Ernie Busch

From: Ernie Busch
To: Mike Stogner
Subject: MERIDIAN OIL INC UTE MTN UTE #41(NSL)
Date: Monday, March 25, 1996 8:35AM
Priority: High

UTE MTN. UTE #41
G-30-32N-14W
1730'FNL;1930'FEL
RECOMMEND: APPROVAL

75	AMOCO PRODUCTION CO	JICARILLA CONT. 147	7E	800/N	1620/W	C	08	25N 05W
76	AMOCO PRODUCTION CO	JICARILLA CONT. 147	1E	1560/S	1710/E	J	08	25N 05W
77	AMOCO PRODUCTION CO	JICARILLA CONT. 147	7	1450/S	860/W	L	08	25N 05W
78	AMOCO PRODUCTION CO	JICARILLA CONT. 146	29	870/N	840/E	A	09	25N 05W
79	AMOCO PRODUCTION CO	JICARILLA CONT. 146	29	870/N	840/E	A	09	25N 05W
80	AMOCO PRODUCTION CO	JICARILLA CONT. 146	13E	790/N	1580/E	B	09	25N 05W
81	AMOCO PRODUCTION CO	JICARILLA CONT. 146	13E	790/N	1580/E	B	09	25N 05W
82	AMOCO PRODUCTION CO	JICARILLA CONT. 146	30	880/N	1630/W	C	09	25N 05W
83	AMOCO PRODUCTION CO	JICARILLA CONT. 146	7	1150/N	850/W	D	09	25N 05W
84	AMOCO PRODUCTION CO	JICARILLA CONT. 146	23	870/N	790/W	D	09	25N 05W
85	AMOCO PRODUCTION CO	JICARILLA CONT. 146	10E	1520/N	1030/W	E	09	25N 05W
86	AMOCO PRODUCTION CO	JICARILLA CONT. 146	14	1591/S	1594/E	J	09	25N 05W
87	AMOCO PRODUCTION CO	JICARILLA CONT. 146	13R	1635/S	1500/E	J	09	25N 05W
88	AMOCO PRODUCTION CO	JICARILLA CONT. 146	13	1650/S	1550/E	J	09	25N 05W
89	AMOCO PRODUCTION CO	JICARILLA CONT. 146	28	1170/S	1170/W	M	09	25N 05W
90	AMOCO PRODUCTION CO	JICARILLA CONT. 146	15	940/S	1450/W	N	09	25N 05W
91	AMOCO PRODUCTION CO	JICARILLA CONT. 146	10	1190/S	1550/W	N	09	25N 05W
92	AMOCO PRODUCTION CO	JICARILLA CONT. 146	8	990/S	1650/E	O	09	25N 05W
93	AMOCO PRODUCTION CO	JICARILLA CONT. 146	22	830/S	860/E	A	10	25N 05W
94	AMOCO PRODUCTION CO	JICARILLA CONT. 146	22	830/S	860/E	A	10	25N 05W
95	AMOCO PRODUCTION CO	JICARILLA CONT. 146	32	1110/N	810/E	A	10	25N 05W
96	AMOCO PRODUCTION CO	JICARILLA CONT. 146	32	1110/N	810/E	A	10	25N 05W
97	AMOCO PRODUCTION CO	JICARILLA CONT. 146	3	990/N	1140/W	D	10	25N 05W
98	AMOCO PRODUCTION CO	JICARILLA CONT. 146	22E	1120/N	1120/W	D	10	25N 05W
99	AMOCO PRODUCTION CO	JICARILLA CONT. 146	31	1660/N	1095/W	E	10	25N 05W
100	AMOCO PRODUCTION CO	JICARILLA CONT. 146	31	1660/N	1095/W	E	10	25N 05W
101	AMOCO PRODUCTION CO	JICARILLA CONT. 146	9E	1760/S	960/E	I	10	25N 05W
102	AMOCO PRODUCTION CO	JICARILLA CONT. 146	4	1800/S	1800/E	J	10	25N 05W
103	AMOCO PRODUCTION CO	JICARILLA CONT. 146	9	1090/S	1090/W	M	10	25N 05W
104	AMOCO PRODUCTION CO	JICARILLA CONT. 146	16	890/S	1190/W	M	10	25N 05W
105	AMOCO PRODUCTION CO	JICARILLA CONT. 146	33	970/S	1120/E	P	10	25N 05W
106	AMOCO PRODUCTION CO	JICARILLA CONT. 146	33	970/S	1120/E	P	10	25N 05W
107	AMOCO PRODUCTION CO	JICARILLA CONT. 148	40	930/N	730/E	A	13	25N 05W
108	AMOCO PRODUCTION CO	JICARILLA CONT. 148	37	990/N	1660/W	C	13	25N 05W
109	AMOCO PRODUCTION CO	JICARILLA CONT. 148	4	1650/N	1650/W	F	13	25N 05W
110	AMOCO PRODUCTION CO	JICARILLA CONT. 148	11	1450/N	990/E	H	13	25N 05W
111	AMOCO PRODUCTION CO	JICARILLA CONT. 148	41	1800/S	1660/E	J	13	25N 05W

MERIDIAN OIL
A Subsidiary of BURLINGTON RESOURCES

March 15, 1996

Sent Federal Express

RECEIVED
MAR 18 1996
OIL CON. DIV.
DIST. 3

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Re: Ute Mountain Ute #41
1730'FNL, 1930'FEL, Section 30, T-32-N, R-14-W, San Juan County, New Mexico
API # 30-045-(not yet assigned)

Dear Mr. LeMay:

Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above location in the Barker Dome Desert Creek formation. This application for the referenced location is due to terrain, the presence of archaeology, and at the request of the Ute Mountain Ute Tribe.

The following attachments are for your review:

1. Application for Permit to Drill.

2. Completed C-102 at referenced location.

3. Offset operators/owners plat - Meridian Oil is the operator of the surrounding proration unit

4. 7.5 minute topographic map showing the orthodox windows, and enlargement of the map to define topographic features.

We appreciate your earliest consideration of this application.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator

encs.

P.O. Box 4289, Farmington, New Mexico 87499-4289. Telephone 505-326-9700. Fax 505-326-9833
3535 East 30th St., 87402-8891

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

5. Lease Number
I-22-IND-2772
Unit Reporting Number

1b. Type of Well
GAS

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OIL CON. DIV.
DIST. 3

6. If Indian, All. or Tribe
Ute Mountain Ute

2. Operator
MERIDIAN OIL

7. Unit Agreement Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name
Ute Mountain Ute

9. Well Number
41

4. Location of Well
1730'FNL, 1930'FEL

Latitude 36° 57.7, Longitude 108° 20.8

10. Field, Pool, Wildcat
Barker Dome Desert Creek

11. Sec., Twn, Rge, Mer. (NMPM)
Sec 30, T-32-N, R-14-W

API # 30-045-

14. Distance in Miles from Nearest Town
8 miles to LaPlata

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
1730'

16. Acres in Lease

17. Acres Assigned to Well
320 E/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
3300'

19. Proposed Depth
9290'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6902'GR

22. Approx. Date Work will Start
2nd quarter 1996

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: _____
for Regional Drilling Engineer

2-12-96
Date

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

Archaeological Report submitted by LaPlata Archaeological Consultants Report #9537h dated 10-03-95
Threatened and Endangered Species Report submitted by Ecosphere Environmental Services dated 10-09-95
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-1
Revised February 21, 19
Instructions on ba
Submit to Appropriate District Offi
State Lease - 4 Cop
Fee Lease - 3 Cop

☐ AMENDED REPO

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-045-	96353	Barker Dome Desert Creek

⁴ Property Code	⁵ Property Name	⁶ Well Number
	Ute Mtn. Ute	41

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
14538	Meridian Oil Inc.	6902'

