. Form 3160-3 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

ΔΡΙ	E	SUREAU OF LAN		5. LEASE DESIGNATION AND SERIAL N NM-01088		
	PLICATIO	N FOR PER		6. IF INDIAN, ALLOTTEE OR TRIBE NAM		
b. TYPE OF WELL OIL			DEEPEN	SINGLE —	MULTIPLE C	7. UNIT AGREEMENT NAME LUSK DEEP UNIT
2. NAME OF OPERATO	DRILL X DEEPEN ONE ONE ONE ONE ONE ONE ONE		ZONE	8. FARM OR LEASE NAME, WELL NO.		
MARBOB EN	NERGY CORF	PORATION				LUSK DEEP UNIT "A" #19 9. API WELL NO.
	APPLICATION FOR PERMIT TO DRILL OR DEEPEN F WORK DRILL X DEEPEN F WELL GAS WELL GAS WELL GAS F OPERATOR BOB ENERGY CORPORATION SAND TELEPHONE NO. BOX 227, ARTESIA, NM 88210 505-748-3303 IN OF WELL (Report location clearly and in accordance with any State requirements.*) SUBJECT TO LKE APPROVA SAME N CE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* SURFACE USE PLAN CE FROM PROPOSED* OF FROM PROPOSED* OF TO NEAREST OF TO NEAREST OF TO NEAREST OF REST WELL ORILLING, COMPLETED, LEST FOR PROPOSED LOCATION* REST WELL, DRILLING, COMPLETED, LED FROM PROPOSED LOCATION* 19. PROPOSED CASING AND CEMENTIN PROPOSED CASING AND CEMENTIN PROPOSED CASING AND CEMENTIN OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH 12,500' PROPOSED CASING AND CEMENTIN PROPOSED CASING AND CEMENTIN PROPOSED CASING AND CEMENTIN PROPOSED CASING AND CEMENTIN 17.1/2* H-40, 13 3/8" 48# 800' 21/4" J-55, 8 5/8" 24# & 32# 4500' 77/8" S95 & N-80, 5 1/2" 17# 12,500' DNE WILL BE SELECTIVELY STIMULATED AND PERFORATED AS NEEDED FOR HED ARE: 1. WELL LOCATION AND ACREAGE DEDICATION PLAT 2. SURFACE USE PLAN 3. SUPPLEMENTAL DRILLING DATE OF HOLE GRID NO. 17 8 / 7 SENERAL SPECIAL ATTACHE ATTACHE ATTACHE TO THE WILL AND THE TOWN AND ACREAGE DEDICATION PLAT SENERAL SPECIAL ATTACHE TO THE WILL AND THE TOWN AND ACREAGE DEDICATION PLAT SENERAL SPECIAL ATTACHE TO THE WILL AND THE TOWN AND ACREAGE DEDICATION PLAT SENERAL SPECIAL ATTACHE TO THE WILL AND THE TOWN AND ACREAGE DEDICATION PLAT SENERAL TOWN AND THE TOWN AND ACREAGE DEDICATION PLAT SENERAL TOWN AND THE TOWN			30-025-352		
						10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WEL	L (Report location of	learly and in accordance	with any State requirements.*	OID EAT Y	^	LUSK MORROW (GAS)
000 1		L			-	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
	_	\mathcal{N}			TAL	SEC. 17-T19S-R32E
14. DISTANCE IN MILE	S AND DIRECTION	N FROM NEAREST TOV	VN OR POST OFFICE*	BY STATE		12. COUNTY OR PARISH 13. STATE
SEE SURFA	CE USE PLAI	N				LEA NA
			16. N	O. OF ACRES IN LEASE	17. NO. (OF ACRES ASSIGNED
PROPERTY OR LEA	ASE LINE, FT	6	60'	120		HIS WELL 640
18. DISTANCE FROM I	PROPOSED LOCAT	LION,	19. P	ROPOSED DEPTH	20. ROT/	ARY OR CABLE TOOLS
OR APPLIED FOR	L, DRILLING, COMF ON THIS LEASE, F	PLETED, T.	•	12,500'		ROTARY
21. ELEVATIONS (Sho	w whether DF, RT, (GR, etc.)			i	22. APPROX. DATE WORK WILL STAR
3584' GR						11/06/00
23.			PROPOSED CASING A	ND CEMENTIN	Man M	TOTAL I PA MATERIA
SIZE OF HOLE	GRADE	, SIZE OF CASING		- Section - Sect	TERRY CO	QUANTITY OF CEMENT
17 1/2"	H-	40, 13 3/8"	48#			LILATE 450 SX WITHES
12 1/4"						2200 SX
7 7/8"	S-9	5 & N-80, 5 1/2"	17#	12,500'	···	SUFF TO COVER 200' ABOVE ALL KNOWN OIL&GAS HORIZONS
DAY ZONE WIL		TIVELY STIMUL	ATED AND PERFOR			
ATTACHED AR	3. SUPPLEI	E USE PLAN MENTAL DRILLI	ACREAGE DEDICA	ATION PLAT	PROVAE SUR	
ATTACHED AR	3. SUPPLEI	E USE PLAN MENTAL DRILLI	ACREAGE DEDICA	ATION PLAT APR	PROVIL SUR Neral Requ	UEDE TO
ATTACHED AR PER, OGRID (OPERTY NO POL CODE_	3. SUPPLEI	E USE PLAN MENTAL DRILLI	ACREAGE DEDICA	ATION PLAT AN GEI SPE	MOYAL SUR Neral Requ Ecial Stipui	UEDE TO
ATTACHED AR	3. SUPPLEI	E USE PLAN MENTAL DRILLI	ACREAGE DEDICA	ATION PLAT AN GEI SPE	MOYAL SUR Neral Requ Ecial Stipui	UEDE TO
ATTACHED AR PERL CORID OPERTY NO OCL CODE IF. DATE INO. 30	2. SURFAC 3. SUPPLEI NO	E USE PLAN MENTAL DRILLI 0 4 9 1 1 5 9 3 5 2 44	O ACREAGE DEDICA	ATION PLAT SEI SPE	PROVAL SUR NERAL REQU ECIAL STIPUI TACHED	LETT TO THE PARTY OF THE PARTY

