

9



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 S. PACHECO  
SANTA FE, NEW MEXICO 87505  
(505) 827-7131

December 3, 1996

RECEIVED  
DEC - 5 1996

OIL CON. DIV.  
DEC 3

**Burlington Resources Oil & Gas Company**  
**P.O. Box 4289**  
**Farmington, NM 87499-4289**  
**Attention: Peggy Bradfield**

*Administrative Order NSL-3741*

Dear Ms. Bradfield:

Reference is made to your application date November 11, 1996 for an unorthodox coal gas well location for the proposed Kah Des Pah Well No. 500 to be drilled 1130 feet from the South line and 2105 feet from the West line (Unit N) of Section 18, Township 26 North, Range 8 West, NMPM, Basin Fruitland Coal (Gas) Pool, San Juan County, New Mexico. Lots 1, 2, 3, and 4 and the E/2 W/2 of said Section 18 shall be dedicated to said well to form a standard 320.28-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of the "*Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool*", as promulgated by Division Order No. R-8768, as amended, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,

William J. LeMay  
Director

WJL/MES/kv

cc: Oil Conservation Division - Aztec  
U.S. Bureau of Land Management - Farmington

**Ernie Busch**

---

**To:** Mike Stogner  
**Subject:** BURLINGTON RESOURCES KAH DES PAH #500 (NSL)  
**Importance:** High

KAH DES PAH #500  
1130' FSL; 2105' FWL  
N-18-26N-08W  
RECOMMEND: APPROVAL



# BURLINGTON RESOURCES

SAN JUAN DIVISION  
November 11, 1996

Sent Federal Express

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

RECEIVED  
NOV 13 1996  
OIL CON. DIV  
DIST. 3

Re: Kah Des Pah #500  
1130'FSL, 2105'FWL Section 18, T-26-N, R-8-W, San Juan County, New Mexico  
API # 30-045-(not yet assigned)

Dear Mr. LeMay:

Burlington Resources is applying for administrative approval of a non-standard location for the above location in the Basin Fruitland Coal formation. This application for the referenced location is due to topography of a wash, terrain and archaeology.

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

A copy of this application is being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, and return one copy to this office. In accordance with Rule 1207 A.5, all parties should be advised that if they have an objection, it must be filed in writing within twenty days from this date.

We appreciate your earliest consideration of this application.

Sincerely,



Peggy Bradfield  
Regulatory/Compliance Representative  
encs.

### WAIVER

\_\_\_\_\_ hereby waives objection to Burlington Resources' application for a non-standard location for their Kah Des Pah #500 as proposed above.

By: \_\_\_\_\_ Date: \_\_\_\_\_

xc: Conoco

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	<b>RECEIVED</b> NOV 13 1996 <b>OIL CON. DIV.</b> DIST. 8	5. Lease Number 14-20-603-771 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe Navajo
2. Operator <b>BURLINGTON RESOURCES</b> Oil & Gas Company		7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700		8. Farm or Lease Name Kah Des Pah 9. Well Number 500
4. Location of Well 1130' FSL, 2105' FWL  Latitude 36° 29.0, Longitude 107° 43.5		10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec 18, T-26-N, R-8-W API # 30-045-
14. Distance in Miles from Nearest Town 7.5 miles to Huerfano Trading Post	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1130'		
16. Acres in Lease	17. Acres Assigned to Well 320.28 W/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 300'		
19. Proposed Depth 2050'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6204' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u><i>John Bradford</i></u> (Regulatory/Compliance Administrator)	<u>10-30-96</u> Date	

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

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

Archaeological Report to be submitted by Arboles Contract Archaeology  
Threatened and Endangered Species Report submitted by Ecosphere dated May 1996  
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, Arcoma, NM 88211-0719  
 District III  
 1000 Rio Hrasco 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, 1990  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 7216	Property Name Kah Des Pah		Well Number 500
OGRID No. 14538	Operator Name MERIDIAN OIL INC.		Elevation 6204'