¹⁰ Surface Location

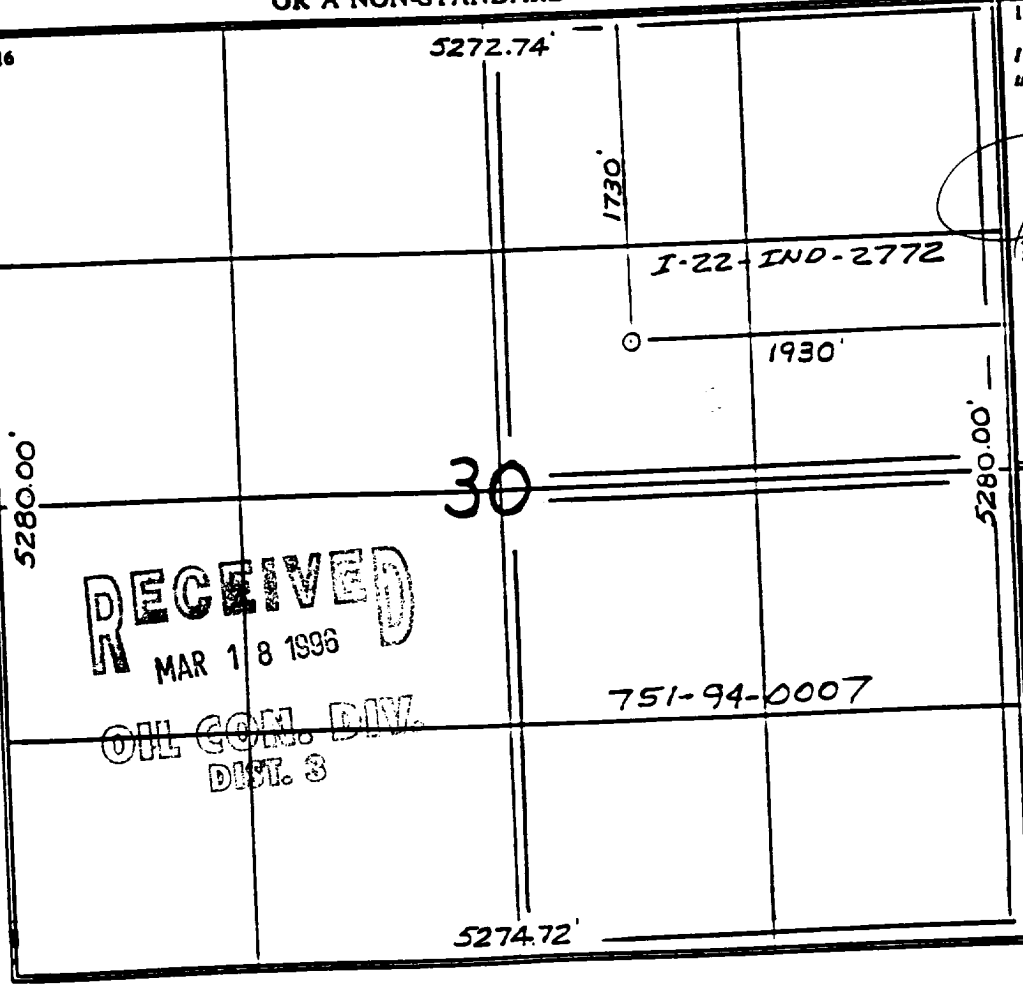
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	30	32 N	14 W		1730	NORTH	1930	EAST	S.J.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
E/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATE
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



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MAR 18 1996
OIL CON. DIV.
DIST. 3

¹⁷ OPERATOR CERTIFICATI

I hereby certify that the information contained herein true and complete to the best of my knowledge and b

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
1-5-96
Date

¹⁸ SURVEYOR CERTIFICATI

I hereby certify that the well location shown on this was plotted from field notes of actual surveys made or under my supervision, and that the same is true correct to the best of my belief.

9-09-95
Date of Survey
Signature and Seal of Professional Surveyor:

NEW MEXICO
REGISTERED
9857
REGISTERED LAND SURVEYOR

Certificate Number

January 5, 1996

OPERATIONS PLAN

Well Name: Ute Mountain Ute #41
Location: 1730'FNL, 1930'FEL, Section 30, T-32-N, R-14-W
San Juan County, NM
Formation: Barker Dome Desert Creek
Elevation: 6902'GR

Formation:	Top	Bottom	Contents
Surface	Menefee	823'	
Point Lookout	823'	1305'	fresh water
Mancos	1305'	2318'	
8 5/8" surface casing	**1555'**		**± 250' into Mancos**
Niobrara	2318'	2980'	
Greenhorn	2980'	3060'	
Graneros	3060'	3106'	
Dakota	3106'	3374'	gas
Morrison	3374'	3873'	fresh water
Junction Creek	3873'	4239'	salt water
Summerville	4239'	4333'	
Todilto	4333'	4345'	
Entrada	4345'	4447'	salt water
Chinle	4447'	5916'	
Cutler	5916'	7505'	
Hermosa	7505'	8628'	
Ismay	8628'	8820'	gas (potentially 100-1580 ppm H_2S)
Desert Creek	8820'	8923'	gas (potentially 4-11,900 ppm H_2S)
Akah	8923'	9088'	
Upper Barker Creek	9088'		gas (potentially 0-12,000 ppm H_2S)
Total Depth	**9290'**		

Logging Program:
Mud logs - Niobrara to Total Depth
Wireline Logs - AIT,LDT-APS,DSSI,FMI - to Total Depth

Mud Program:

Interval	Type	Weight	Vis	Fluid Loss
0 - 90'	Air	N/A	N/A	N/A
90 - SCP	Spud	8.4-8.9	40	No Control
SCP-T.Ismay	Fresh Water	8.4-8.6	26-30	No Control
T.Ismay-TD	LSND/Dispersed	8.4-9.0	36-50	Less than 12

Casing Program: (all casing will be new)

Hole Size	Depth Interval	Csg.Size	Wt.	Grade
26"	0' - 90'	16"		Conductor
12 1/4"	0' - 1555'	8 5/8"	24.0#	K-55 LT&C
7 7/8"	0' - 9290'	5 1/2"	17.0#	L-80 LT&C

Tubing Program: 0' - 9290' 2 7/8" tubing

Operations Plan
Ute Mountain Ute #41

Pressure Control Program:

12 1/4" hole - diversion only

7 7/8" hole - a 3000 psi WP casinghead will be installed on the surface casing. A 3000 psi WP annulus preventer, a 3000 psi WP double gate preventer equipped with blind and pipe rams, and a 3000 psi x 3000 psi WP drilling spool with kill and choke lines will be nippled up on the casinghead. The annulus preventer will be tested to 500 psi low, 1500 psi high w/test plug for 15 minutes. Pipe and blind rams, choke line, and manifold will be tested at 500 psi low and 3000 psi high with a test plug for 15 minutes. Casing will be tested to 2200 psi (75% burst) prior to drilling the shoe.

Completion - a 5000 psi WP tubinghead will be installed on the production casing. A 5000 psi WP double gate preventer equipped with blind and pipe rams and a 5000 psi drilling spool equipped with kill and choke lines will be nippled up on the tubinghead. One 7" blooie line will be nippled up above the BOP's. A rotating head will be nippled up on top of the blooie line. Pipe and blind rams, choke line, and manifold will be tested at 500 psi and 4000 psi against casing. Casing will be tested to 4000 psi prior to completing the well.

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. Blow out preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. All tests will be reported on the daily drilling report. Preventers will be tested before drilling casing cement plugs.

In the event that a kick is taken while drilling, the following procedure will be followed:

1. Pick up kelly and raise the tool joint above floor.
2. Shut down the mud pump.
3. Close the annular preventer.
4. Record standpipe pressure (SIDPP) after it stabilizes and pit gain.
5. Calculate Initial Circulating Pressure=Slow Circulating Pressure+ SIDPP.
6. Calculate kill mud weight required.
7. Complete kill sheet.
8. Decide whether to raise mud weight or drill under-balanced.

BOP Configuration:

26" conductor hole	-	0' - 90' - not applicable
12 1/4" surface hole	-	90' - 1555' - diverter only
3000 psi system 7 7/8" production hole	-	1555' - 9290' - Figures #1 & #2

Operations Plan
Ute Mountain Ute #41

Float Equipment:
Surface casing - guide shoe, float collar, centralizers every 4th joint.
Production casing - float shoe, float collar, centralizers every 4th joint.

Wellhead Equipment (sour gas service):
11" 3000 psi x 8 5/8" female thread casinghead
11" 3000 psi x 7 1/16" 5000 psi tubinghead
7 1/16" 5000 psi x 2 7/8" 5000 psi adapter
Tree assembly for single completion gas service.

Cementing:
16" conductor casing - Reddymix - grout to surface

8 5/8" surface casing - cement with 658 sx Class "B" 65/35 Pozmix with 0.25 pps flocele, 6% gel and 2% calcium chloride (12.4 ppg, 1165 cu.ft. of slurry). Tail with 100 sx Class "B" neat with 0.25 pps and 2% calcium chloride (15.6 ppg weight; 118 cu.ft. of slurry), 100% excess circulated to surface.

5 1/2" production - 1206 sx 50/50 Class "B" blended Silicalite, 3 pps gilsonite, 0.375 pps flocele (11.45 ppg, 2810 cu.ft. of slurry.) Tail with 310 sx Class "G" 50/50 Poz with 2% gel, 5 pps gilsonite, 0.25 pps flocele, and 0.4% Halad-344 (13.5 ppg, 410 cu.ft. of slurry), 100% excess circulated to surface.

Coring & Drill Stem Test Program: a 60' core is planned for the Desert Creek interval.