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

TITLE

Application approval 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.

DISTRIC - SUPERVISOR -----

0

APPROVAL DATE ___

Assistant Field Manager, Lands And Minerals

DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer BD, Artesia, NM 68211-0719

P.O. Bex 2088, Santa Fe, NM 87504-2088

DISTRICT IV

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	5244	Pool Code 80759	LUSK MORROW	2
Property Code 17817	/		perty Name EEP UNIT "A"	Well Number
OGRID No. 14049			rator Name ERGY CORPORATION	Elevation 3584
		Surfa	ce Location	

Surface Location

-[UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	P-10			_
1	N	17	19 S	32 E		660	SOLITU	Feet from the	East/West line	County	
Ļ	·	L	L		·		300111	1650	WEST	LEA	1

Bottom Hole Location If Different From Surface

						Itom Du	Idic		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	or Infill Co	nsolidation	Code Or	der No.				
640									

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

	OK A NON-STANDARD UNIT	HAS BEEN APPROVED	BY THE DIVISION
			OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
		-	Signature ROBIN COCKRUM
	•		Printed Name PRODUCTION ANALYST Title 10/6/00 Date
			SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my
 		 +	supervisors and that the same is true and correct to the best of my belief. SEPTEMBER 29, 2000 Date Surveyed Signature & Seel of
3585.5 3585.5 7 1650'————————————————————————————————————	-0		Professional Surveyor Penally Entern 102/00 W.O. Nom 00-7 1 194
	nended Pl		Certificate No. ROMALD FIDSON. 3239 GARY G. EIDSON, 12641

DRILLING PROGRAM

Attached to Form 3160-3 Marbob Energy Corporation Lusk Deep Unit "A" No. 19 660' FSL and 1650' FWL Section 17-19S-32E Lea County, New Mexico

