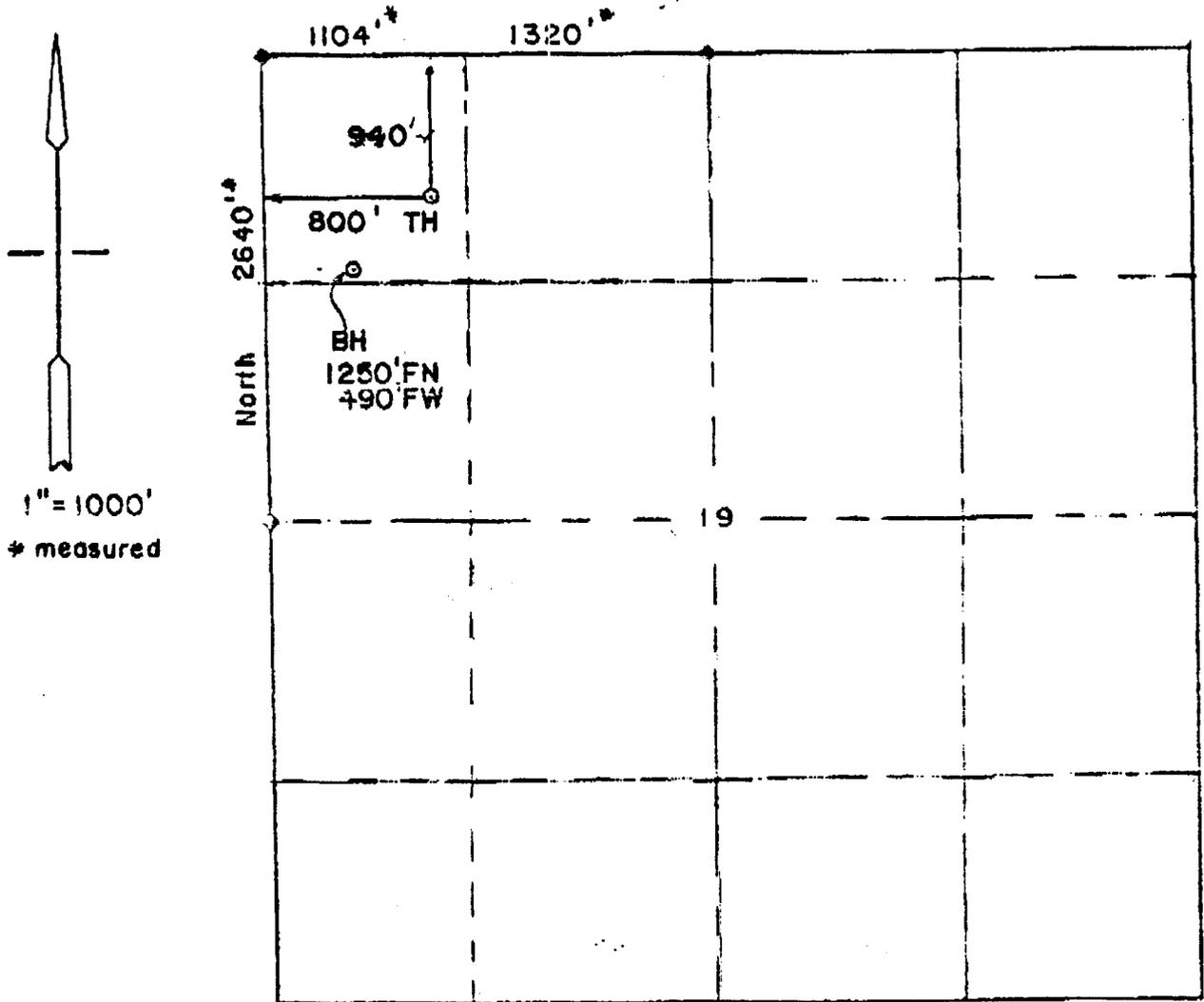
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

Well Location Plat



**WELL LOCATION DESCRIPTION:**

MERIDIAN OIL  
 11-19 FEDERAL HAVASU  
 940' FN & 800' FW  
 SECTION 19, T38S, R24E, SLM  
 SAN JUAN COUNTY, UTAH  
 GROUND ELEVATION 5094'

**REFERENCES:**

1150' FN & 1240' FW  
 S118' GRD

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



*Gerald G. Huddleston*  
 GERALD G. HUDDLESTON  
 Land Surveyor

1344N

OIL AND GAS ORDER NO. 1

MERIDIAN OIL INC.

LEASE NAME: 11-19 Havasu-Federal  
LEASE NO. U-56186  
LOCATION: NWNW Section 19-38S-24E  
Surface - 940' FNL - 800' FWL  
Bottom Hole - 1250' FNL - 490' FWL  
San Juan County, Utah  
Havasu Prospect

A. EIGHT POINT DRILLING PROGRAM

1. & 2. Estimated Tops:

Morrison	Surface	
Entrada	746	
Navajo	934	fresh water
Chinle	1876	
Shinarump	2866	
Cutler	2986	
Hermosa	4738	
Upper Ismay	5678	oil
Top Porosity	5704	
A Shale	5811	
Lower Ismay	5839	
Desert Creek	5929	oil
Chimney Rock	6011	
Akah	6034	
TD	6100	

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 2000 psi against casing. Casing will be tested to 2000 psi prior to drilling float shoe. 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	1,900	24#	K-55	ST&C	New	Single stage. Cement to sfc w/360 sx "B" + 3% salt + 16% gel + .2% retarder & 110 sx "B" + 2% CaCl <sub>2</sub> .
7-7/8	5-1/2	6,100	15.5#	K-55	LT&C	New	Single stage. TOC @ 1500'. Caliper log + 20% excess. "B" + 16% gel + 3% salt + .4% retarder & "B" + 3% Kcl + .8% fluid loss.

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 3300' to TD.

6. Testing program:

Upper Ismay - Probable  
 Desert Creek - Possible

Logging program:

GR/DLL/MSFL Base surface casing to TD (GR to surface)  
 GR/CNL/FDC Base surface casing to TD  
 GR/Sonic Base surface casing to TD (GR to surface display)  
 Directional Survey Base surface casing to TD  
 Dipmeter: If Desert Creek indicates productive.

Coring program:

None 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 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

The operator will contact the San Juan Resource Area at 801-587-2141, 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) 587-2141 (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:  
5 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.
- d. An encroachment permit will be obtained from the San Juan County Road Department.

2. Planned Access Roads (Blue)

- a. The maximum total width will be 25 feet.
- b. Maximum grade is 0%.
- c. Turnouts will be constructed as needed.
- d. Road is centerline flagged.
- e. Road will be drained as needed.
- f. If access is utilized during wet winter weather, road surfacing may be required to prevent road 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 6 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 run or any production facilities. Meter runs will be housed and/or fenced.