Anticipated abnormal pressures or temperatures: none

Operations Plan
Ute Mountain Ute #41

Anticipated potentially hazardous conditions:

1. H_2S is anticipated to exist from the Paradox (Ismay) formation to Total Depth.

2. Anticipated concentrations are estimated at 300 - 500 ppm.

3. All gasses encountered will be flared.

4. H_2S safety equipment will be operational at 1000' above Paradox (Ismay) formation.

5. H_2S safety equipment will be provided for all personnel on location at all times.

6. All personnel on location will be H_2S certified.

7. An H_2S trained professional will be on location at all pertinent times; i.e., DST's, cementing operations, under-balanced drilling, etc.

8. The toxicity of H_2S gas is as follows:

1 ppm = .0001% (1/10,000 of 1%)	Can smell.
10 ppm = .001% (1/1000 of 1%)	Allowable for 8 hrs. exposure
50 ppm = .005% (5/1000 of 1%)	NOTE: when H_2S concentration reaches 10 ppm on the rig floor, call for the safety trailer.
100 ppm = .01% (1/100 of 1%)	Kills smell rapidly. Burns eyes and throat.
500 ppm = .05% (5/100 of 1%)	Loses sense of reasoning and balance. Respiratory disturbances in 2-15 min. Needs prompt artificial resuscitation.
700 ppm = .07% (7/100 of 1%)	Will become unconscious quickly. Breathing will stop and death will result if not rescued promptly.
1,000 ppm = .10% (1/10 of 1%)	Unconscious at once. PERMANENT BRAIN DAMAGE MAY RESULT UNLESS RESCUED PROMPTLY.

H_2S Drilling Operations Plan

1. Training Program - Meridian Oil will ensure all personnel have been properly H_2S trained as per API RP 49 prior to three days or 1000 feet prior to penetrating the Pennsylvian. An initial training session and weekly H_2S and well control drills for all personnel in each working crew will be conducted. Each training session and drill will be recorded on the drillers log. Two briefing areas will be designated and located at least 150 feet from the wellbore. One such briefing area will be upwind of the well at all times. John Dolan, Meridian Oil Safety Representative, will be designated and identified to all personnel on-site as responsible for on-site safety and training programs.

2. Protective Equipment - Meridian Oil will ensure respiratory protection equipment program is implemented as per ANSI 2.88.2-1980. Proper breathing apparatus will be readily accessible for all essential personnel, meaning one working breathing apparatus including a five minute escape-type SCBA for the derrickman, available for all essential personnel. The following additional safety equipment will be available for use:

   a. Effective means of communication when using breathing apparatus.

   b. A flare gun and flares to ignite well.

   c. A telephone, radio, mobile phone or other device that provides communication from a safe area, where practical.

3. H_2S Detection and Monitoring Equipment

   a. Drilling - will be three sensing points (shale shaker, rig floor, bell nipple) with rapid response sensors capable of sensing a minimum of 10 ppm of H_2S, in ambient air, which automatically activates visible and audible alarms at levels or threshold limits of 10 and 15 ppm, respectively.

      Completion - same as above except sensors will be located at the rig floor, cellar, and shale shaker or circulating tank.

      Workover - will have one sensor operational as close to the wellbore as possible.

   b. All tests on H_2S monitoring system will be recorded on drillers log.

4. Visible Warning System

   a. Wind direction indicators (drilling (2); completion/workover (1)) will be located at separate elevations with one indicator clearly visible at all times from principle working areas. The wind indicator will be clearly visible from the briefing areas or additional indicators will be installed at such areas.

b. Operation Danger or Caution signs will be displayed along all controlled accesses to the site. each sign will be painted high visibility red, black, and white or yellow with black lettering. Signs will be large enough to be read by all persons entering the wellsite and be placed a minimum of 200 feet but no more than 500 feet from the wellsite.

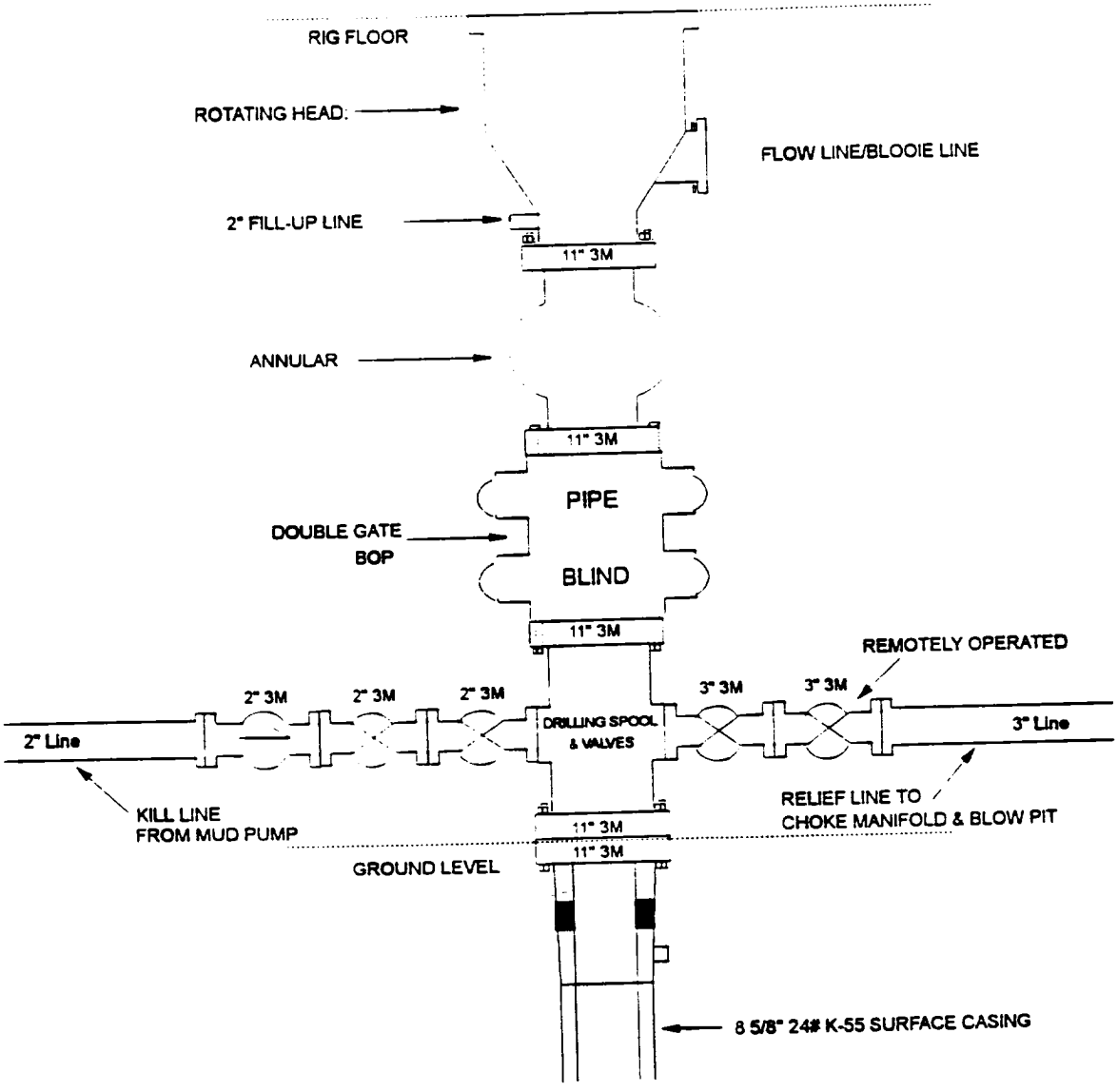
c. The sign(s) will read "DANGER - POISON GAS - HYDROGEN SULFIDE" and in smaller lettering, "Do not approach if red flag is flying".

d. When H_2S is detected in excess of 10 ppm, red flag(s) will be displayed and visible to all personnel approaching the location under normal lighting and weather conditions.

5. Warning System Response - H_2S detected above 10 ppm will initiate all non-essential personnel to be moved to a safe area ad all essential personnel to don breathing apparatus.

MERIDIAN OIL INC.