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Permian	Surface	Delaware Sd.	4400'
Anhy.	725'	Bone Springs	7010'
Tansill	2285'	Wolfcamp	10,230'
Yates	2410'	Strawn	11,100'
Seven Rivers	2750'	Atoka	11,500'
San Andres	4200'	Morrow	12,050'

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

Yates	2435'	Oil
Bone Spring	7180'	Oil
Strawn	11,198'	Oil
Morrow	12,350'	Gas

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands wil be protected by setting 13 3/8 casing at 800' 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 show joint into the 13 3/8 production casing which will be run at TD.

DRILLING PROGRAM PAGE 2

4. Casing Program:

<u>Hole Size</u>	<u>Interval</u>	OD Casing	Wt, Grade, Jt. Cond, Type
17 1/2	0-800	13 3/8	48# H-40 STC
12 1/4	0-2300	8 5/8	24# J-55 STC
12 1/4	2300-4500	8 5/8	32# J-55 STC
7 7/8	0-1200	5 1/2	17# S-95 LTC
7 7/8	1200-10800	5 1/2	17# N-80 LTC
7 7/8	10800-13000	5 1/2	17# S-95 LTC

Cement Program:

13 3/8 Surface Casing:	Cemented to surface with 450 sx of Class C w/2% cc.
,	Semented to surface with 450 sx of Class C w/2 % (1)

8 5/8 Intermediate Casing: Cemented to surface with 2200 sx of Class C w/2% cc.

5 1/2 Production Casing: Cemented sufficient to cover 200' above all oil and gas

horizons.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ramtype preventer. This unit will by hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. This BOP will be nippled up on the 13 3/8' surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 3500 psi before drilling out of surface casing.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and a 3" choke line will be included in the drilling spool located below the ramtype BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

6. Types and Characterisitcs of the Proposed Mud System:

The well will be drilled to TD with cut brine. The applicable depths and properties of this system are as follows:

DRILLING PROGRAM PAGE 3

<u>Depth</u>	Type	Weight	Viscosity	Waterloss
0-800	Fresh Water (Spud)	8.5	28	N.C.
800-4500 4500- TD	Brine Cut Brine	9.8-10.2 8.6-9.4	40 - 45 28 - 36	N.C. N.C. / 10cc

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

8. Logging, Testing, and Coring Program:

- A. Drill Stem tests will be used as determined during drilling.
- B. The electric logging program will consist of Dual Laterolog Micro SFL, Spectral Desity Dual Spaced Neutron Csng Log, and Depth Control Log.
- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD based on drill shows, and log evaluation, and drill stem test results.

9. Abnormal Conditions, Pressures, Temperatures, and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 150' and estimated bottom hole pressure (BHP) is 4500 psig.

10. Anticipated Starting Date and Duration of Operations:

Location and road work will not begin until approval has been received from the BLM. The anticipated spud date is November 6, 2000. Once commenced, the drilling operation should be finished in approximately 21 days. If the well is productive, an additional 30 to 60 days will be required for completion and testing before a decision is made to install permanent facilities.

Attached to Form 3160-3 Marbob Energy Corporation Lusk Deep Unit "A" No. 19 660' FSL and 1650' FWL Section 17-19S-32E Lea County, New Mexico

1. Existing Roads:

- A. All roads to the location are shown in Exhibit #3. The existing roads are illustrated in red and are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.
- B. Directions to location: From Loco Hills proceed east on U.S. 82 5.6 miles to state road 529. Proceed southeast on NM 529 7.1 miles. Turn south on Lea county road #126 (Maljamar Road) and proceed south 10 miles. Turn east on lease road and proceed .2 miles. Location and access road are on south side of lease road.
- C. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Proposed Access Road:

Exhibit #3 shows a new access road of 73' as needed and will be constructed as follows:

- A. The maximum width of the running surface will be 10'. The road will be crowned and ditched and constructed of 6" of rolled and compacted caliche. Ditches will be at 3:1 slope and 4 feet wide. Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and to be consistent with local drainage patterns. BLM may specify any additions or changes during the onsite inspection.
- B. The average grade will be less than 1%.
- C. No turnouts are planned.

