Form 3160-3 (September 2001)

OCD-ARTESIA

RECEIVED

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

F-06-27

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

MAY 0 4 2006

5. Lease Serial No.

NM	96850

BUREAU OF LAND MANAGEMENT	ULU-MATEOM
PPLICATION FOR PERMIT TO DRILL OR REENTE	R

6. If Indian, Allottee or Tribe Name

			<u> </u>				
la. Type of Work: DRILL REENTER	₹				7. If Unit or CA Agre	eement, N	ame and No.
1b. Type of Well: Oil Well Gas Well Other 2. Name of Operator	☑ s	ingle Zone	Multi	iple Zone	8. Lease Name and W Pudge Federal #1	ell No.	₹356 ³
•		يا, /_	1040	· ·	9. API Well No.	345	\$ 7 <i>L</i>
Marbob Energy Corporation 3a. Address	3b. Phone No	(include a	rea code)	-	10. Field and Pool, or		
P.O. Box 227, Artesia, NM 88211-0227	505-748-33		rea coue,	Unde			elaware
4. Location of Well (Report location clearly and in accordance with a				O M C C	11. Sec., T., R., M., or	Blk and	Survey or Area
•	ny state requi	(rements.)	8	OBO			
At surface 660' FSL & 910' FEL				•			
At proposed prod. zone					Sec. 6, T26S - R29I	<u> </u>	
14. Distance in miles and direction from nearest town or post office*					12. County or Parish		13. State
					Eddy		NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of A	Acres in leas	e		g Unit dedicated to this	well	
	10.5	ID d		40	NA P. IN CI		
18. Distance from proposed location* to nearest well, drilling, completed,	19. Propose	ed Depth		20. BLM/F	BIA Bond No. on file		
applied for, on this lease, ft.	9300			NM 2056			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		imate date v	work will s		23. Estimated duration	n	···
2918'	April 10, 2	006			21 Days		
	24. Atta	chments					
The following, completed in accordance with the requirements of Onshor	re Oil and Gas	Order No.1.	, shall be at	tached to this	s form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	Lands, the	Item 5. Opera 6. Such	20 above). tor certific	cation. specific info	s unless covered by an		,
25. Signature	Name	(Printed/Ty	ped)			Date	
1 January Asyptiche	Nanc	y Bratche	<u> </u>			3/10/06	
Title 5							
Land Department							
Approved by (Signature) /5/ James Stovall	Name	(Printed Ty	^(ped) Jar	nes Sto	vall	^D A'PR	2 6 2006
FIELD MANAGER	Offic	CA			LD OFFICE	÷	
Application approval does not warrant or certify that the applicant holds I	egal or equita	ble title to th	nce rights i	in the subject	lease which would entit	e the anni	licant to conduct

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MISSE WOOD Extended Englished

*(Instructions on reverse)

Conditions of approval, if any, are attached.

operations thereon.

Witness Surface Casing

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

☐ AMENDED REPORT

DISTRICT II

DISTRICT IV

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. ST. FRANCIS DR., SANTA FR. NM 87505 API Number

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Property Code Property Name PUDGE FEDERAL OGRID No. Operator Name MARBOB ENERGY CORPORATION Surface Location Operator Name Surface Location		
OGRID No. 14049 MARBOB ENERGY CORPORATION 2918' Surface Location		
14049 MARBOB ENERGY CORPORATION 2918' Surface Location	Pleastion	
Surface Location		
UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the Bast/West line Coun	ıty	
P 6 26-S 29-E 660 SOUTH 910 EAST EDI	DY	
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 Coun	aty	
Dedicated Acres Joint or Infill Consolidation Code 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		
LOT 1 OPERATOR CERTIFICATION	$\overline{}$	
I hereby certify that the information	ا م	
herein is true and complete to the best of my knowledge and belief, and that this	of	
organization either owns a working interes or unlessed mineral interest in the land		
including the proposed bottom hole location are a right to drill this well at this	ion	
location pursuant to a contract with an owner of such mineral or working interest or to a voluntary pooling agreement or a	14.	
compulsory pooling agreement or a	red	
LOT 2		
Janey TExatcher 3-10-	-06	
Signature Date Nancy T. Bratcher		
GEODETIC COORDINATES Name	-	
NAD 27 NME		
Y=387901.5 N SURVEYOR CERTIFICATION		
LOT 3 X=597857.6 E	ion	
IAT = 32°0.3'57 83" N 2908.2' 2900.0' shown on this plat was plotted from field notes of actual surveys made by me or	1	
LONG. = 104°01'02.76" W 600' under my supervision, and that the same true and correct to the best of my belief.	is C	
000 0		
DETAIL 2016 4: FEBRUAY 24, 2006		
2899.3' 2916.4' PEBROAI 24, 2006 Date Surveyed DSI	R	
Signature & Seal of		
Professional Surveyor		
SEE DETAIL Davy & layon 2/28/06	,	
06.11/0219		
Certificate No. GARY EDISON 120	641	
I W T W N N N N N N N N N N N N N N N N N		

MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

Pudge Federal #1 660' FSL & 910' FEL, Unit P Section 6, T26S, R29E Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Marbob Energy Corporation submits the following ten items of pertinent information in accordance with BLM requirements.

- 1. The geological surface formation is Permian.
- 2. The estimated tops of geologic markers are as follows:

Top Salt	950'	Bone Springs	6505'
Bottom Salt	2539'	TD	9300'
Delaware	2729′		

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Top Salt	950′	Oil
Bone Springs	6505'	Oil

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at 500' and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across them by inserting a float shoe joint into the 5 1/2" production casing which will be run at TD to sufficiently cover all known oil and gas horizons 500' above.

4. Proposed Casing Program:

Hole Size	Interval	OD Casing	Wt	Grade	
17 1/2"	0-500′	13 3/8"	48#	H-40	Sal Milling
12 1/4"	500-2700'	8 5/8"	29#	J-55	
7 7/8"	2700-9300'	5 1/2"	17#	J-55	

Proposed Cement Program:

17 1/2" Surface Casing: Cement w/ 5

Cement w/ 500 sx. Circulate to surface.

12 1/4" Intermediate Casing: Cement w/ 600 sx. Circulate to surface.

7 7/8" Production Casing: Cement w/450 sx. 500' above all oil & gas zones.

5. Pressure Control Equipment:

See Exhibit #1. Marbob proposes to nipple up on the 13 3/8" casing with a 2M system, testing it to 1000# with rig pumps, then nipple up on the 8 5/8" casing with a 5M system, tested to 5000# before drilling out.

6. Mud Program: The applicable depths and properties of this system are as follows:

		Weight	Viscosity	Waterloss
 Depth	Type	(ppg)	(sec)	(cc)
0 - 500'	Fresh Water	8.5	28	N.C.
500-2700'	Brine	9.8-10.2	40-45	N.C.
2700-9300'	Cut Brine	8.6-9.4	28-36	N.C.

- 7. Auxiliary Equipment: Kelly Cock; Sub with full opening valve on floor; and drill pipe connections.
- 8. Testing, Logging and Coring Program:

No drillstem tests are anticipated.

The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Density Dual Spaced Neutron Csng Log, and Depth Control Log. No conventional coring is anticipated.

- 9. No abnormal pressures or temperatures are anticipated.
- 10. Anticipated starting date: As soon as possible after approval.

MARBOB ENERGY CORPORATION MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Pudge Federal #1 660' FSL & 910' FEL, Unit P Section 6, T26S, R29E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effect associated with the operations.

1. EXISTING ROADS:

Exhibit 2 is a portion of a topo map showing the well and roads in the vicinity of the proposed location. The proposed wellsite and the access route to the location are indicated in red on Exhibit 2.

DIRECTIONS:

From the intersection of U.S. Highway # 285 and Eddy County Rd. #725, go east-northeast along Eddy County Rd. 725 approx. 3.0 miles. (Past the EPNG Plant) through a cattle guard to a proposed road survey and two track road on the left. Follow road survey along two track road west-northwest approx. 0.21 miles to this location.

2. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Marbob Energy Corporation proposes a collection facility, if well is productive, to be located on Pudge Federal #1 well pad.

3. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the lined pit.
- B. Drilling fluids will be allowed to evaporate in the lined pit until the pit is dry.
- C. Water produced during completion may be disposed into the lined reserve pit.
- D. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained to prevent scattering by the wind.

4. WELLSITE LAYOUT:

A. Exhibit 3 shows the relative location and dimensions of the well pad, the pit.

B. The reserve pit will be lined with high quality plastic sheeting.

5. PLANS FOR RESTORATION:

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing a condition as possible.
- B. Reserve pit will be fenced until they have dried and been leveled.
- C. All rehabitation and/or vegetation requirements of the BLM will be complied with and will be accomplished as expeditiously as possible. All pits will be filled level within 90 days after abandonment.

6. SURFACE OWNERSHIP:

The well site and lease are located on Federal surface

- A. The area around the well site is grassland and the top soil is sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.
- B. A Cultural Resources Examination has been requested and will be forwarded to your office in the near future.

7. OTHER INFORMATION:

A. Topography: Refer to the existing archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.

8. OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Dean Chumbley, Landman Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (505)748-3303 Cell (505)748-5988 B. Through Drilling Operations

Sheryl Baker, Drilling Supervisor Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (505)748-3303 Cell (505)748-5489

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 Marbob Energy Corporation 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.

Dato

Nancy Bratcher Land Department

MARBOB ENERGY CORPORATION

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide (H_2S) .
- B. The proper use and maintenance of personal protective equipment and life support systems.
- C. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- D. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- A. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- B. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- C. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

A. Well Control Equipment:

Flare line.

Choke manifold.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

B. Protective equipment for essential personnel:

Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

C. H₂S detection and monitoring equipment:

2 - portable H₂S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H₂S levels of 20 ppm are reached.

D. Visual warning systems:

Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

E. Mud Program:

The mud program has been designed to minimize the volume of H₂S circulated to the surface.

F. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.

G. Communication:

Company vehicles equipped with cellular telephone and 2-way radio.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH MARBOB FOREMAN AT MAIN OFFICE

MARBOB ENERGY CORPORATION

1-505-748-3303

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Date:

March 10, 2006

Lease #:

Pudge Federal #1

Legal Description: SESE Sec. 6-T26S-R29E

Eddy County, New Mexico

Formation(s): Permian

Bond Coverage: Statewide

BLM Bond File #: NM 2056

Land Department

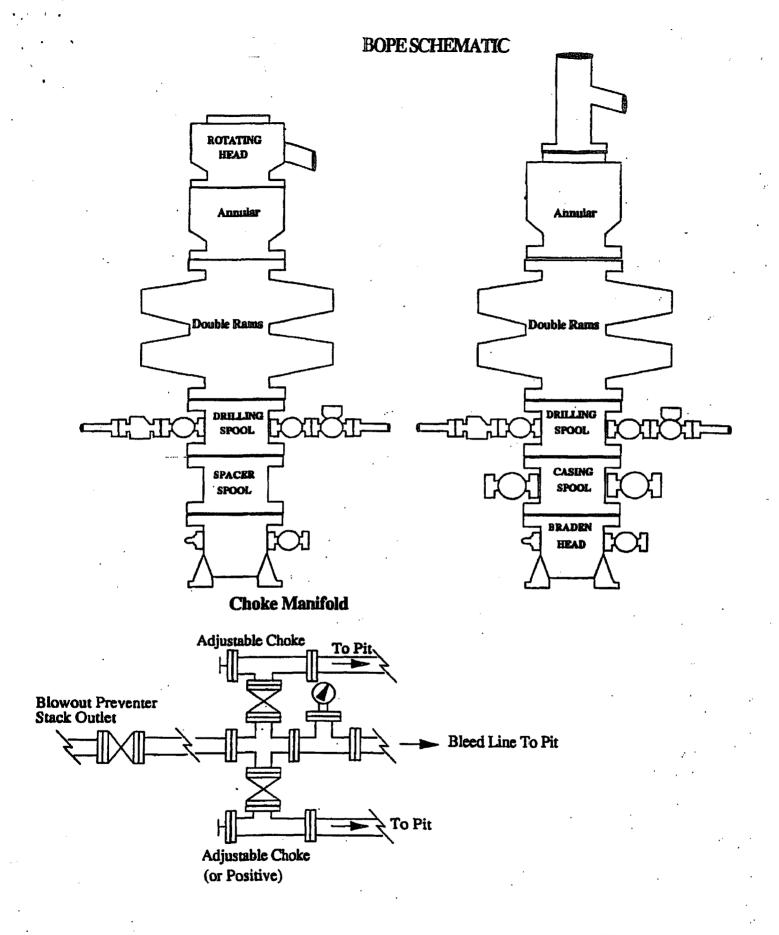
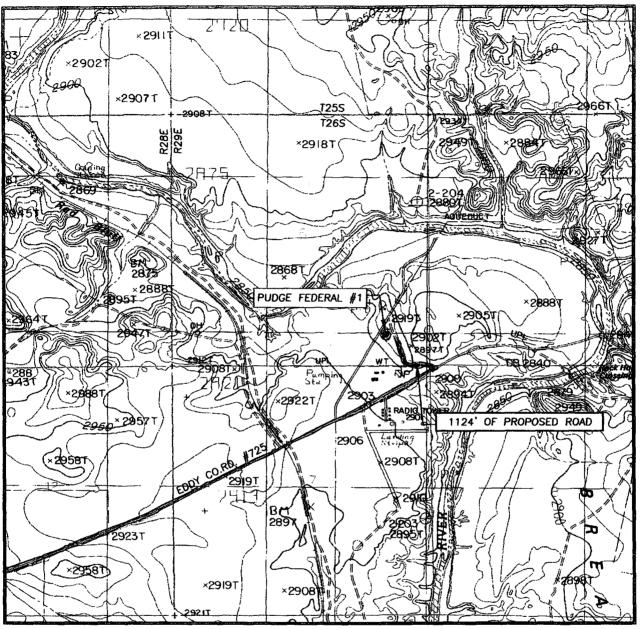


Exhibit One

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 6 TWP. 26-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FSL & 910' FEL

ELEVATION____

2918'

OPERATOR____

MARBOB ENERGY CORPORATION

LEASE PUDGE FEDERAL

U.S.G.S. TOPOGRAPHIC MAP RED BLUFF, N.M.

CONTOUR INTERVAL: RED BLUFF, N.M. - 10'

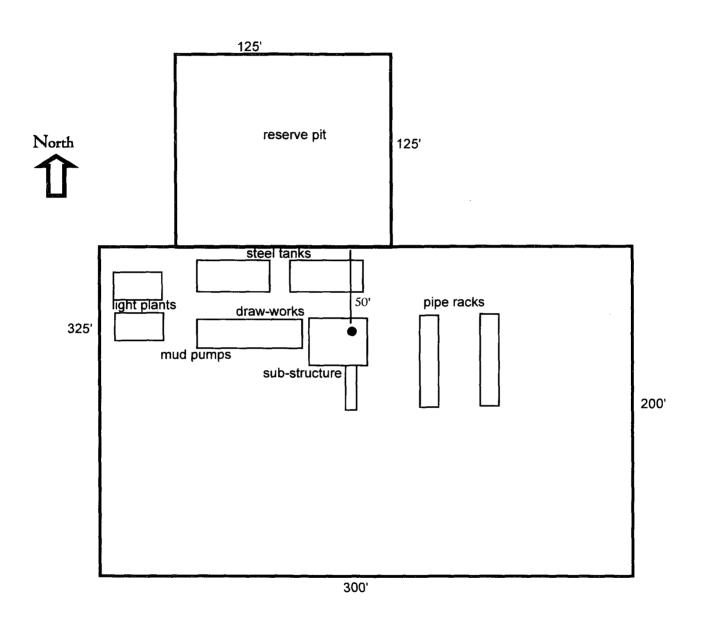
Existing Roads



PROVIDING SURVEYING SERVICES SINCE 1946 JOHN WEST SURVEYING COMPANY 412 N. DAL PASO HOBBS, N.M. 88240 (505) 393-3117

EXHIBIT #2

(Deep)



Pudge Federal #1 660' FSL & 910' FEL Unit P Section 6, T26S, R29E Eddy County, New Mexico