Drilling Rig
Surface Casing BOP Configuration
3,000 psi System



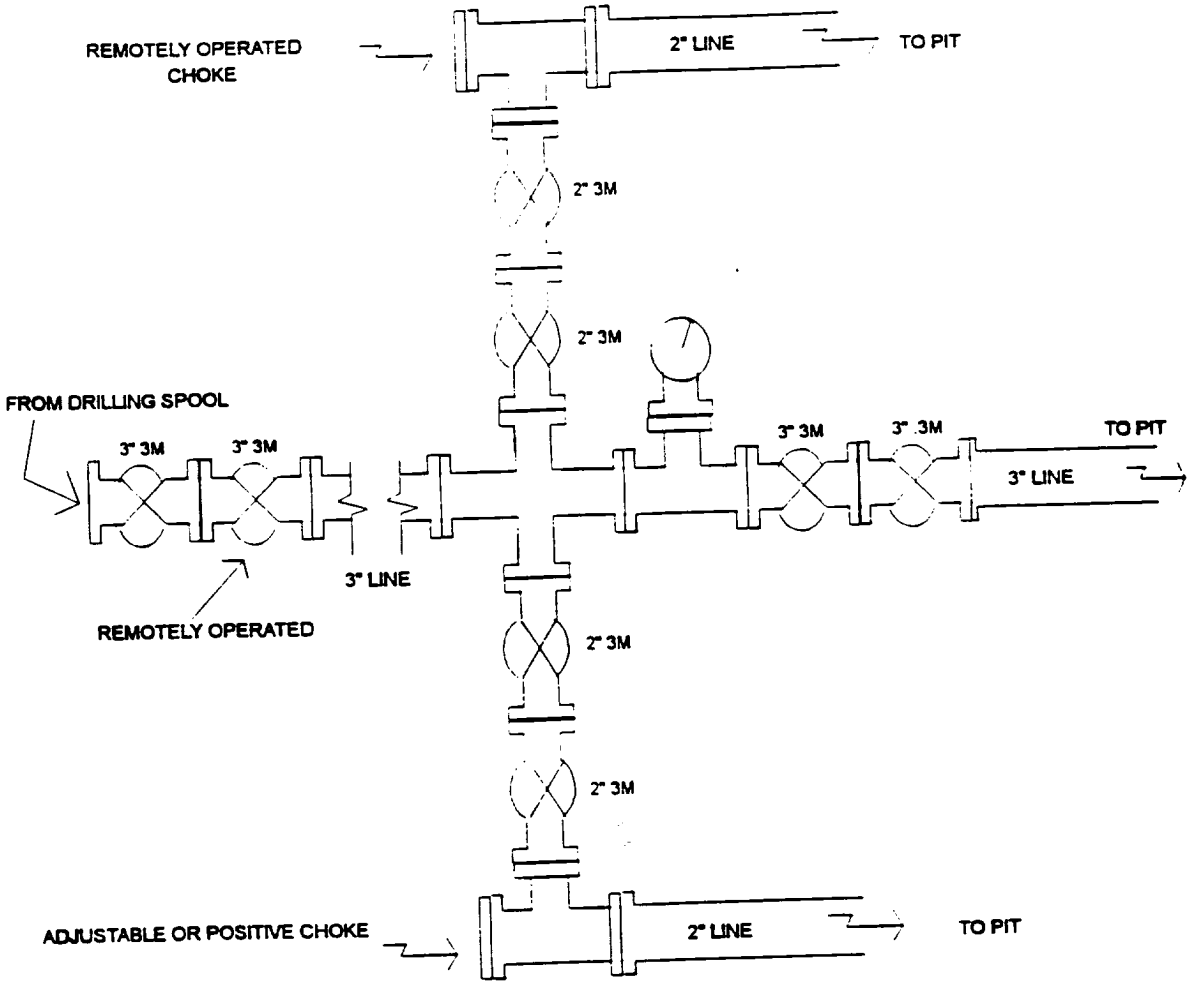
BOP installation from Surface Casing Point to Total Depth. 11" Bore (10" Nominal), 3,000psi working pressure double gate BOP to be equipped with blind and pipe rams. A 3,000psi Annular preventer to be installed on top of rams. A rotating head on the top of Annular preventer. All BOP equipment is 3,000psi working pressure.

Figure #1

03/16/95

MERIDIAN OIL INC.

Drilling Rig
Choke Manifold Configuration
3000 psi System



Choke manifold installation from surface Casing Point to Total Depth. 3,000psi working pressure equipment with two chokes.

Figure #2

03/16/95

MERIDIAN OIL

Ute Mountain Ute #41
Multi-Point Surface Use Plan

1. Existing Roads - Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Indian Affairs right-of-way has been applied for as shown on Map No. 1.

2. Planned Access Road - Refer to Map No. 1. The required new access road is shown on Map No. 1. The gradient, shoulder, crowning and other design elements will meet or exceed those specified by the responsible government agency. The new access road surface will not exceed twenty feet (20') in width. No additional turnarounds or turnouts will be required. Upon completion of the project, the access road will be adequately drained to control soil erosion. Approximately 600' of access road will be constructed. Pipelines are indicated on Map No. 1A.

3. Location of Existing Wells - Refer to Map No. 1A.

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

   a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.

   b. Off the Well Pad - Anticipated facilities off the well pad will be applied for as required.

5. Location and Type of Water Supply - Water will be hauled by truck for the proposed project and will be obtained from Hart Canyon Water Hole located in SE/4 Section 26, T-31-N, R-11-W, New Mexico

6. Source of Construction Materials - If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.

7. Methods of Handling Waste Materials - All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. Reserve pits will be lined as needed with either 12 mil bio-degradable plastic liner or a bentonite liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.

8. Ancillary Facilities - None anticipated.

9. Wellsite Layout - Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.

11. Surface Ownership - Ute Mountain Ute Tribe.

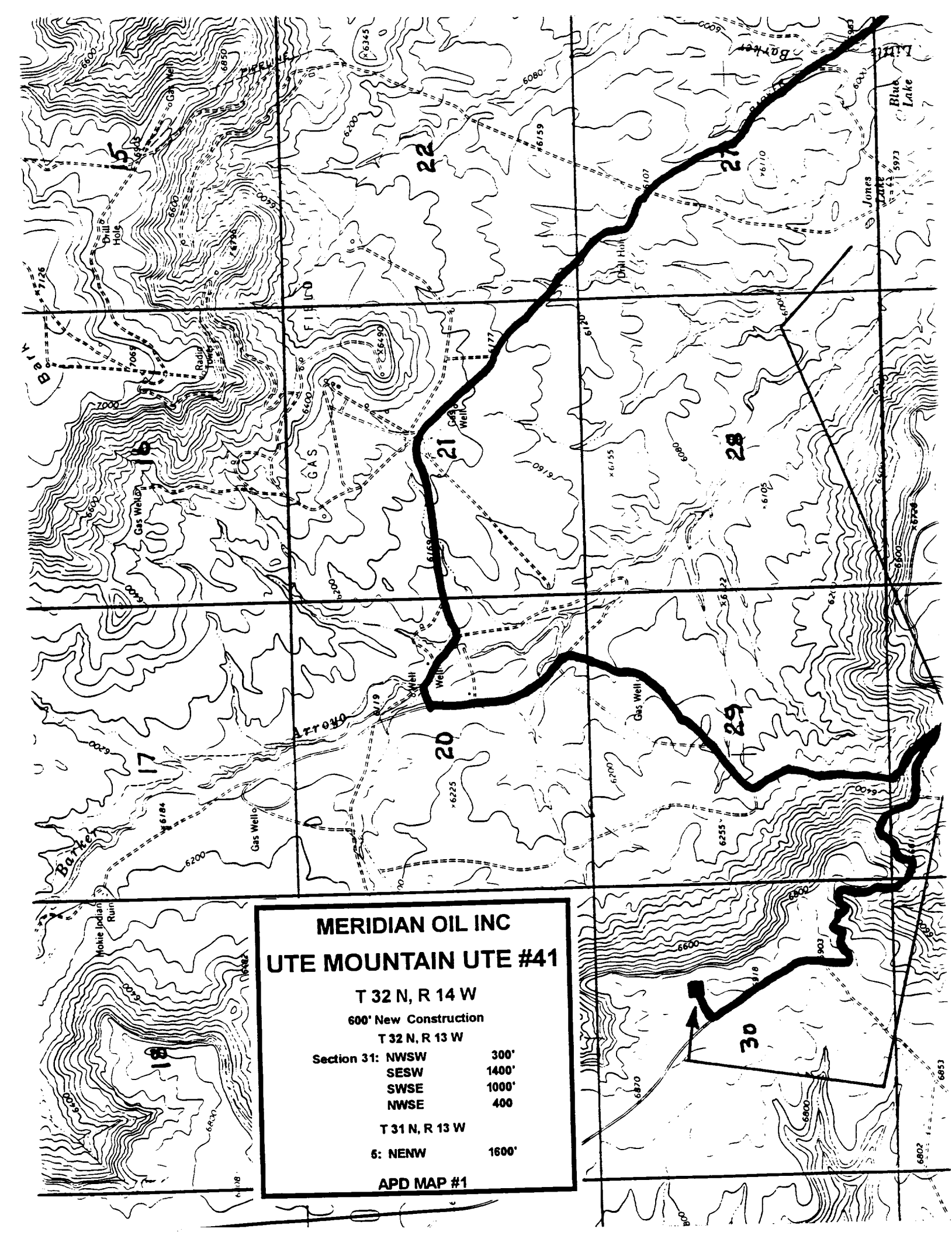
12. Other Information - Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