- D. No culverts, cattleguard, gates, low-water crossings, or fence cuts are necessary.
- E. Surfacing material will consist of native caliche. Caliche will be obtained from the nearest BLM-approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.
- F. The proposed access road as shown in Exhibit #3 has been centerline flagged by John West Engineering.

3. Location of Existing Wells:

Exhibit #2 shows all existing wells within a one-half mile radius of this well.

4. Location of Existing and/or Proposed Facilities:

- A. Marbob Energy Corporation will construct facilities on well pad if well is productive.
- B. If the well is productive, power will be obtained from Lea County Electric. Lea County Electric will apply for ROW for their power lines.
- C. If the well is productive, rehabilitation plans are as follows:
 - 1. The reserve pit will be back-filled after the contents of the pit are dry (within 10 months after the well is completed)
 - 2. Topsoil removed from the drill site will be used to recontour the pit area and any unused portions of the drill pad to the original natural level, as nearly as possible, and reseeded as per BLM specifications.

5. Location and Type of Water Supply:

The well will be drilled with a combination brine and fresh water mud system as outlined in the drilling program. The water will be obtained from commercial water stations in the area and hauled to the location by transport truck over the existing and proposed access roads shown in Exhibit #3. If a commercial fresh water source is nearby, fasline may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad and the proposed new access road (approximately 1500 cubic yards) will be obtained from a BLM - approved caliche pit. All roads and pads will be constructed of 6" of rolled and compacted caliche.

7. Methods of Handling Water Disposal:

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in lined working pits. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing, and completion operations. The reserve pit will be an earthen pit, approximately 130' X 130' X 6" deep. The reserve pit will be plastic-lined to minimize loss of drilling fluids and saturation of the ground with brine water.
- C. Water produced from the well during completion may be disposed into the reserve pit.
- D. Garbage and trash produced during drilling or completion operations will be hauled off. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by this operation.
- E. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. No adverse materials will be left on location.

The reserve pit will be completely fenced until it has dried. When the reserve pit is dry enough to breakout and fill, the reserve pit will be leveled and reseeded as per BLM specifications. In the event of a dry hole, the location will be ripped and seeded, as per BLM specifications, and a dry hole marker will remain.

8. Ancilliary Facilities:

No airstrip, campsite, or other facilities will be built as a result of the operations on this well.

9. Well Site Layout:

- A. The drill pad layout, is shown in Exhibit #4. Dimensions of the pad and pits are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection.
- B. The reserve pit will be lined with a high-quality plastic sheeting.

10. Plans for Restoration of the Surface:

A. Upon finishing drilling and/or completion operations, all equipment and other material not needed for operations will be removed.

All trash, garbage, and pit lining will be hauled away in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled within 10 months after abandonment.

- B. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time that the rig is removed, the reserve pit will be fenced on the rig (fourth) side. The fencing will remain in place until the pit area is cleaned up and leveled. No oil will be left on the surface of the fluid in the pit.
- C. Upon completion of the proposed operations, if the well is completed, the reserve pit area will be treated as outlined above within the same prescribed time. Any additional caliche required for facilities will be obtained from a BLM-approved caliche pit. Topsoil removed from the drill site will be used to recontour the pit area to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

The wellsite and lease is 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 oakbrush, sagebrush, yucca, and prickly pear.
- B. There is no permanent or live water in the immediate area.

C. A Cultural Resources Examination has been requested and will be forwarded to your office in the near future.

12. Lessee's and Operator's Respresentative:

The Marbob Energy Corporation representative responsible for assuring compliance with the surface use plan is follows:

Johnny C. Gray Marbob Energy Corporation 324 West Main, Suite 103 Post Office Box 227 Artesia, New Mexico 88211-0227 Phone: 505/748-3303 (office) 505/885-3879 (home)

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 currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and 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 provision of 18 U.S.C. 1001 for the filing of a false statement.