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

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.

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 not 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 San Juan County Sheriff (801) 587-2237.

Produced waste water will be confined to a (unlined) 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 reserve pit will be located on the north side of the well pad.

The top 6 inches of soil material will be removed from the location and stockpiled on the northeast side of well pad. Topsoil along the access will be reserved in place.

Access to the well pad will be from the east.

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) 587-2141, 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 Galleta ( <u>Hilaria jamesii</u> )
<u>3</u>	lbs/acre crested wheatgrass ( <u>Agropyron desertorum</u> )
<u>3</u>	lbs/acre Fourwing saltbush ( <u>Atriplex canescens</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

Archeological site on south side of location will be fenced prior to construction.

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: 801-587-2141

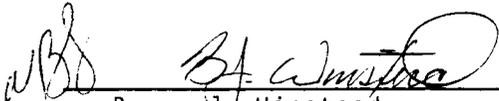
13. Lessee or Operator's Field Representative and Certification

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

1.	Johnny L. Wright, Drilling Supt.	406-256-4175	406-252-2889
2.	Bill Lloyd, Drilling Engineer	406-256-4129	406-252-2328
3.	John Pulley, Completion Supt	406-256-4124	406-259-6156
4.	Barry Winstead, Sr. Drilling Engineer	406-256-4030	406-656-7521

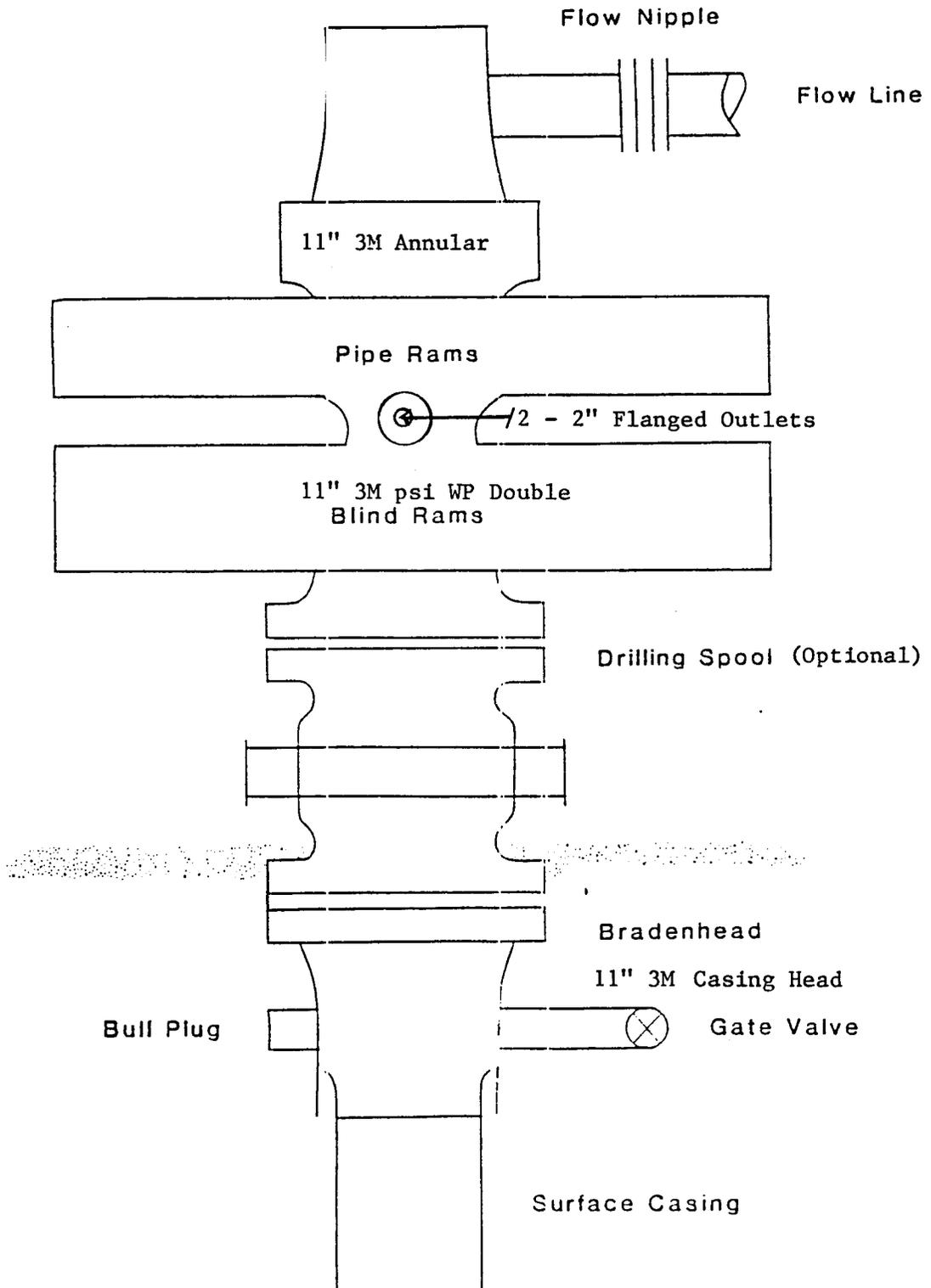
CERTIFICATION:

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.

  
\_\_\_\_\_  
Barry J. Winstead  
Sr. Drilling Engineer

12/1/86  
\_\_\_\_\_  
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.