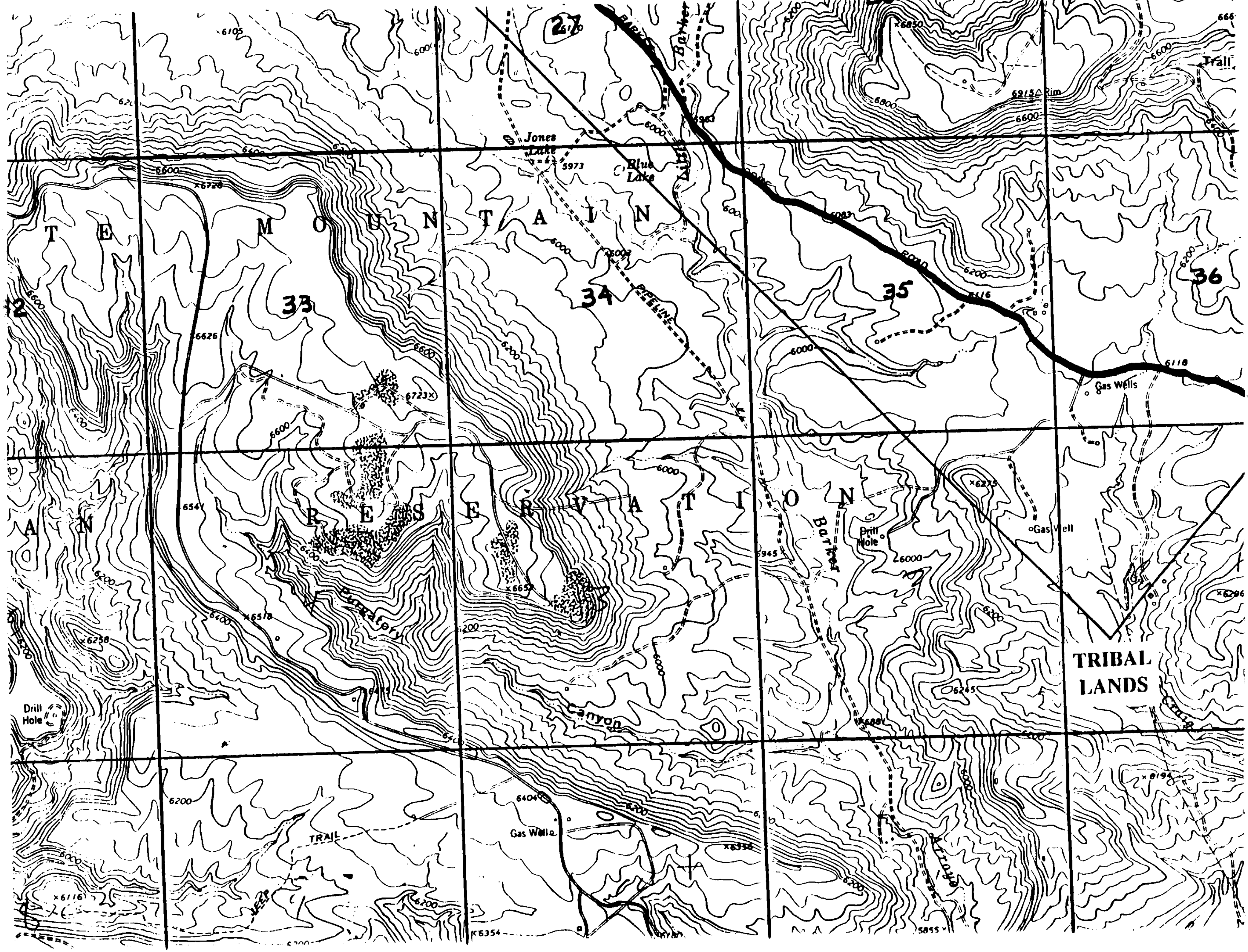
13. Operator's Representative and Certification - Meridian Oil Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar 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.

