DEPARTMENT OF THE INTERIOR

UNITED STATES

ATS-09-204 RM

NMNM104666

BUREAU OF LAND MAN	BUREAU OF LAND MANAGEMENT				
APPLICATION FOR PERMIT TO			6 If Indian, Allote	e or Tribe Name	
AFFLICATION FOR FERMIT TO	DRILL ON REENIER			v	
la. Type of work. DRILL REENTE	R . ·		7 If Unit or CA Ag	greement, Name and No	-
lb. Type of Well ☐ Oil Well Gas Well ☐ Other	✓ Single Zone Multi	ple Zone	8. Lease Name and Sake Federal	····	
2 Name of Operator Marbob Energy Corporation			9 API Well No. 39-015-23442	30.015.	_ <u>a</u> 3442
3a Address P.O. Box 227, Artesia, NM 88211-0228 3b. Phone No. (include area code) 575-748-3303			10 Field and Pool, or Wildcat-Mor	r Exploratory	<u> </u>
4. Location of Well (Report location clearly and in accordance with any At surface 1980' FSL & 660' FEL At proposed prod zone	y State requirements*)		11 Sec., T. R M or Section 26, T	Blk and Survey or Area C26S - R25E	_
14 Distance in miles and direction from nearest town or post office* About 11 miles from White City, NM			12 County or Parish Eddy County	i	, [
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line, if any)	16 No of acres in lease 1,600.00	17 Spacir	ng Unit dedicated to this	s well	t.
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19 Proposed Depth 11800'			M/BIA Bond No. on file IB000412	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 3636.3' GL	22 Approximate date work will sta 01/31/2008	rt*	23. Estimated durati	ion	
	24. Attachments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No 1, must be a	ttached to th	as form		
 Well plat certified by a registered surveyor. A Drilling Plan 	4 Bond to cover t Item 20 above)	he operatio	ns unless covered by a	an existing bond on file (s	see
3 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)	· · · · · ·		ormation and/or plans :	as may be required by the	e
25 Signature Pancy T. Oppor	Name (Printed/Typed) Nancy T. Agnew			Date 12/31/2008	
Title Land Department					
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)			Date NOV	<u>1</u> 3 2009
Title / In FIELD MANAGER	Office CARLSE	BAD F	IELD OFFI	ICE	_
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equitable title to those righ	nts in the sub		entitle the applicant to FOR TWO YE	ARS
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	nme for any person knowingly and on any matter within its jurisdiction	willfully to n			

*(Instructions on page 2)

Carlsbad Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

Form 3160-5 (August 2007)