10 Surface Location

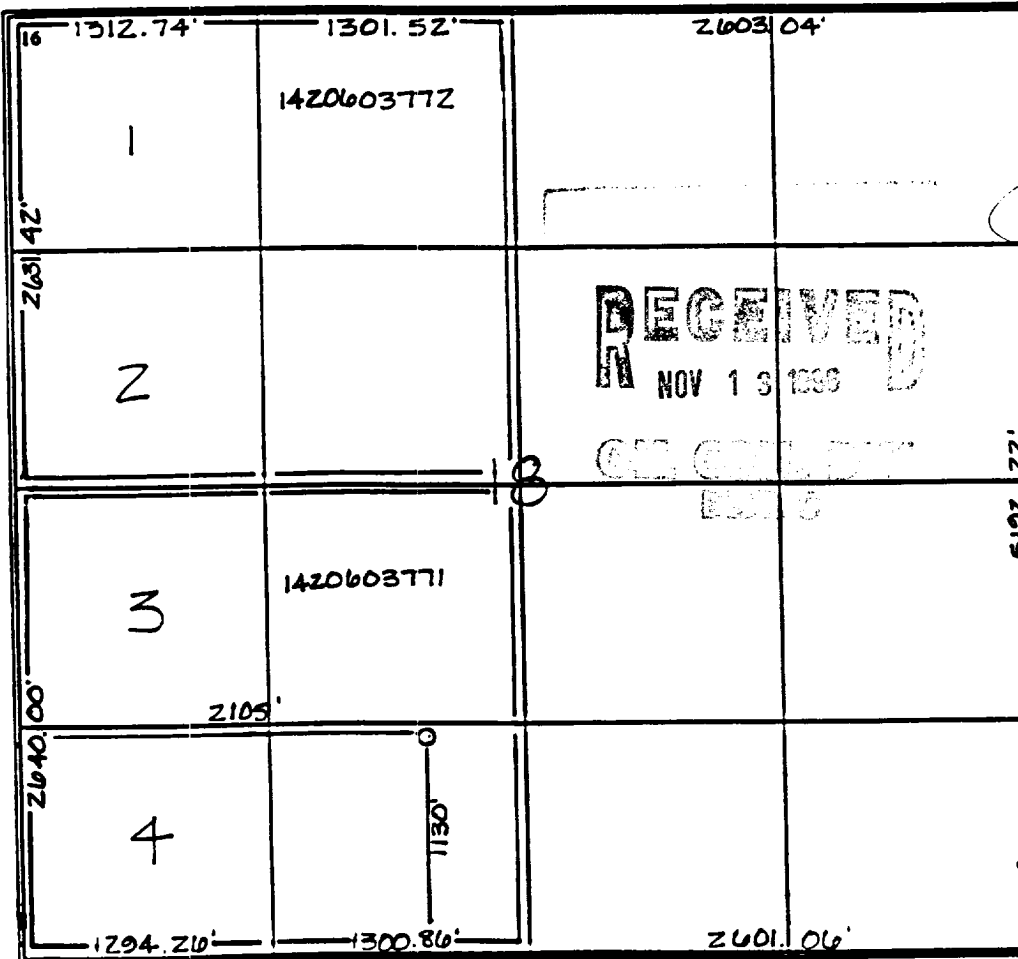
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	18	26 N	8 W		1130	South	2105	West	S.J.

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres W/320.28	13 Joint or Infill	14 Consolidation Code	15 Order No.
--------------------------------	--------------------	-----------------------	--------------

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



17 OPERATOR CERTIFICATE  
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
 Signature: *Peggy Bradfield*  
 Printed Name: Peggy Bradfield  
 Title: Regulatory Administrator  
 Date: 6-10-96

18 SURVEYOR CERTIFICATE  
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.  
 Date of Survey: 5-02-96  
 Signature and Seal: *RENE C. EDWARDS*  
 Seal: RENE C. EDWARDS, REG. SURVEYOR, 8857  
 Certificate Number: 8857

OPERATIONS PLAN

**Well Name:** Kah Des Pah #500  
**Location:** 1130' FSL, 2105' FWL Section 18, T-26-N, R-8-W  
 San Juan County, New Mexico  
 Latitude 36° 29.0, Longitude 107° 43.5  
**Formation:** Basin Fruitland Coal  
**Elevation:** 6204' GL