for Regional Drilling Engineer

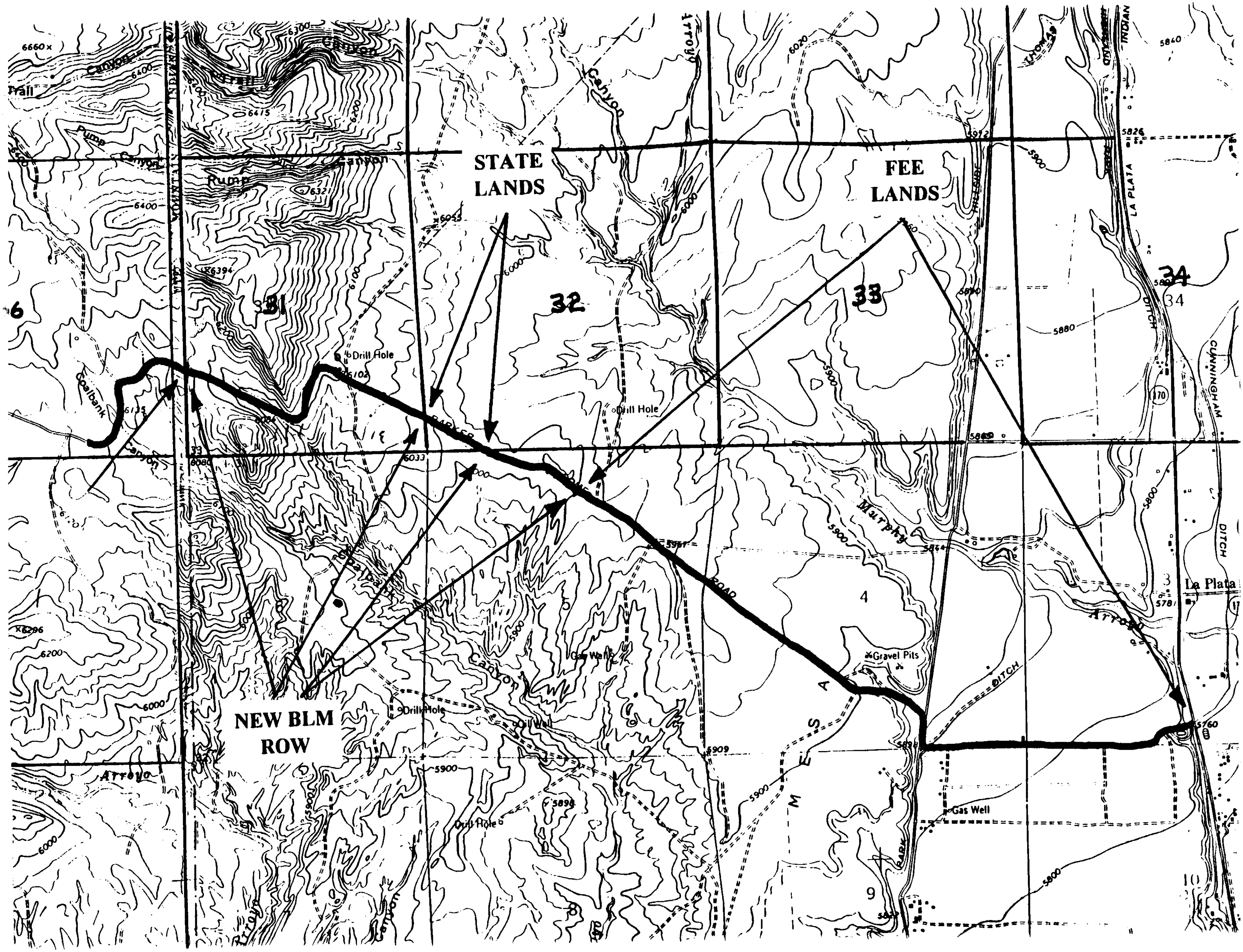
2-12-96
Date

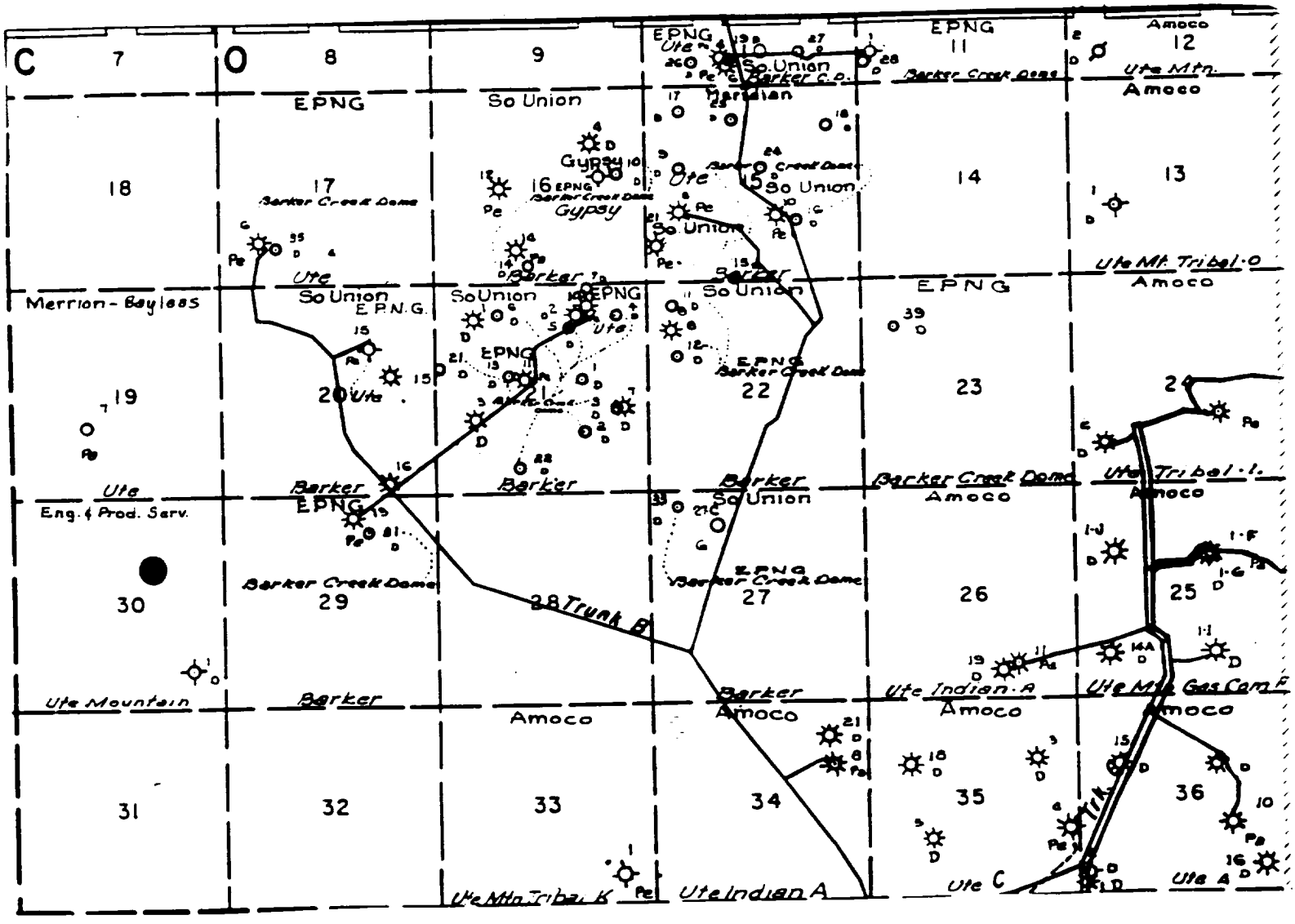
JWC:pb


MERIDIAN OIL INC
UTE MOUNTAIN UTE #41
T 32 N, R 14 W
600' New Construction
T 32 N, R 13 W
Section 31: NWSW 300'
SESW 1400'
SWSE 1000'
NWSE 400
T 31 N, R 13 W
5: NENW 1600'
APD MAP #1



TE MOUNTAIN
AN RESERVATION
TRIBAL LANDS
33
34
35
36
27
Jones Lake
Blue Lake
Little
Barker
BARKER ROAD
PIPELINE
Purgatory
Canyon
Arroyo
Gas Wells
Gas Well
Drill Hole
TRAIL
JEEP
Trail
Rim

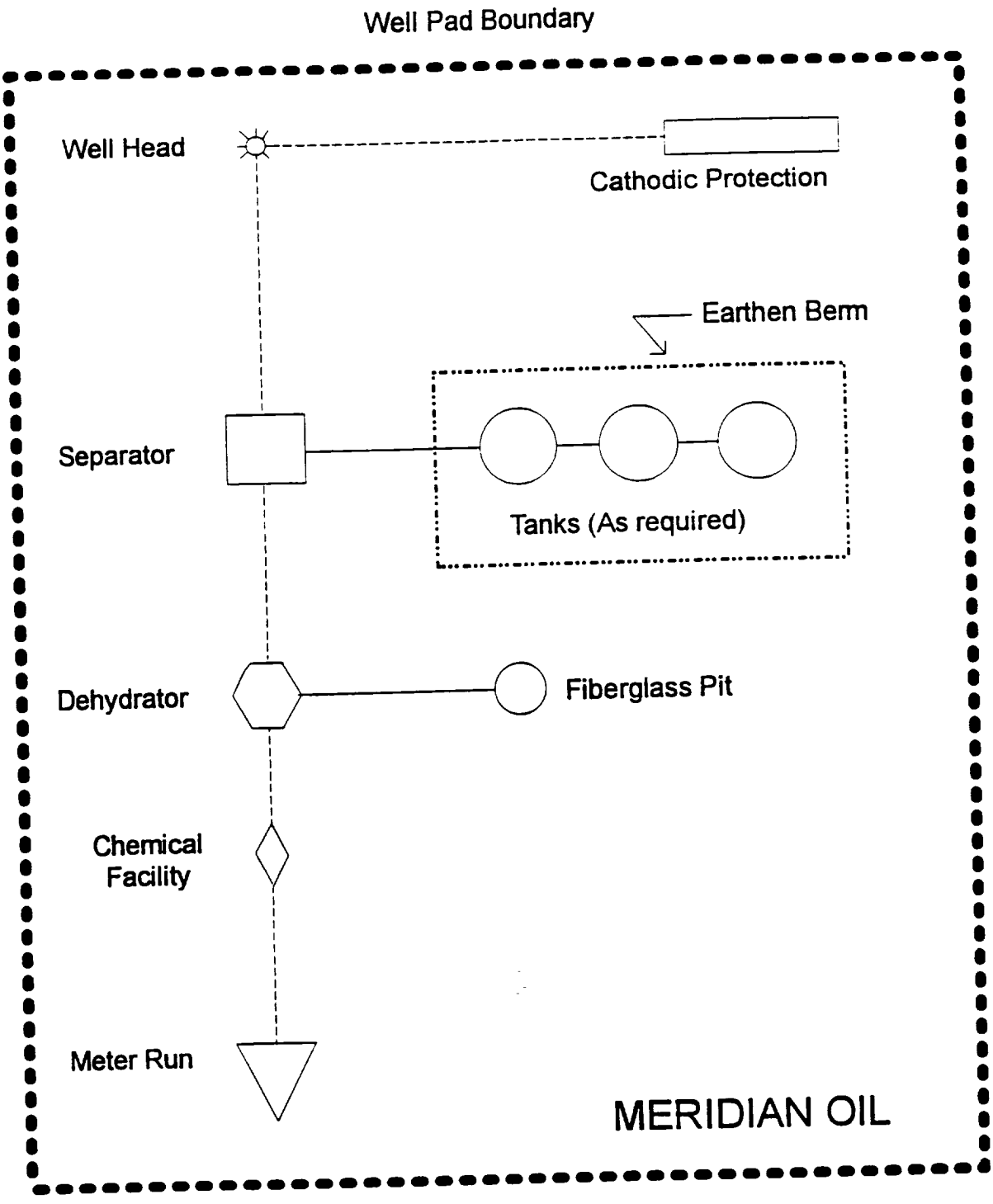

STATE
LANDS
FEE
LANDS
NEW BLM
ROW
31
32
33
34
6
4
9
10
La Plata
CUNNINGHAM
DITCH
LA PLATA
INDIAN
HILLSIDE
Murphy
Arroyo
Canyon
Coalbank
Canyon
Pump
Canyon
Trail
PARKER
ROAD
M E S A
Gravel Pits
Gas Well
Drill Hole
Oil Well
170
5760
5781
5826
5840
5880
5900
5909
6033
6102
6394
6415
6660 x