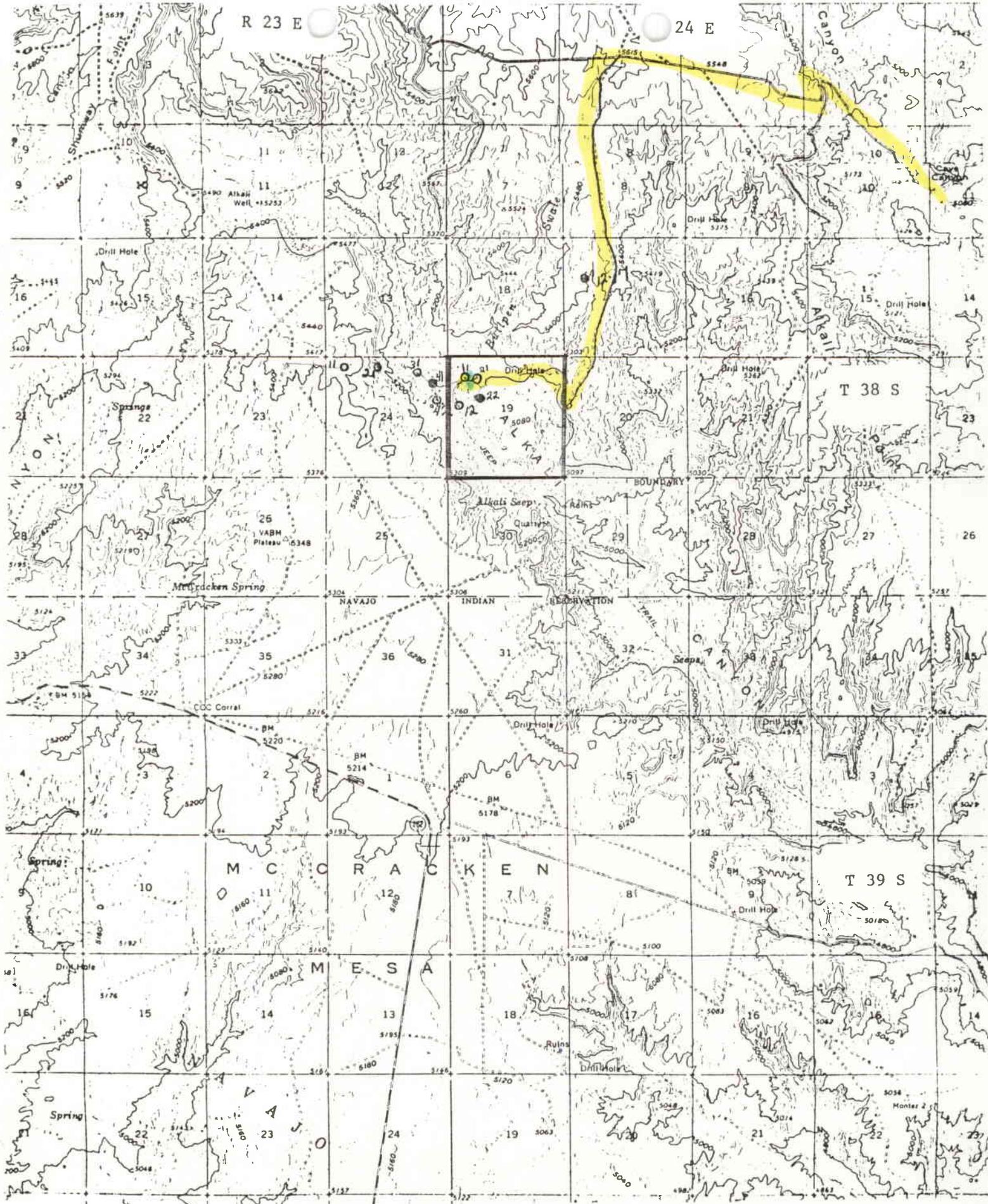


EXHIBIT "1"  
 11-19 Havasu-Federal

WELL PAD PLAN VIEW

11-19

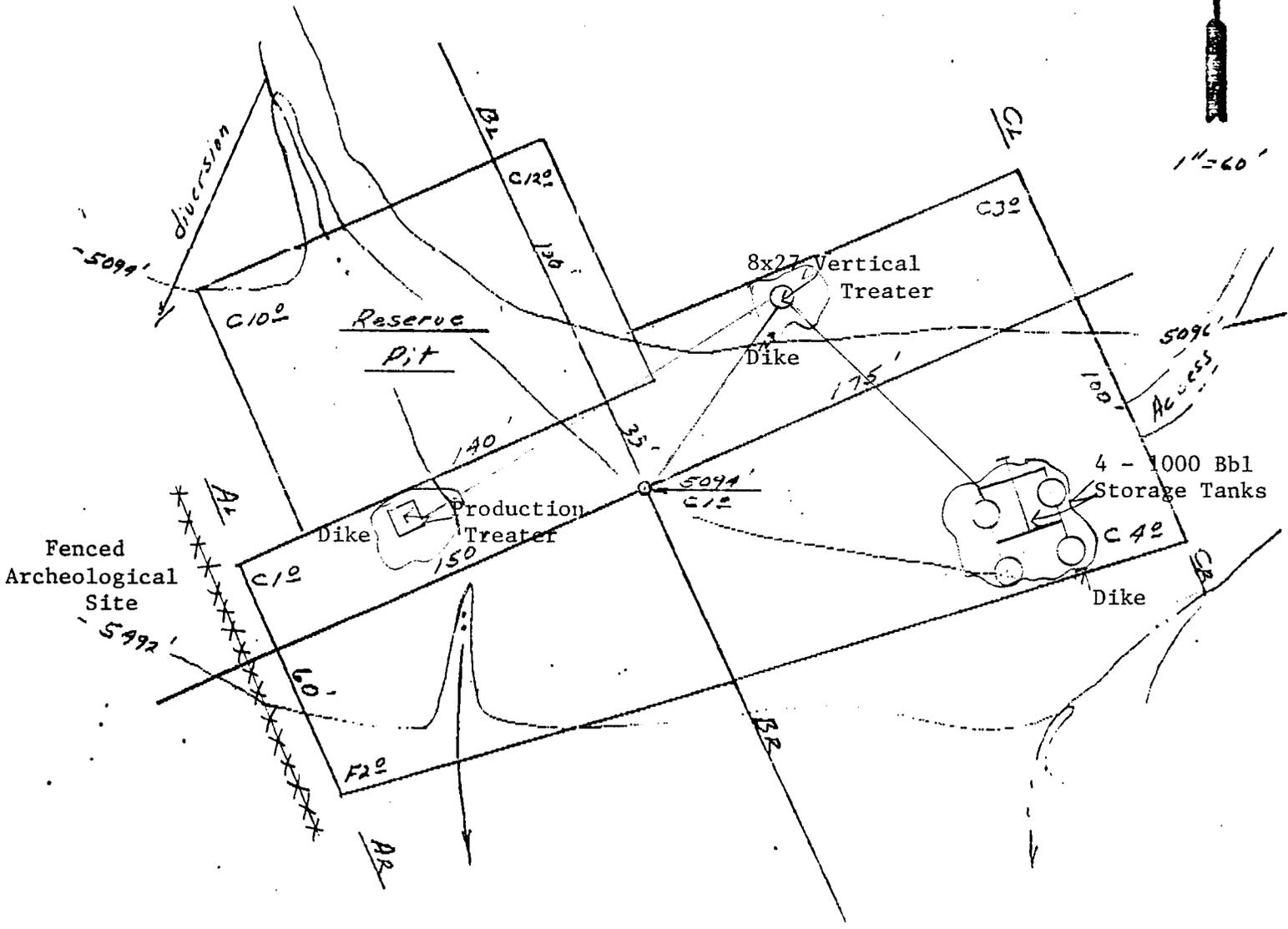


EXHIBIT "4"  
Battery Layout



### WELL PAD CROSS-SECTION

11-19

Cut   
Fill 

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

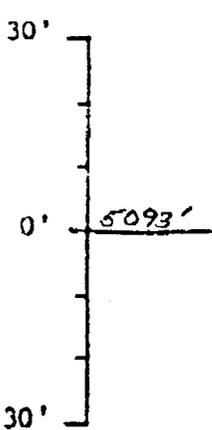
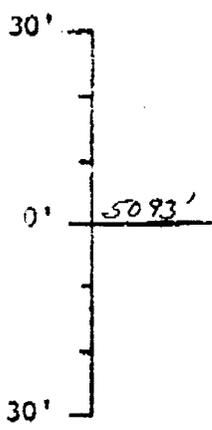
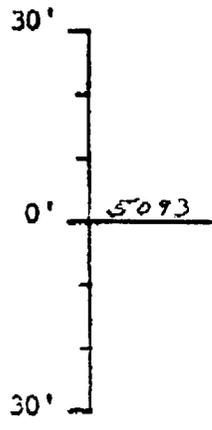
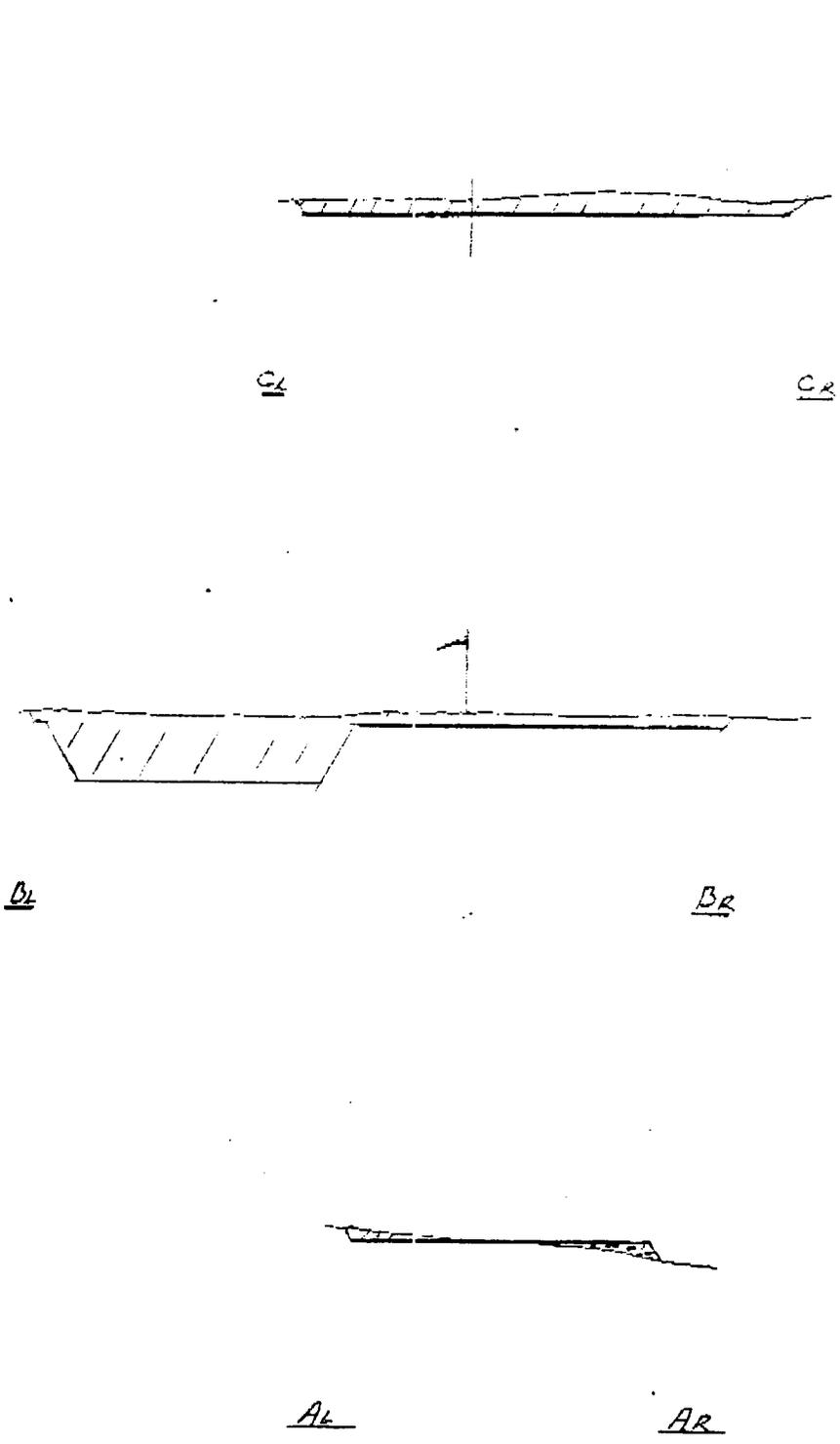


EXHIBIT "9b"  
Cross Sections

~~CONFIDENTIAL~~

040302

OPERATOR Meridian Oil Inc. DATE 12-9-86

WELL NAME Havran Fid. 11-69

SEC: NW NW 19 T. 38S R. 24E COUNTY Saa Juan  
(Greg. Section)

43-037-31314  
API NUMBER

Fid.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'  
Need water permit  
Make exception for.

APPROVAL LETTER:

SPACING:  203 \_\_\_\_\_ UNIT

302

\_\_\_\_\_ CAUSE NO. & DATE

302.1

STIPULATIONS:

1- Water

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

b. TYPE OF WELL  
 OIL WELL                       GAS WELL                       OTHER                       SINGLE ZONE                       MULTIPLE ZONE

2. NAME OF OPERATOR  
 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.)\*  
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 At proposed prod. zone  
    NWNW (1250' FNL - 490' FWL)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 5 miles northwest of Hatch Trading Post

10. DISTANCE FROM PROPOSED\*  
 LOCATION TO NEAREST  
 PROPERTY OR LEASE LINE, FT.  
 (Also to nearest drlg. unit line, if any)                      800'

16. NO. OF ACRES IN LEASE  
 3427.68

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.                      1500'

19. PROPOSED DEPTH  
 6100'

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 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5093' GL (graded)

22. APPROX. DATE WORK WILL START\*  
 1st Quarter, 1987

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#	1,900'	Single stage. Cmt to sfc w/360 sx "B"+3% salt+16% gel