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

OCD-ARTESIA FORM APPROVI

1 OKW	/ LI I	I(O	V LD
OMB N	o. 10	04-	0137
Expires:			

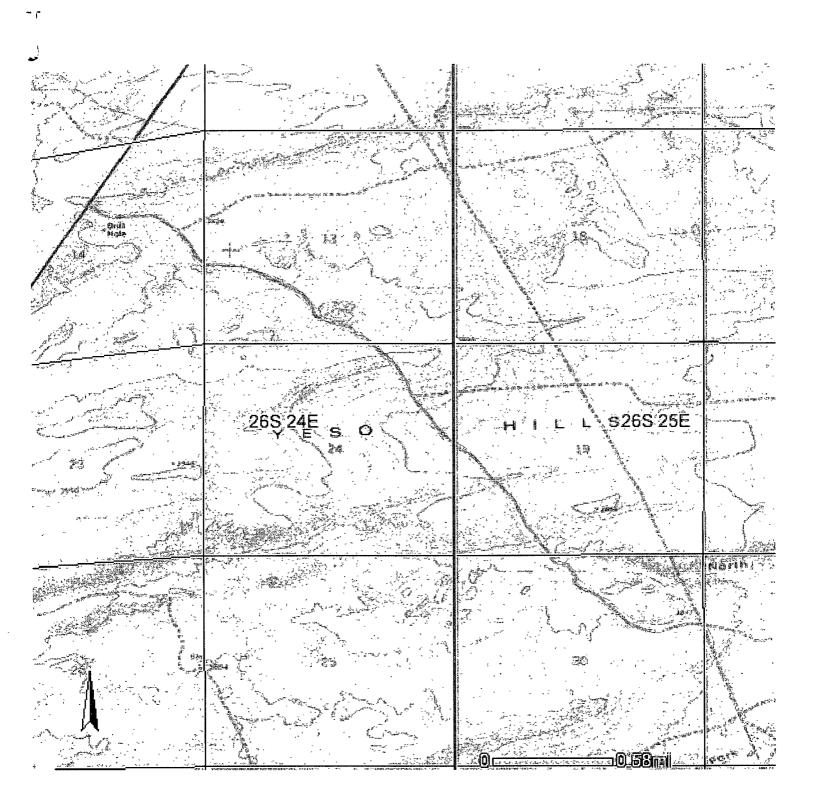
5	Lease	Serial	No.
N	MAAAA	222	

SUNDRY NOTICES AND REP Do not use this form for proposals abandoned well. Use Form 3160-3 (to drill or to re-enter an		6. If Indian, Allottee or	r Tribe Name
SUBMIT IN TRIPLICATE - Other	er instructions on page 2.		7. If Unit of CA/Agree	ement, Name and/or No.
1. Type of Well Oil Well Gas Well Other			8. Well Name and No. Sake Fed. #1	
2 Name of Operator Marbob Energy Corp.			9. API Well No.	
3a. Address P O Box 227 Artesia, NM 88211-0227	3b Phone No. (include area cod 575 748 3303	le)	10. Field and Pool or E Wildcat Morrow	Exploratory Area
4. Location of Well (Footage, Sec., T.,R,M, or Survey Description 1980 FSL 660 FEL Sec 26 T26S R25E	on)		11. Country or Parish, Eddy County, NM	State
12. CHECK THE APPROPRIATE E	BOX(ES) TO INDICATE NATUR	E OF NOTIO	CE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION	TY	PE OF ACT	ION	•
Notice of Intent Acidize Alter Casing	Deepen Fracture Treat	=	luction (Start/Resume) amation	Water Shut-Off Well Integrity
☐ Casing Repair ☐ Change Plans ☐ Final Abandonment Notice ☐ Convert to Injection	New Construction Plug and Abandon Plug Back	Tem	omplete porarily Abandon er Disposal	Other New Access Road
13. Describe Proposed or Completed Operation: Clearly state all put the proposal is to deepen directionally or recomplete horizont Attach the Bond under which the work will be performed or proposed to the involved operations. If the operations has been completed. Final Abandonment Notices must determined that the site is ready for final inspection.)	tally, give subsurface locations and provide the Bond No. on file with E atton results in a multiple completic st be filed only after all requiremen	measured a SLM/BIA. I on or recomp	nd true vertical depths of Required subsequent repoletion in a new interval,	f all pertinent markers and zones. orts must be filed within 30 days , a Form 3160-4 must be filed once

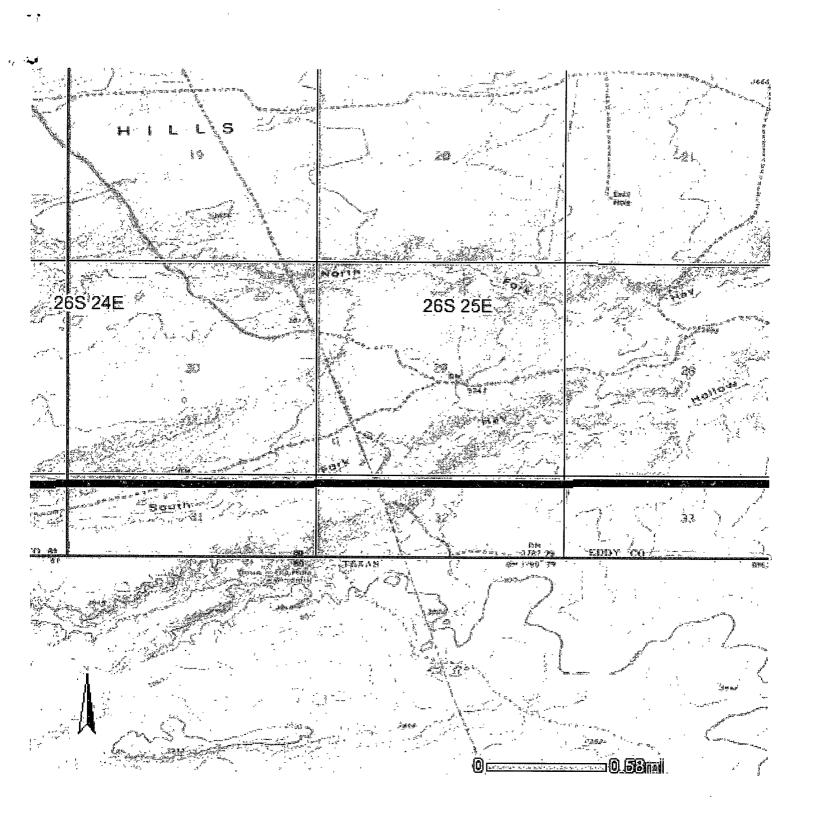
Attached is a plat showing the propsed access road. Thank you.