<b>Formation:</b>	<b>Top</b>	<b>Bottom</b>	<b>Contents</b>
Surface	Nacimiento	1203'	
Ojo Alamo	1203'	1260'	aquifer
Kirtland	1260'	1631'	
Fruitland	1631'	1918'	
Fruitland Coal	1782'	1910'	
Pictured Cliffs	1918'		
Total Depth	2050'		

**Logging Program:** Mud logs: 1600' to TD  
 Hi Res/ND; DNL; Micro/GR: 1600-TD

**Mud Program:**

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 120'	Spud	8.4-8.9	40-50	no control
120-2050'	LSND	8.4-9.0	40-60	no control

**Casing Program:**

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0 - 120'	8 5/8"	24.0#	H-40
7 7/8"	0 - 2050'	4 1/2"	10.5#	K-55

**Tubing Program:**

0 - 2050'	2 3/8"	4.7#	J-55
-----------	--------	------	------

**Float Equipment:** 8 5/8" surface casing - saw tooth guide shoe.  
 Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two centralizers run every 3rd joint to the base of the Ojo Alamo @ 1260'. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 1260'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

**Wellhead Equipment:** 8 5/8" x 4 1/2" x 2 3/8" x 11" 2000 psi screw on independent wellhead.

June 12, 1996

**Cementing:**

8 5/8" surface casing - cement with 129 sx Class "B" cement with 1/4# flocele/sx and 3 3/4 calcium chloride (149 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi/30 minutes.

4 1/2" production casing - Lead w/378 sx of 65/35 Class "B" Poz w/6 3/4 gel, 2% calcium chloride, and 1/4# flocele/sx. Tail w/100 sx Class "B" w/2% calcium chloride (817 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a CBL will be run during completion to determine TOC.

**BOP and tests:**

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600 psi/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams and casing to 2000 psi/15 min.


From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

**Additional information:**

- \* The Fruitland Coal formation will be completed.
- \* Anticipated pore pressure for the Fruitland is 300 psi.
- \* This gas is dedicated.
- \* The west half of the section is dedicated to this well.
- \* New casing will be utilized.
- \* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.