MERIDIAN OIL INC.
Pipeline Map
T-32-N, R-14-W
San Juan County, New Mexico

MAP # 1A
Ute Mountain Ute #41

3/91 adw/mjb



ANTICIPATED

PRODUCTION FACILITIES

FOR A

PARADOX WELL

AMM 02/11/94

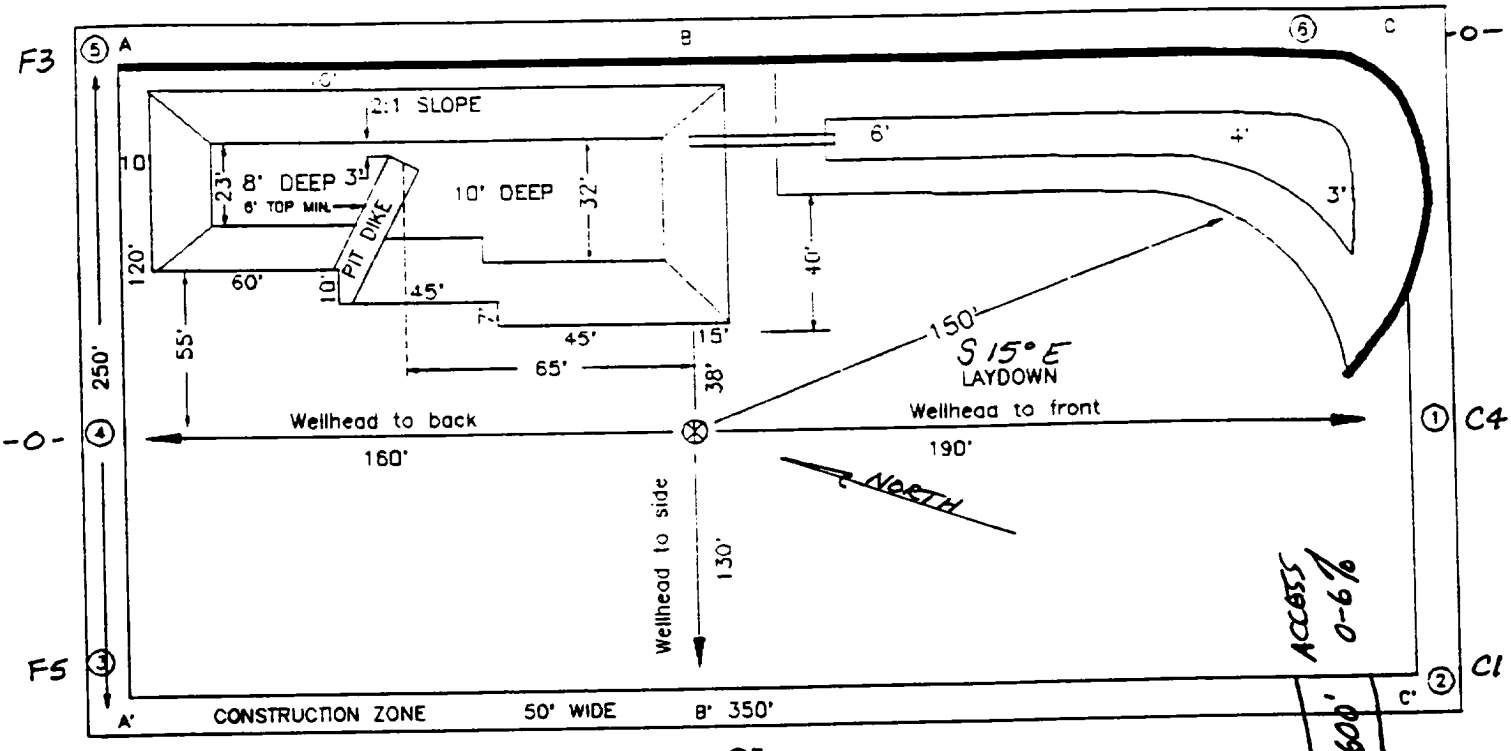
MERIDIAN OIL

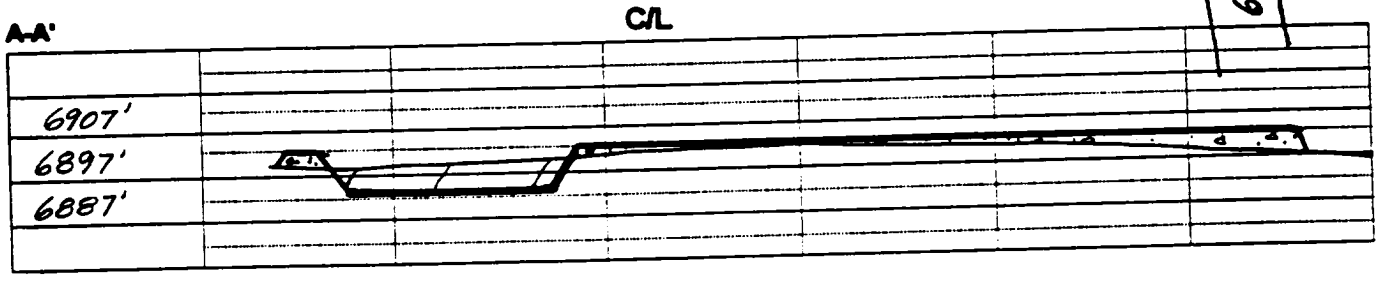
PLAT #3

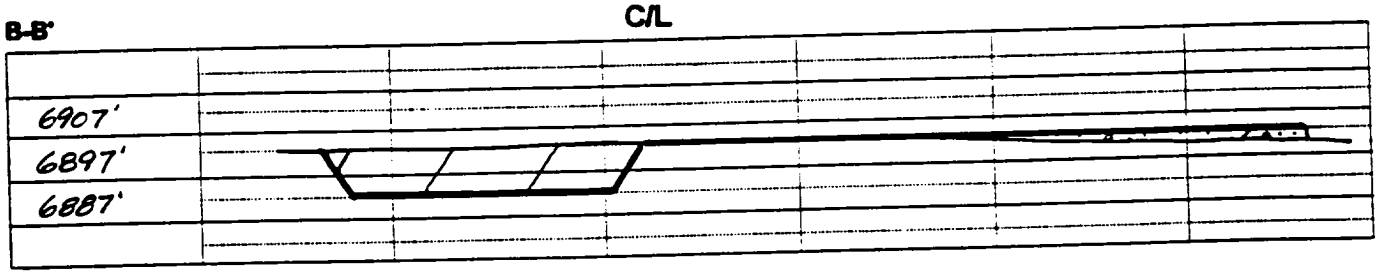
BARKER DOME

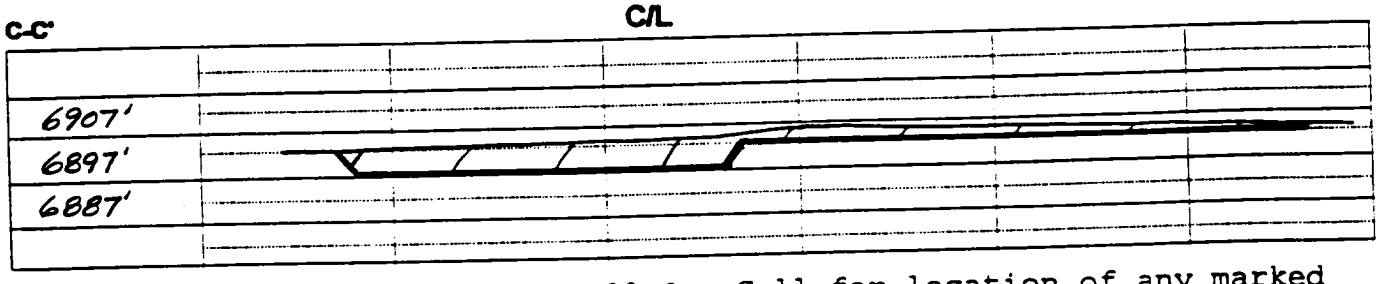
HORIZONTALS

NAME: UTE MTN UTE #41
FOOTAGE: 1730' FNL, 1930' FEL
SEC 30 TWN 32 N,R 14 W NMPM
CO: SAN JUAN ST: NEW MEXICO
ELEVATION: 6897 DATE: 9-05-95









Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 working days prior to construction.