Date: 10-5-2000 Signed: Man Mulley Authorized A

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:

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

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

- 1. The effects of H_2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. 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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S 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. $\underline{H_2}$ S SAFETY EQUIPMENT AND SYSTEMS

Note: All H_2S 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 H_2S .

- 1. Well Control Equipment:
 - A. Flare Line.
 - B. Choke manifold.
 - C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - D. Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.
- 2. Protective equipment for essential personnel:
 - A. Mark II Surviveair 30-minute units located in the dog house and at briefing areas, as indicated on well site diagram.
- 3. H₂S detection and monitoring equipment:
 - A. 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.
- 4. Visual warning systems:
 - A. Wind direction indicators as shown on well site diagram.
 - B. 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.
- 5. Mud Program:

- A. The mud program has been designed to minimize the volume of H₂S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.
- B. A mud-gas separator will be utilized.

6. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communications at field office.

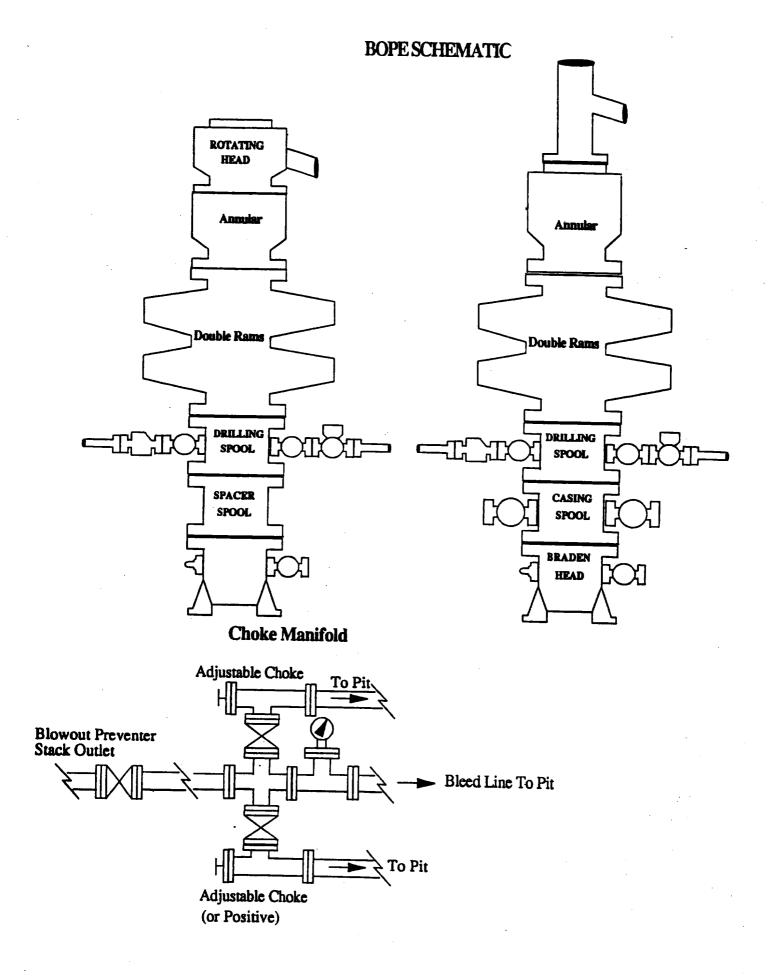
WARNING

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