  
\_\_\_\_\_  
Drilling Engineer

  
\_\_\_\_\_  
Date



# ***BURLINGTON RESOURCES***

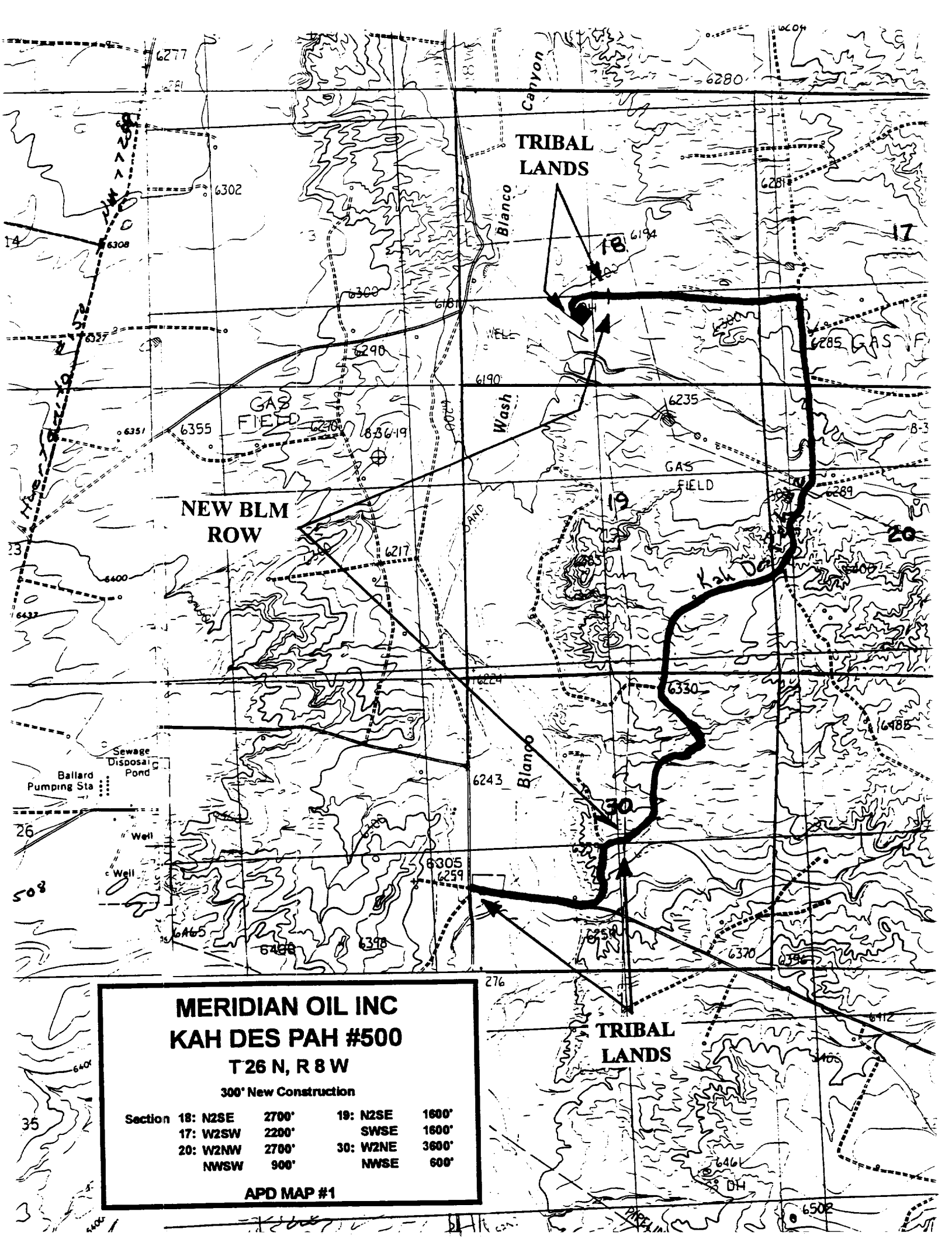
## **Kah Des Pah #500 Multi-Point Surface Use Plan**

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 Land Management 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 300' 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 Huerfano Unit Water Well #1 located SE Section 13, T-26-N,R-10-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 - Bureau of Land Management
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 - Burlington Resources Oil & Gas Company 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 Burlington Resources Oil and Gas Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Regulatory/Compliance Administrator      Date 9/3/96