RECEIVED  
FEB 06 1987

DIVISION OF  
OIL, GAS & MINING

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

24. SIGNED [Signature] TITLE Sr. Drilling Engineer DATE 12/1/86

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

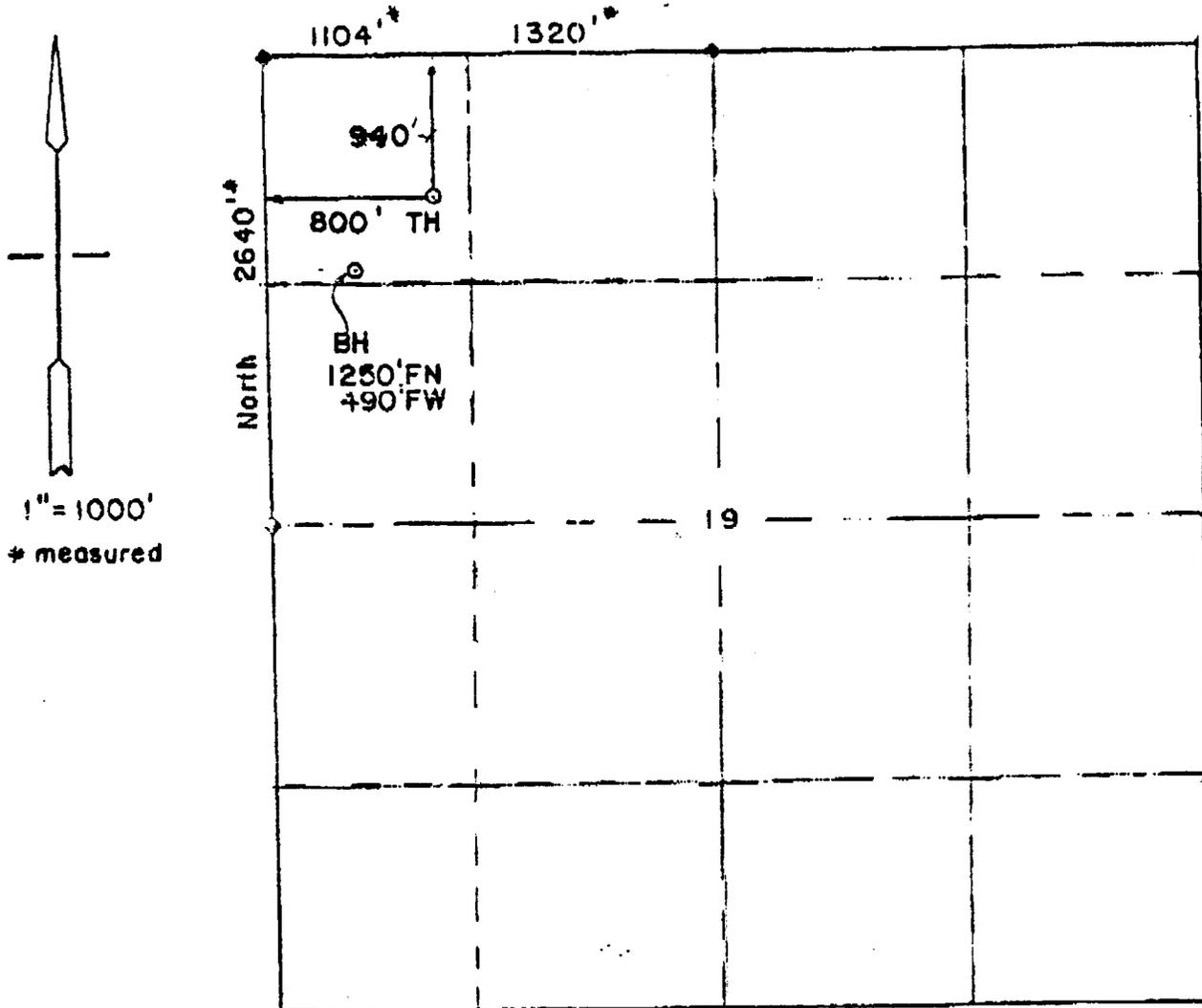
APPROVED BY Kenneth V. Egan TITLE Acting DISTRICT MANAGER DATE FEB 05 1987

CONDITIONS OF APPROVAL, IF ANY:

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

\*See Instructions On Reverse Side

Well Location Plat

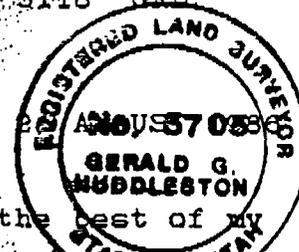


WELL LOCATION DESCRIPTION:

MERIDIAN OIL  
 11-19 FEDERAL HAVASU  
 940' FN & 800' FW  
 SECTION 19, T38S, R24E, SLM  
 SAN JUAN COUNTY, UTAH  
 GROUND ELEVATION 5094'

REFERENCES:

1150' FN & 1240' FW  
 5118' GED



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

*Gerald G. Huddleston*  
 GERALD G. HUDDLESTON  
 Land Surveyor

Meridian Oil, Inc.  
Well No. Havasu-Federal 11-19  
Sec. 19, T. 38 S., R. 24 E.  
San Juan County, Utah  
Lease U-56186

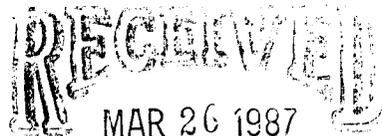
CONDITIONS OF APPROVAL

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 as designated operator on this application. If any assignments or designations change, liability will remain with Meridian Oil Inc., until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

# MERIDIAN OIL

March 24, 1987



DIVISION OF  
OIL, GAS & MINING

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

Attention: Arlene Sollis

Re: Application for Permit to Drill  
11-19 Havasu-Federal  
NWNW Section 19-38S-24E  
Federal Lease No. U-56186  
San Juan County, Utah

Gentlemen:

Enclosed are four copies each of "revised" Survey Plat, Thirteen Point Plan and Exhibits "1", "9a" and "9b" for replacement in Oil & Gas Order #1 on file in your office, for the above referenced location. This location was moved from 940' FNL - 800' FWL to 850' FNL - 700' FWL.

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

Sincerely,

A handwritten signature in cursive script that reads "Suzanne S. Nelson". The signature is written in dark ink and is positioned above the typed name.

S. S. Nelson  
Sr. Operations Technician

/ssn/1423N

Encl

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRI-FOLD STATE\*  
(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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME N/A
2. NAME OF OPERATOR MERIDIAN OIL INC.		8. FARM OR LEASE NAME Havasu-Federal
3. ADDRESS OF OPERATOR P. O. Box 1855, Billings, MT 59103		9. WELL NO. 11-19
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NWNW (850' FNL - 700' FWL)		10. FIELD AND POOL, OR WILDCAT Havasu (Wildcat)
14. PERMIT NO. 43-037-31314		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA Section 19-38S-24E
15. ELEVATIONS (Show whether DP, RT, GR, etc.) 5095' GL (graded)		12. COUNTY OR PARISH 13. STATE San Juan Utah

RECEIVED  
MAR 26 1987

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 COMPLETION <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 pertinent to this work.)\*

The 11-19 Havasu-Federal was originally staked and permitted with surface location 940' FNL - 800' FWL and bottom hole location 1250' FNL - 490' FWL. The location was moved 850' FNL - 700' FWL. The Eight Point Drilling Program was not changed by this move.