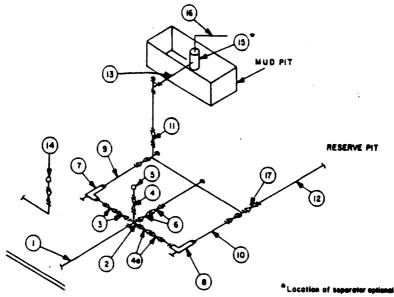
MARBOB ENERGY CORPORATION

1-505-748-3303



MINIMUM CHOKE MANIFOLD 3,000, 5,000 and 10,000 PSI Working Pressure

3 MWP - 5 MWP - 10 MWP



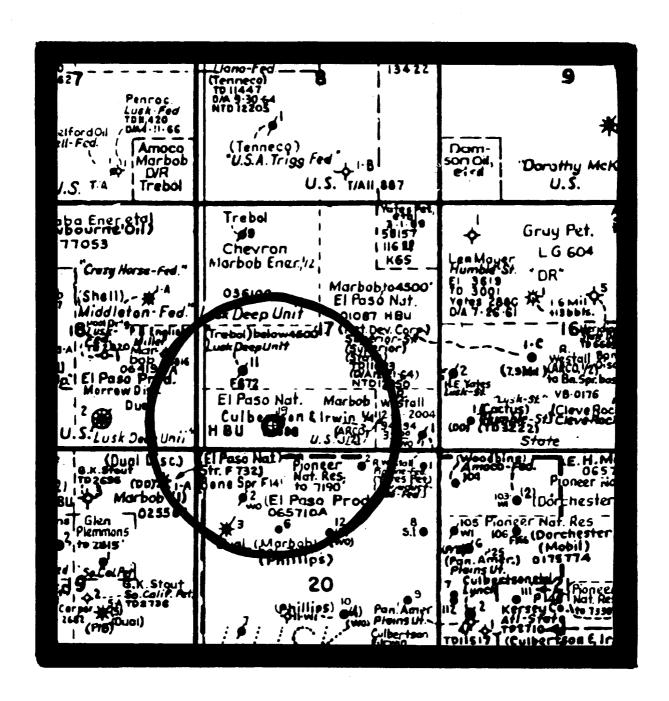
	^ .	 		HIC	 •	_

			MINI	MUM REQL	JIREMENT:	<u> </u>				
			3,000 MWP			5,000 MWP			10,000 MWF	
No.	_	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING	I.D.	NOMINAL	RATING
1	Line from drilling spool		3*	3,000		3*	5,000		3"	10,000
2	Cross 3"x3"x3"x2"			3,000			5,000			
	Cross 3"x3"x3"x3"									10,000
3	Valves(1) Gate □ Plug □(2)	3-1/8*		3,000	3-1/8*		5,000	3-1/8"		10,000
4	Valve Gate □ Plug □(2)	1-13/16"		3,000	1-13/16"		5,000	1-13/16*		10,000
48	Valves(1)	2-1/16*		3,000	2-1/16*		5,000	3-1/8"		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valves Gate □ Plug □(2)	3-1/8*		3,000	3-1/8"		5,000	3-1/8*		10,000
7	Adjustable Choke(3)	2°		3,000	2*		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1*		5,000	2"		10,000
9	Line		3″	3,000		3*	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		3"	10,000
11	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8*		5,000	3-1/8"		10,000
12	Lines		3*	1,000		3*	1,000		3*	2,000
13	Lines		3*	1,000		3″	1,000	•	3*	2,000
14	Remote reading compound standpipe pressure gauge			3,000			5,000			10,000
15	Gas Separator		2'x5'			2'x5'			2'x5'	
16	Line		4"	1,000		4"	1,000		4"	2.000
17	Valves Gate □ Plug □(2)	3-1/8"		3,000	3-1/8"		5,000	3-1/8*		10,000

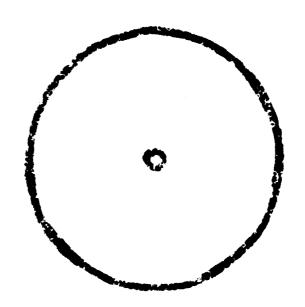
- (1) Only one required in Class 3M.
- (2) Gate valves only shall be used for Class 10M.
- (3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