pb



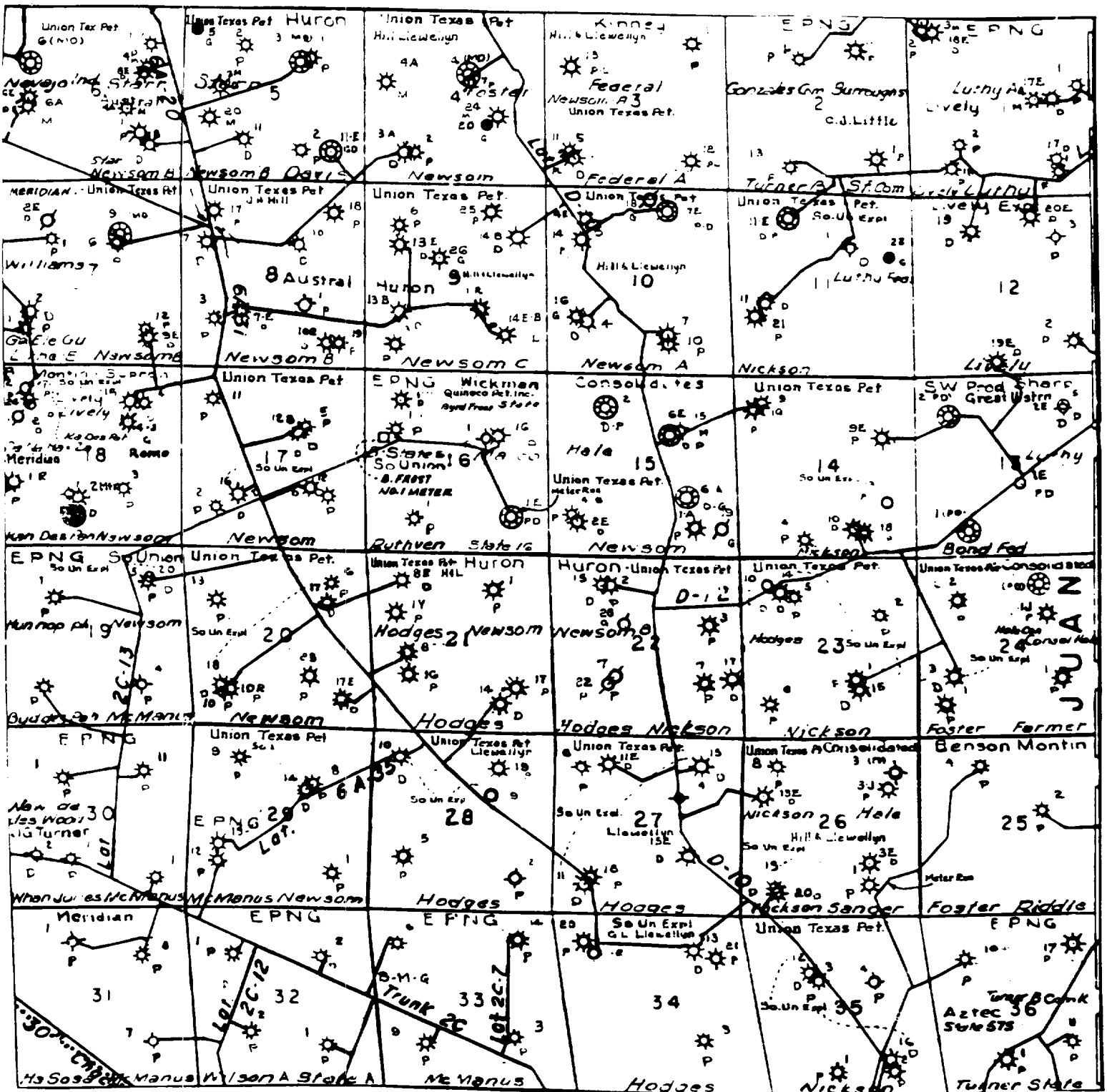
**MERIDIAN OIL INC  
KAH DES PAH #500**

**T26 N, R 8 W**

**300' New Construction**

Section 18:	N2SE	2700'	19: N2SE	1600'
17:	W2SW	2200'	SWSE	1600'
20:	W2NW	2700'	30: W2NE	3600'
	NWSW	900'	NWSE	600'