- Attachments:  
 "Revised" Survey Plat  
 "Revised" Thirteen Point Surface Use Plan  
 "Revised" Exhibits 1, 9a and 9b.

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

DATE: 4-2-87  
 BY: John R. Bay  
 WELL SPACING: 302

CONFIDENTIAL INFORMATION

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

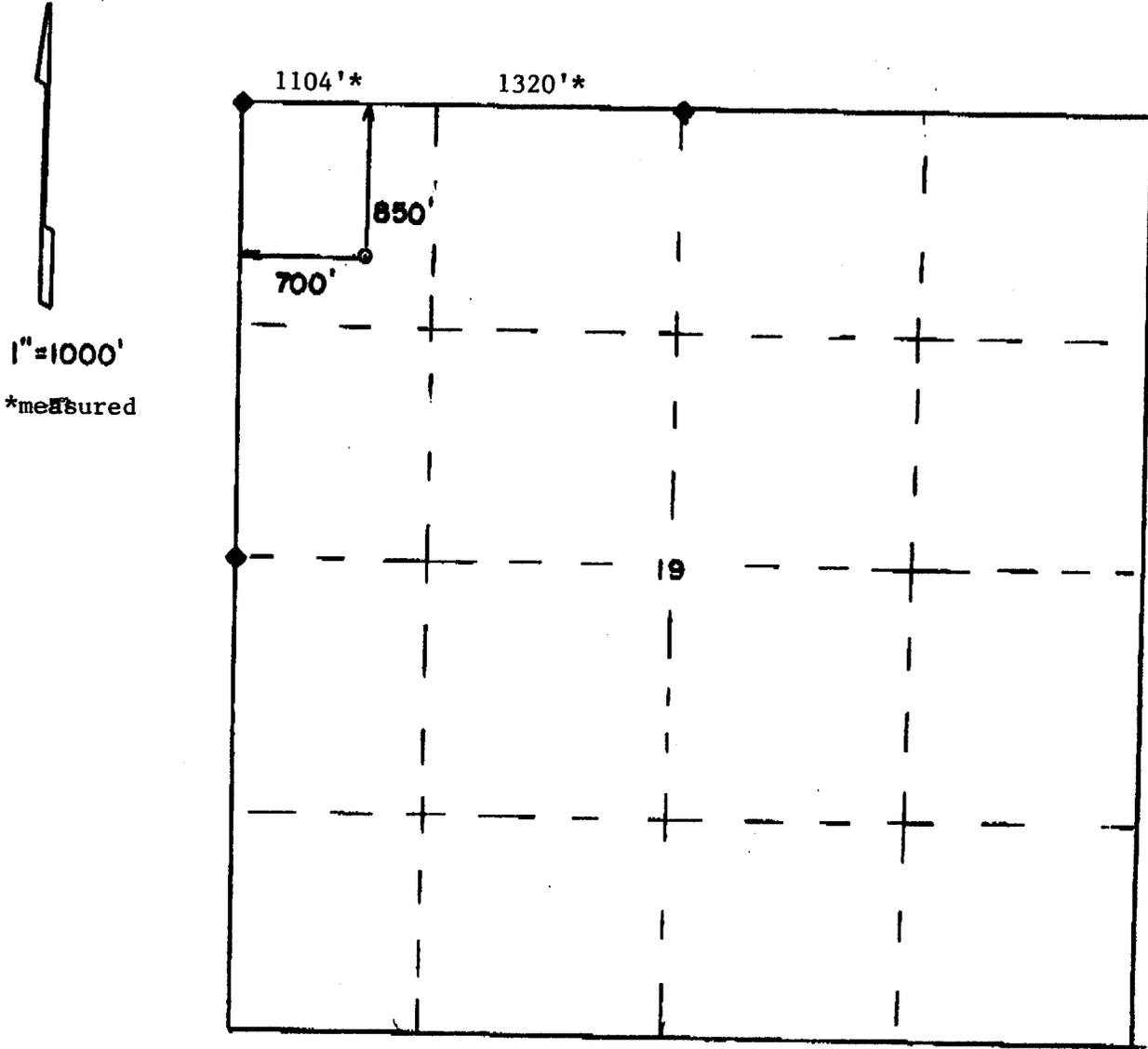
SIGNED: [Signature] Sr. Drilling Engineer DATE: 3/23/87

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Well Location Plat



WELL LOCATION DESCRIPTION:

MERIDIAN OIL  
11-19 Federal Havaasu  
850' FN & 800' FW  
Section 19, T.38 S., R.24 E., SLM  
San Juan County, Utah  
5096' ground elevation  
Alternate: 940' FN & 800' FW, 5094' grd.

The above is true and correct to the best of my knowledge.  
revised:  
Feb. 17, 1987

*Gerald G. Huddleston*  
GERALD G. HUDDLESTON  
REGISTERED LAND SURVEYOR  
STATE OF UTAH

385 24E  
sec. 19

43-037-31287 Pow

43-037-31314 Drl. (cont.)

43-037-31301 Drl. (cont.)

43-037-31282 Pow

43-037-31278 Pow

43-037-31302 Drl. (cont.)

43-037-31296 Drl. (cont.)

~~43-037-31275~~

43-037-31300 Drl. (cont.)

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE

REC'D MCO AUG 10 1984

020831

OIL OR HAZARDOUS SUBSTANCE DISCHARGE

1. Investigation Number \_\_\_\_\_ Date of Spill 1-21-88 Time AM (Military)  
Spill Notification: By \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
Investigators NONE YET  
Investigation Date \_\_\_\_\_ Time \_\_\_\_\_ Investigation Time (man/hrs) \_\_\_\_\_  
EPA Notification NA State Division of Health Notification NA

2. Place of spill ALKALI CANYON  
Legal Description T385 R24E Sec 19  
County SAN JUAN Nearest town BLANDING UTAH  
Did spill enter a waterway? NO If so, name \_\_\_\_\_ class \_\_\_\_\_  
Extent of spill 230 BARRELS  
Type of spill (Region III: Contingency Plan Definitions) major \_\_\_\_\_ medium X  
minor \_\_\_\_\_  
Responsible Polluter MEDICINA OIL Address PILLINGS BLVD  
Contact Person (if known) ILL. BROWN phone number 206 256 4121

Type of Operation - check one:

Pipeline \_\_\_\_\_ Tank Battery X  
Drilling \_\_\_\_\_ Transportation \_\_\_\_\_  
Refinery \_\_\_\_\_ List Vehicle \_\_\_\_\_  
Other \_\_\_\_\_

Type of Oil or Product and Amount:

Gasoline \_\_\_\_\_ Crude X  
Kerosene \_\_\_\_\_ Other \_\_\_\_\_  
(RETURN)

Cause of spill LEAK IN LINE FROM LAC METER TO SLOP TANK  
LEST OIL CONTAINED WITHIN FIREWALL.