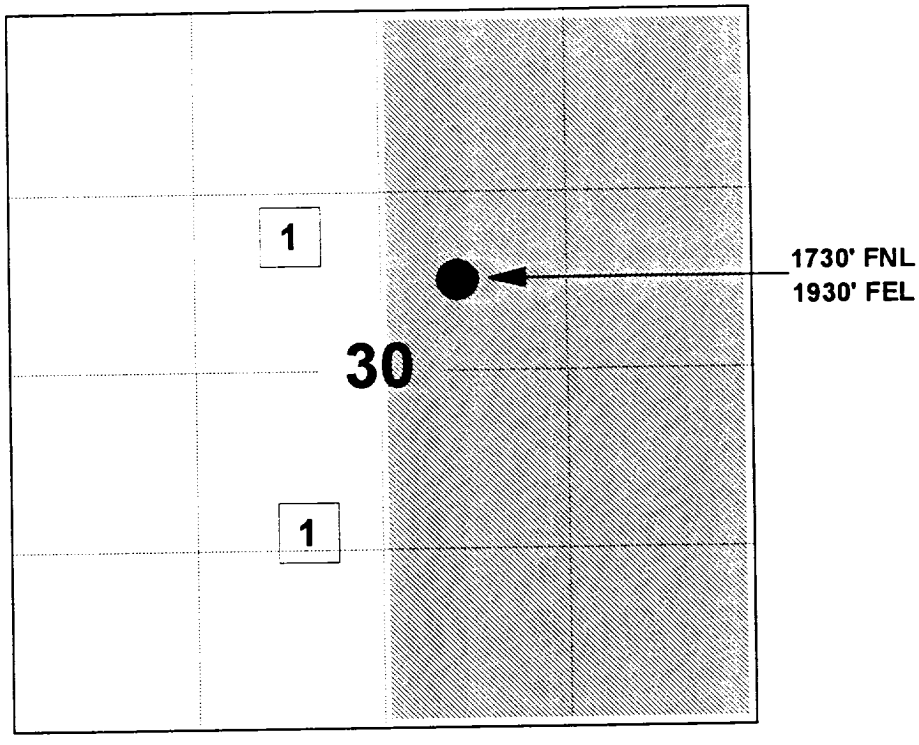
MERIDIAN OIL INC

UTE MTN UTE #41

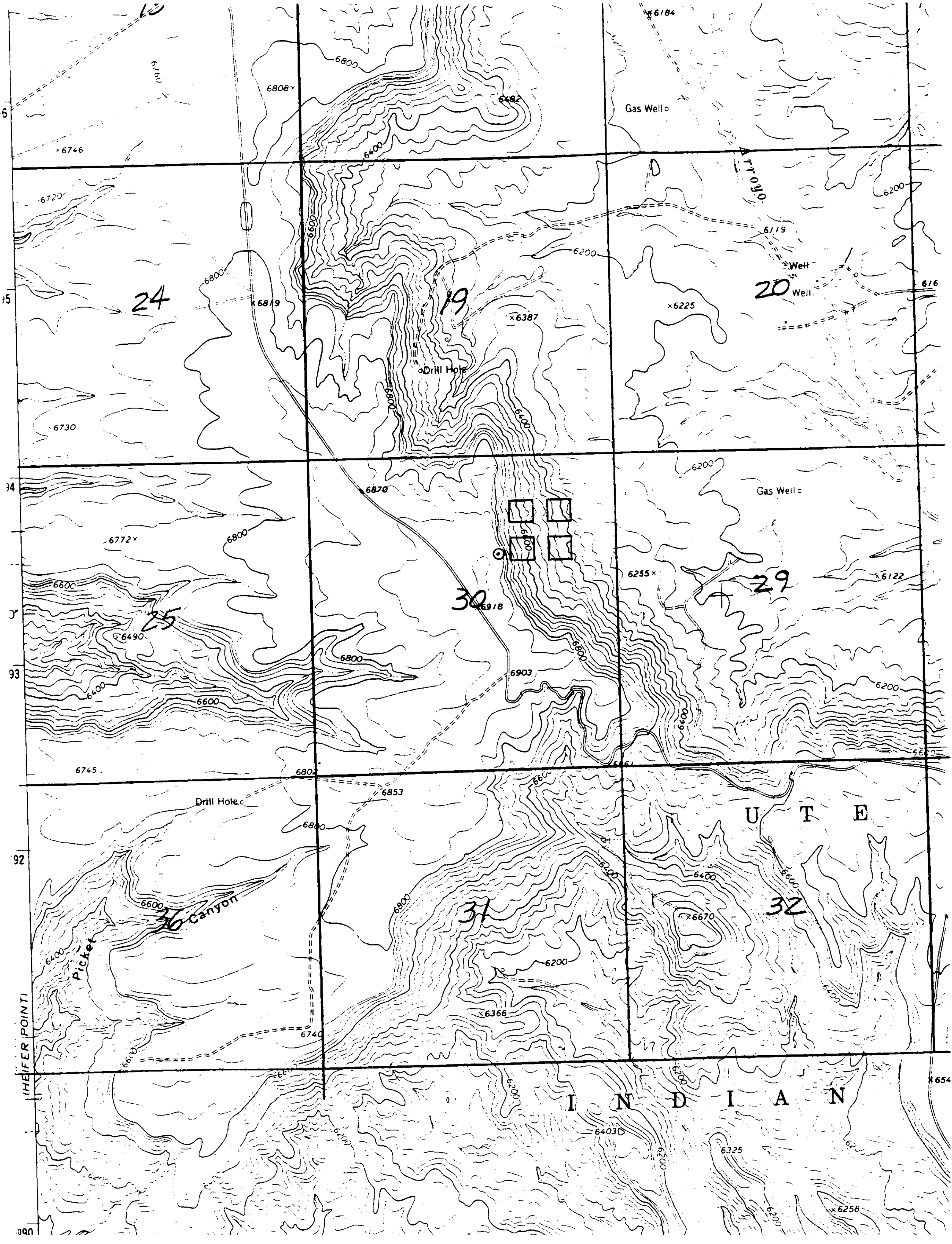
OFFSET OPERATOR \ OWNER PLAT

Unorthodox Barker Dome Desert Creek Formation Well Location

Township 32 North, Range 14 West



1) Meridian Oil Inc.



24
19
20
30
29
25
31
32
36
Gas Well
Gas Well
Drill Hole
Drill Hole
Well
Well
Arroyo
Picket Canyon
U T E
I N D I A N
(HEIFER POINT)
6808
6482
6746
6720
6819
6387
6225
6730
6870
6772
6255
6122
6918
6490
6903
6745
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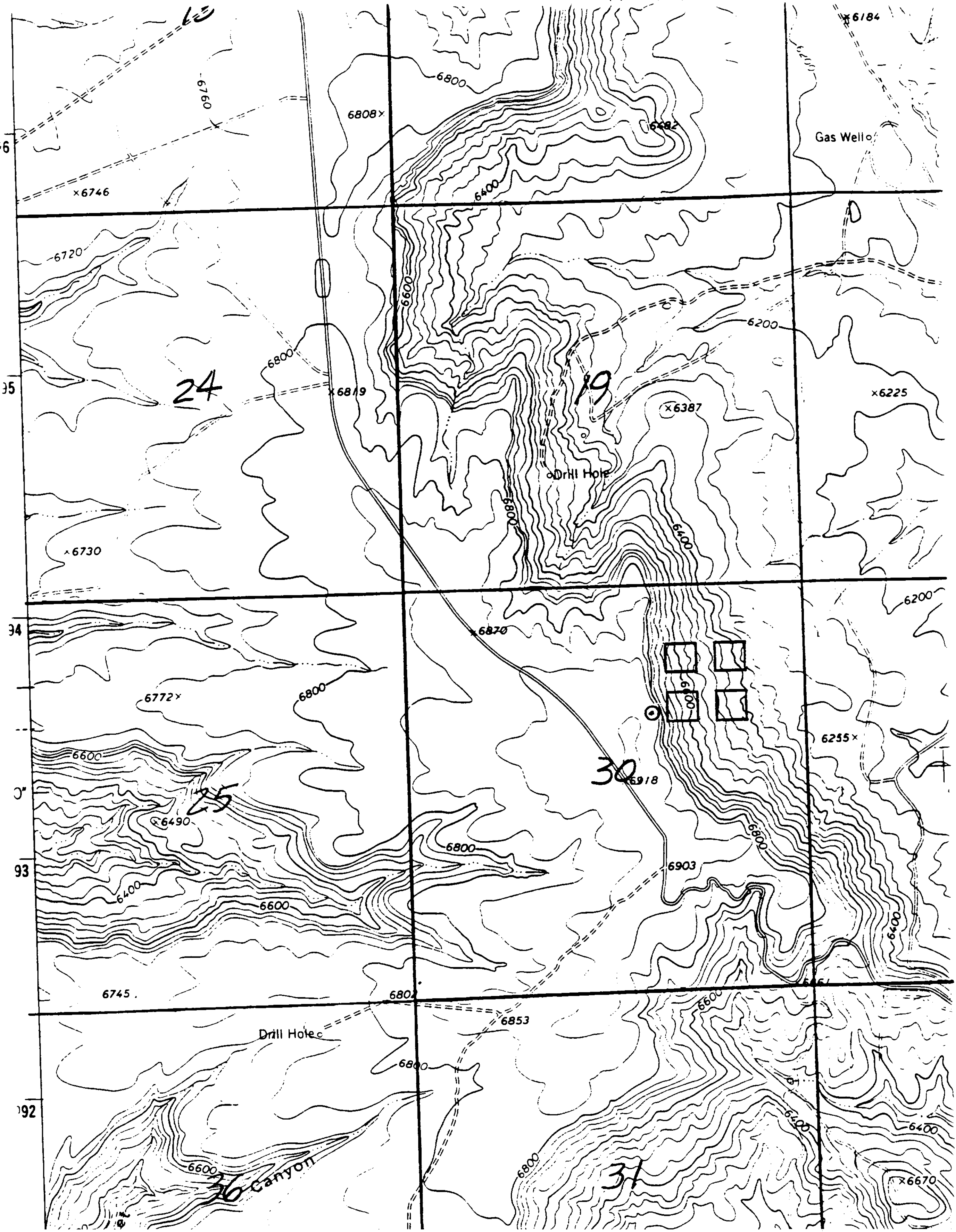
6670
6366
6740
6403
6325
6258
6184
6119



6184
6800
6760
6808
6482
Gas Well
6746
6400
6720
6600
6200
6800
24
6819
19
6387
6225
Drill Hole
6730
6870
6772
6255
30
6918
25
6490
6903
6745
6802
6853
Drill Hole
36
Canyon
31
6670
95
94
93
92