**APD MAP #1**



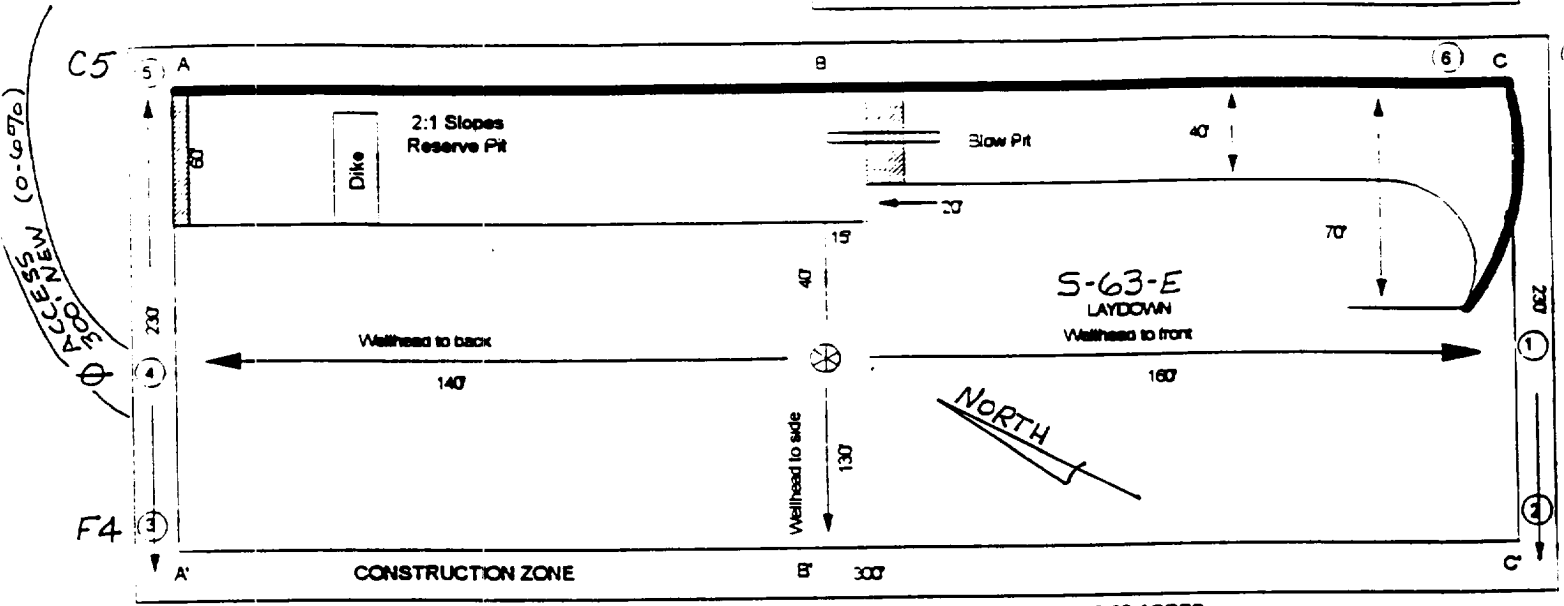
MERIDIAN OIL INC.  
 Pipeline Map  
 T-26-N, R-08-W  
 Rio Arriba County, New Mexico  
 KAH DES PAH #500  
 MAP #1A

TERMINAL

PLAT #1

PC/FC LOW POTENTIAL

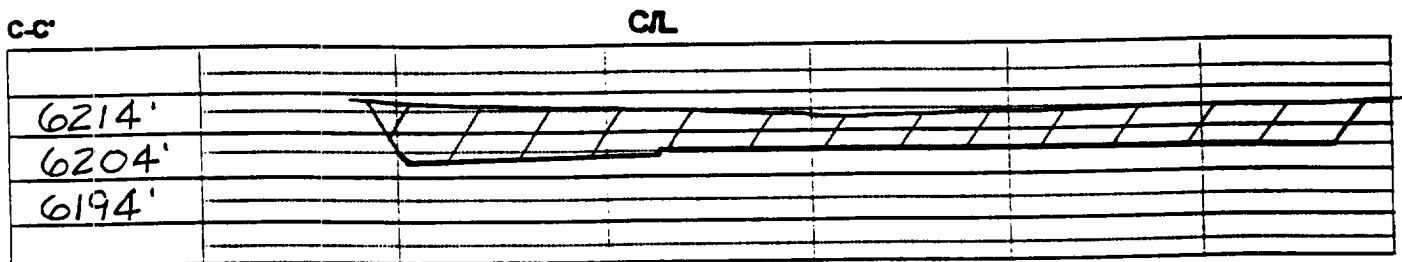
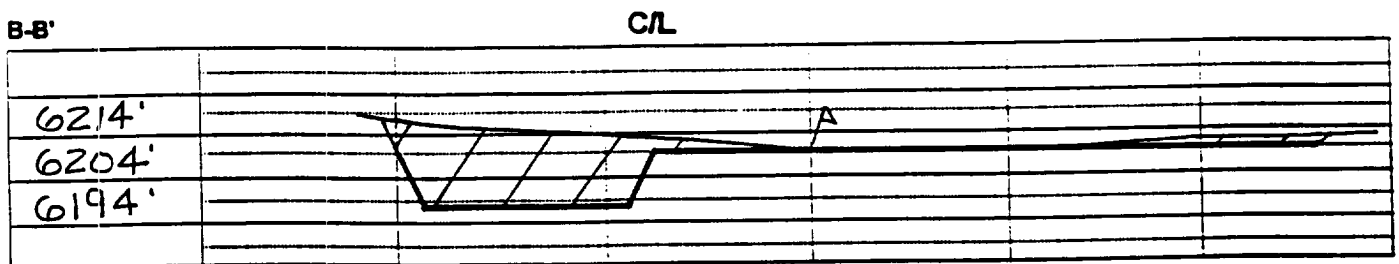
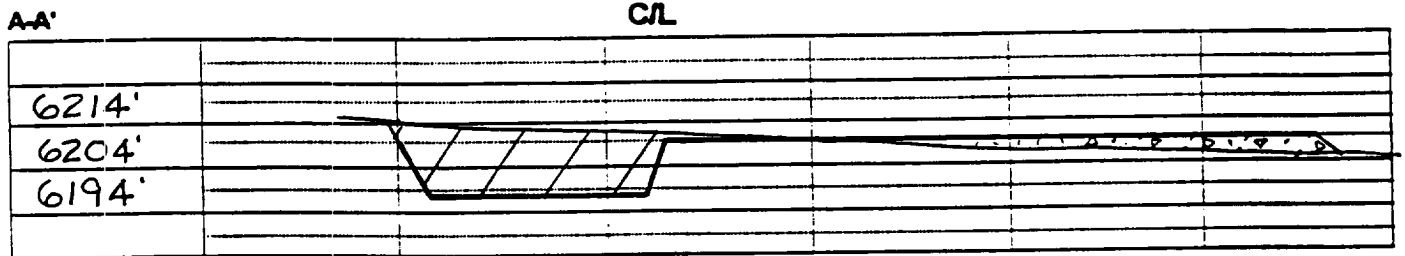
NAME: KA DES PAH #500  
 FOOTAGE: 1130' FSL 2105' FWL  
 SEC 18 TWN 26 N.R. 8 W NMPM  
 CO: SAN JUAN ST: NEW MEXICO  
 ELEVATION: 6204' DATE: 5-2-96