3. Draw a simple map showing permanent landmarks and extent of spill on the reverse side of this page.

4. Cleanup Operations: Date of Cleanup Completion 1-26-88 Time \_\_\_\_\_

Methods - check those which apply:

Burning X Absorption \_\_\_\_\_  
Skimming X Burial X  
Pumping X Other (explain) \_\_\_\_\_

Brief summary of cleanup operation (problem, etc.)  
OIL CONTAINED WITHIN FIREWALL - WILL BE PUMPED OUT. REMAINING OIL WILL BE PUMPED AND ANY RESIDUE REMOVED TO RESERVE PIT ON 42-24

5. Remarks \_\_\_\_\_

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads (Yellow)

- a. Location of proposed well in relation to town or other reference point:  
5 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.
- d. An encroachment permit will be obtained from the San Juan County Road Department.

2. Planned Access Roads (Blue)

- a. The maximum total width will be 25 feet.
- b. Maximum grade is 0%.
- c. Turnouts will be constructed as needed.
- d. Road is centerline flagged.
- e. Road will be drained as needed.
- f. If access is utilized during wet-winter weather, road surfacing may be required to prevent road 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 will be combined with Well #22-19 Havasu-Federal tank battery, located SENW Section 19. A Sundry Notice will be filed prior to building the production facilities.

CONFIDENTIAL INFORMATION

All permanent (on site for 6 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 run or any production facilities. Meter runs will be housed and/or fenced.

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

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.

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 not 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 San Juan County Sheriff (801) 587-2237.

Produced waste water will be confined to a (unlined) 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 reserve pit will be located on the south side of the well pad.

The top 6 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 north.

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) 587-2141, 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 Galleta ( <u>Hilaria jamesii</u> )
<u>3</u>	lbs/acre crested wheatgrass ( <u>Agropyron desertorum</u> )
<u>3</u>	lbs/acre Fourwing saltbush ( <u>Atriplex canescens</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.

CONFIDENTIAL

"Revised" O&G Order No. 1  
11-19 Havasu-Federal  
1344N/Page 9

11. Surface Ownership: Federal  
Mineral Ownership: Federal

12. Other Information

Archeological site on south side of location will be fenced with 2-wire fence w/flags prior to construction.

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: 801-587-2141

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.	Steve Cruickshank, Drilling Engineer	406-256-4164	406-252-0701
3.	Barry Winstead, Sr. Drilling Engineer	406-256-4030	406-656-7521
4.	John Pulley, Completion Supt.	406-256-4124	406-259-6156

"Revised" O&G Order No. 1  
11-19 Havasu-Federal  
1344N/Page 10

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.