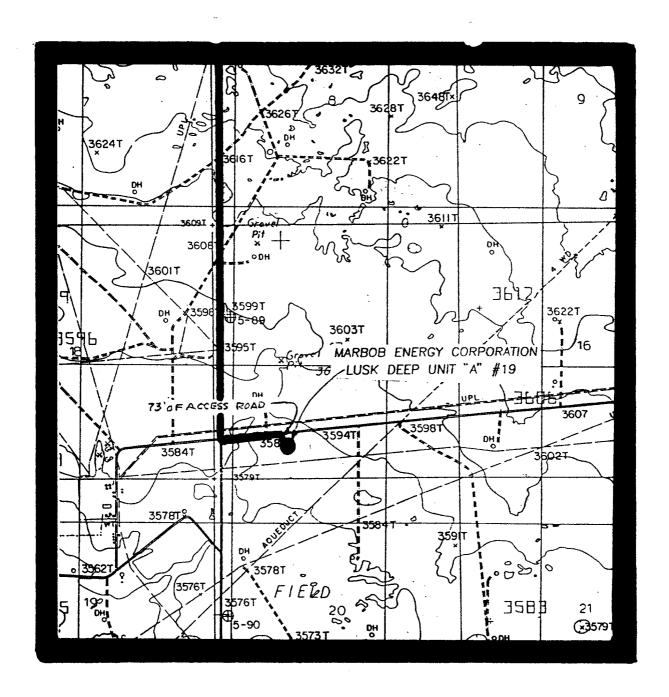
- 1. All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.
- 2. All flanges shell be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.
- 3. All lines shall be securely anchored.
- 4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.
- Choke manifold pressure and standpipe pressure gauges shall be available at the choke manifold to assist in regulating chokes. As an atternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.
- 6. Line from drilling spool to choke manifold should be as straight as possible. Lines downstream from chokes shall make



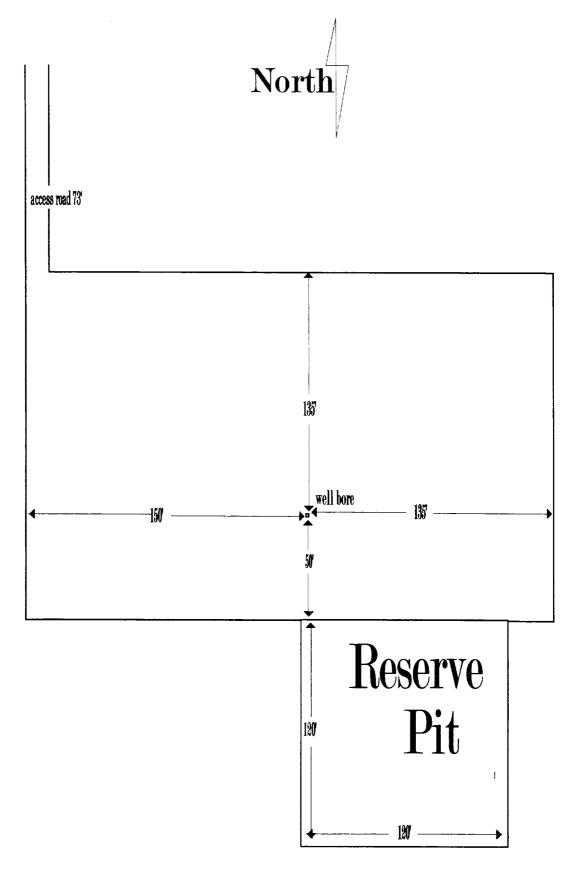
LUSK DEEP UNIT "A" No. 19 660' FSL & 1650' FWL Section 17; T19S - R32E Lea County, New Mexico



\$5.50 TO 11.



LUSK DEEP UNIT "A" No. 19 660' FSL & 1650' FWL Section 17; T19S - R32E Lea County, New Mexico



LUSK DEEP UNIT "A" No. 19 660' FSL & 1650' FWL Section 17; T19S - R32E Lea County, New Mexico

Exhibit Four

ELF 7 5 OL NDICATE WHEN CONFIDENTIAL LOGS CONFIDENTIAL LOGS