230' x 300' (330' x 400') = 3.03 ACRES

Reserve Pit Dike : to be 6' above Deep side; ( overflow - 3' wide and 1' above shallow side.)

Blow Pit : overflow pipe halfway between top and bottom and extend over plastic liner and into blow pit.



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.

CULTURAL RESOURCES COMPLIANCE FORM  
HISTORIC PRESERVATION DEPARTMENT  
PO BOX 4950  
WINDOW ROCK, ARIZONA 86515

ROUTING: COPIES TO  
NM SHPO  
XX REAL PROPERTY MGT/330  
XX ACA

NNHPD NO. HPD-96-390  
OTHER PROJECT NO. \_\_\_\_\_

PROJECT TITLE: Cultural Resources Inventory of the Proposed Kah Des Pah #500 Well Pad 1130' FSL, 2105' FWL T26N, R8W, Section 18 San Juan County, New Mexico.

LEAD AGENCY: BIA/NAO

SPONSOR: Meridian Oil, Inc. 3535 E. 30th, Farmington, New Mexico 87499

PROJECT DESCRIPTION: The proposed undertaking will involve the construction of a oil well pad and pit. Ground disturbance will be intensive and extensive (Note: This consultation does not include access roads or pipelines).

LAND STATUS: Allotment Land  
CHAPTER: Huerfano  
LOCATION: T26N, R8W, Section 18, San Juan County, New Mexico

PROJECT ARCHAEOLOGIST: Summer McKean  
NAVAJO ANTIQUITIES PERMIT NO.: B9664

DATE INSPECTED: May 22 and June 11, 1996  
DATE OF REPORT: June 11, 1996  
TOTAL ACREAGE INSPECTED: 7.3 acres

METHOD OF INVESTIGATION: Class III pedestrian inventory with transects spaced 7-10 m apart

LIST OF CULTURAL RESOURCES FOUND: None  
LIST OF ELIGIBLE PROPERTIES: None  
LIST OF NON-ELIGIBLE PROPERTIES: None  
LIST OF ARCHAEOLOGICAL RESOURCES: None

EFFECT/CONDITIONS OF COMPLIANCE: No properties were located for the well pad. Additional inventory will be required for any access roads and pipelines. Pursuant to 36 CFR 800.4(d), a copy of this form and the report has been provided to the SHPO notifying them that no properties were found.