  
\_\_\_\_\_  
Barty J. Winstead  
Sr. Drilling Engineer

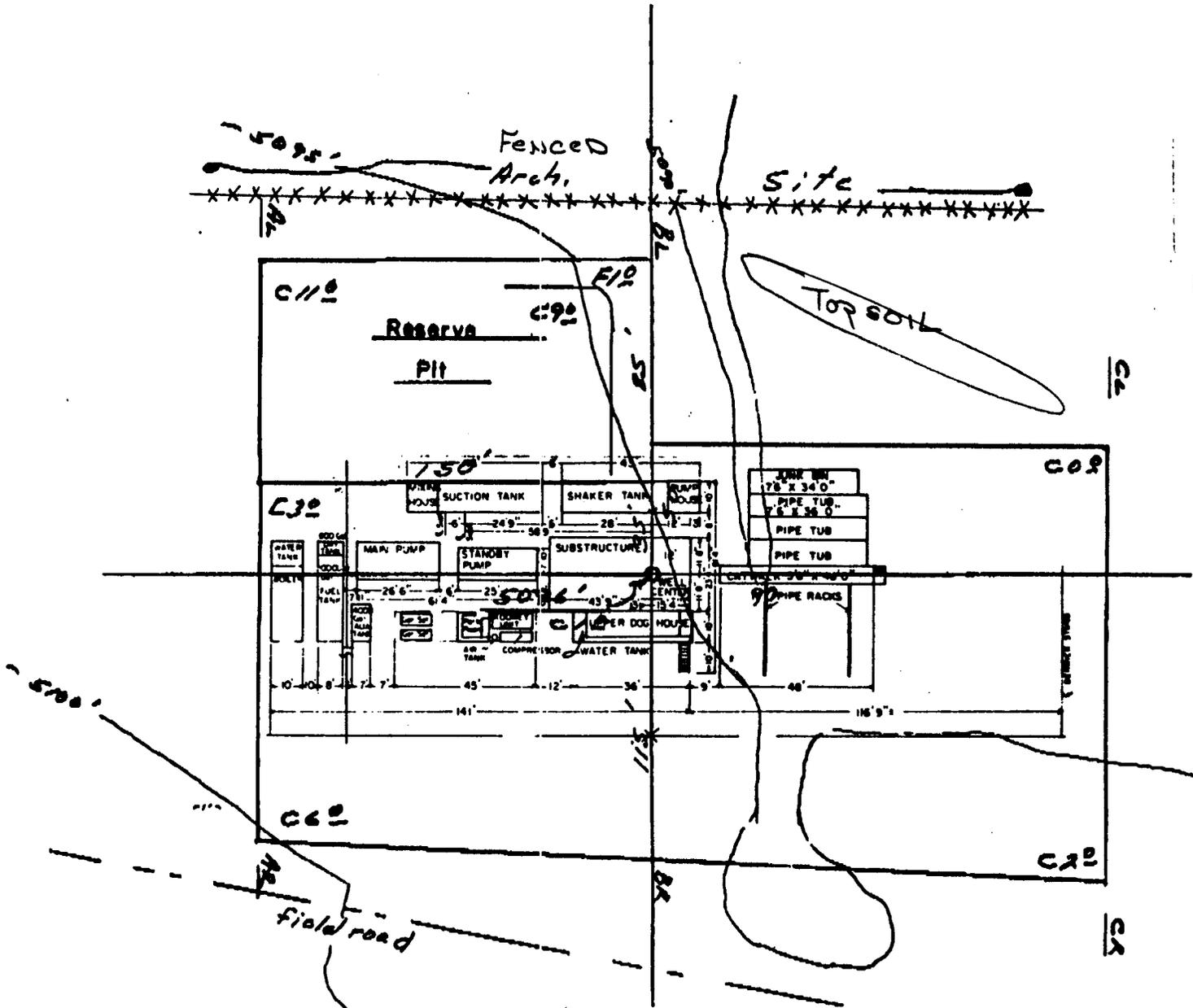
3/23/87  
\_\_\_\_\_  
Date

/ssn

CONFIDENTIAL INFORMATION



Well Pad Planview  
 11-19 Federal Havasu



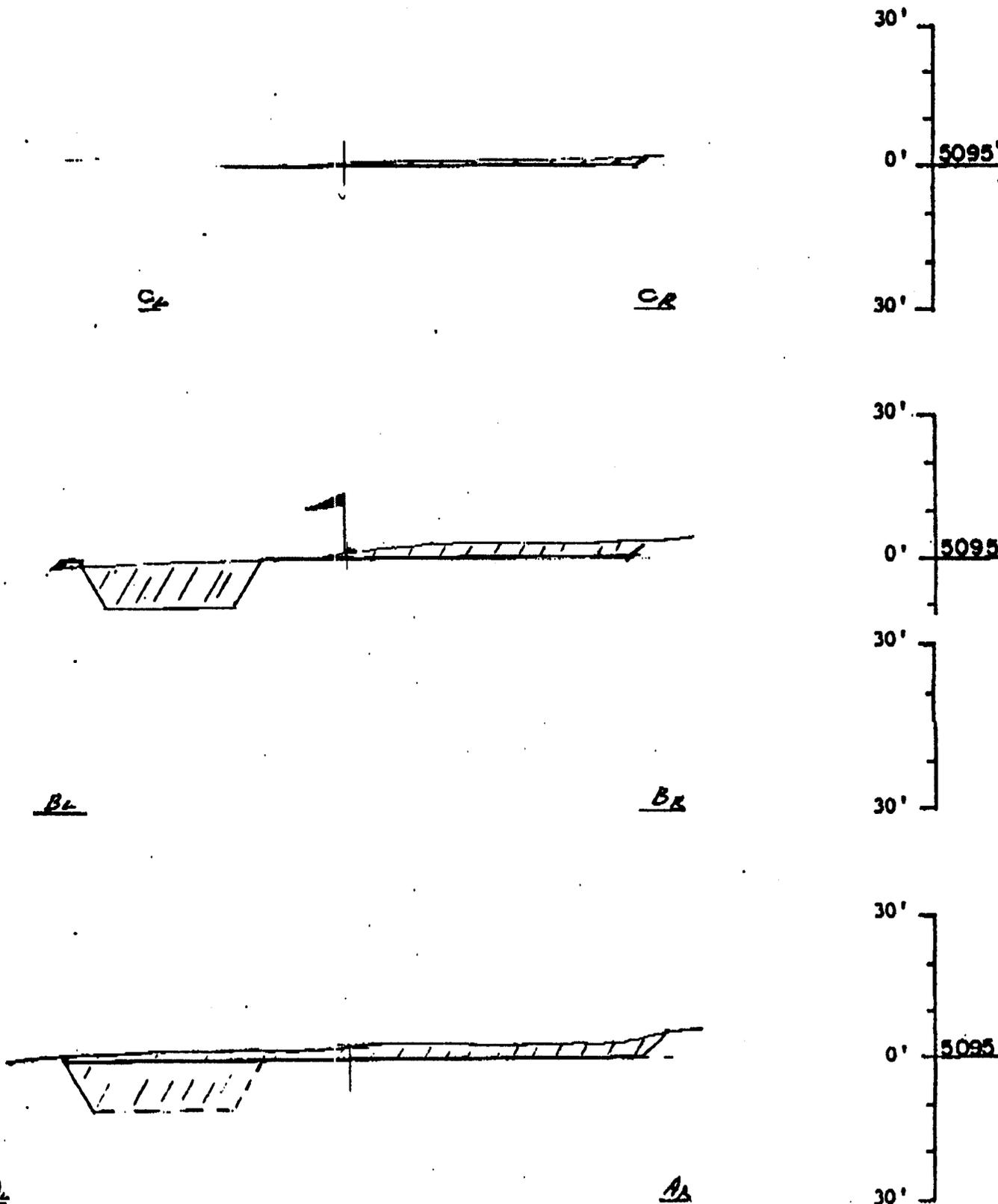
"Revised" EXHIBIT "9a"  
 Rig Layout

WELL PAD CROSS-SECTION

11-19 Federal Navasu

Cut   
Fill 

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





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 2, 1987

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

Gentlemen:

Re: Havasu Federal 11-19 - NW NW Sec. 19, T. 38S, R. 24E  
850' FNL, 700' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, 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

Meridian Oil, Incorporated

Havasu Federal 11-19

April 2, 1987

5. 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) 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 43-037-31314.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals

D. R. Nielson

8159T

Moab District  
P. O. Box 970  
Moab, Utah 84532

APR 11 1988

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

Re: Rescinding Application for  
Permit to Drill  
Well No. Havasu-Federal 11-19  
Sec. 19, T. 38 S., R. 24 E.  
San Juan County, Utah  
Lease U-56186  
43-037-31314

Gentlemen:

The Application for Permit to Drill the referenced well was approved on April 3, 1987. Since that date, no known activity has transpired at the approved location.

Applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely yours,

/S/ GENE NODINE

District Manager

cc:  
State of Utah, Division of Oil, Gas and Mining ✓  
San Juan Resource Area

bcc:  
U-942, Utah State Office

CFreudiger/cf 4/7/88

APR 11 1988

DIVISION OF  
OIL, GAS & MINING



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 22, 1988

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

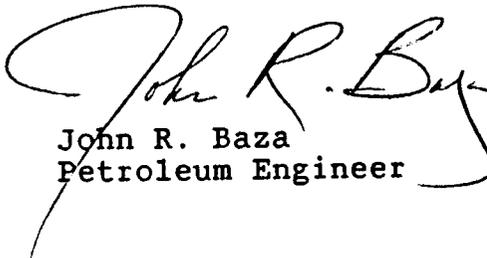
Gentlemen:

Re: Havasu-Federal 11-19, Sec. 19, T. 38S, R. 24E,  
San Juan County, Utah, AFI No. 43-037-31314

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. 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

tc  
cc: BLM-Moab  
D. R. Nielson  
R. J. Firth  
Well file  
0327T-36

CC [redacted]  
[redacted]  
[redacted]  
4-22-88