In the event of a discovery ["discovery" means any previously unidentified or incorrectly identified cultural resources including but not limited to archaeological deposits, human remains, or locations reportedly associated with Native American religious/traditional beliefs or practices], all operations in the immediate vicinity of the discovery must cease and the Navajo Nation Historic Preservation Department must be notified at (520) 871-7132.

FORM PREPARED BY: Rolf J. Nabahe  
FINALIZED: July 30, 1996

Notification to  
Proceed Recommended:  
Conditions:

Yes XX No \_\_\_\_\_  
Yes \_\_\_\_\_ No XX Alan S. Downer  
Navajo Nation Historic Preservation Officer  
Date 8/1/96

Agency Approval:

Yes P No \_\_\_\_\_  
Area Director Melvin Rousseau Date 8/2/96

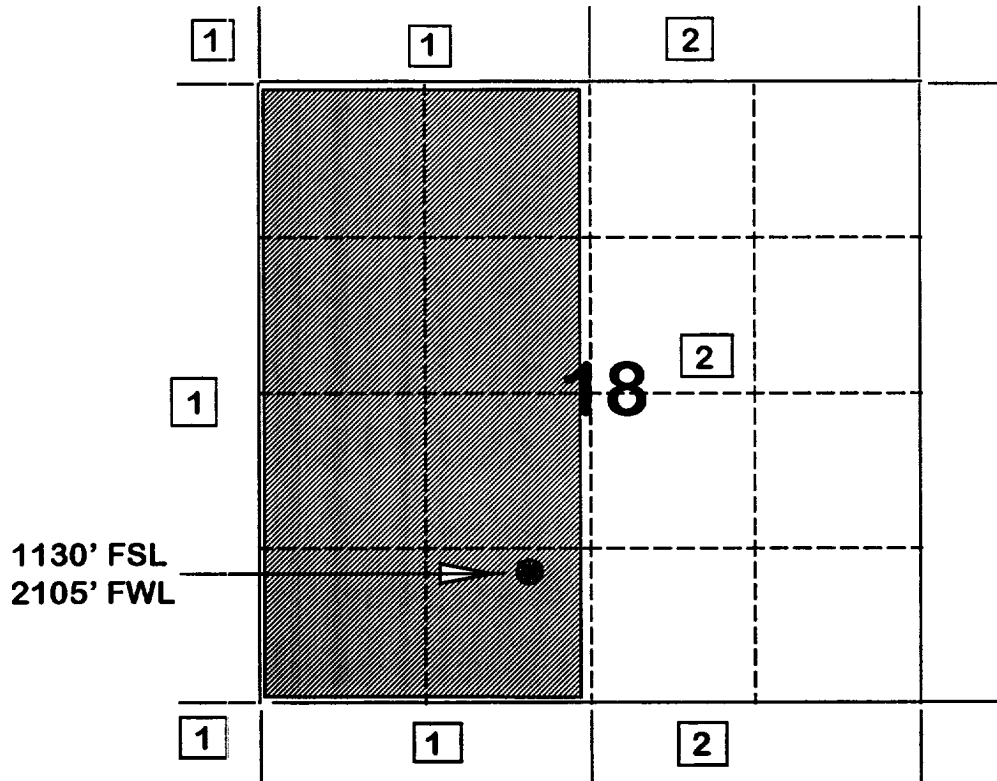
*BURLINGTON RESOURCES OIL AND GAS COMPANY*

# Kah Des Pah #500

OFFSET OPERATOR \ OWNER PLAT  
Nonstandard Location

Fruitland Coal Formation Well

Township 26 North, Range 8 West




- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Conoco Inc.  
10 Desta Drive, Suite 100W  
Midland, TX 79705-4500

Re: Kah Des Pah #500  
1130'FSL, 2105'FWL Section 18, T-26-N, R-8-W, San Juan County, New Mexico  
API # 30-045-(not yet assigned)

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

Conoco Inc.  
10 Desta Drive, Suite 100W  
Midland, TX 79705-4500

A handwritten signature in black ink, appearing to read "Peggy Bradfield". The signature is written in a cursive style with a large initial "P".

Peggy Bradfield  
Regulatory/Compliance Administrator