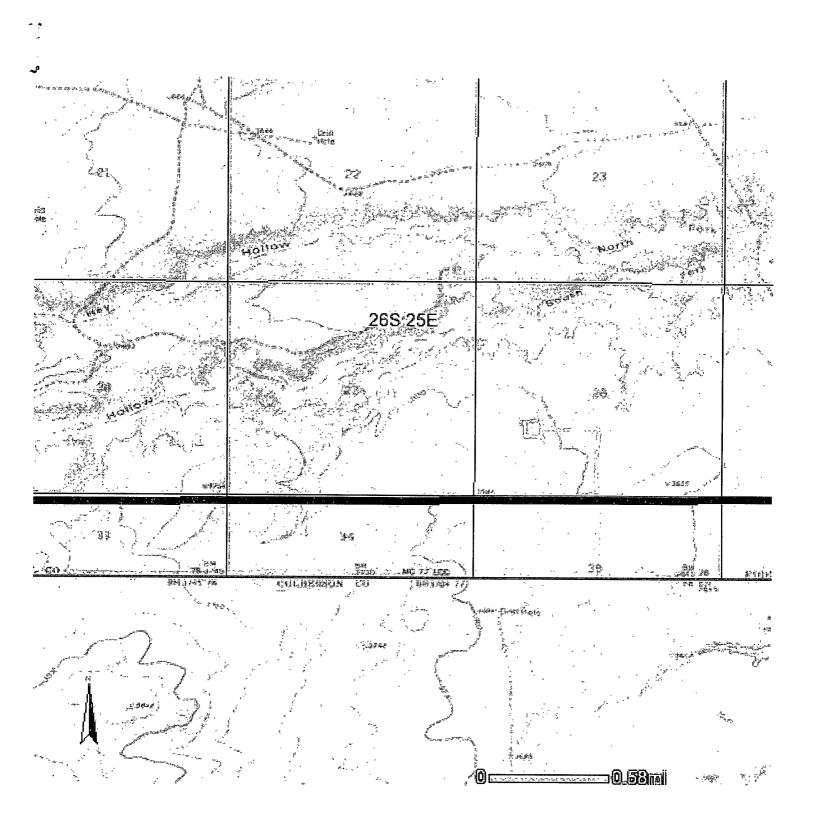
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE Approved by /s/ Don Peterson Title Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would Office entitle the applicant to conduct operations thereon.

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.



3\19\2009





3\19\2009

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:

December 31, 2008

Lease #:

NM-104666

Sake Federal #1

Legal Description:

1980' FSL & 660' FEL, Sec. 26-T26S-R25E

Eddy County, New Mexico

Formation(s): Permian

Bond Coverage: Statewide

BLM Bond File #: NMB000412

Marbob Energy Corporation

Naney T. Agnew

Land Department

District I

1625 N. French Dr., Hobbs, NM 88240

<u>District II</u>

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

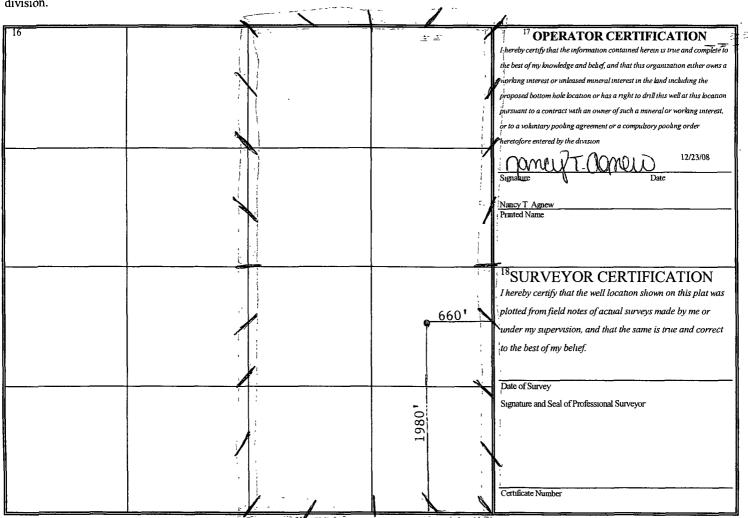
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis Dr., Santa Fe, NM 87505 ☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT 1 API Number Pool Code λ UO30-015-23442 Wildcat Morrow Property Name ⁶ Well Number **Property Code** Sake Federal T 912 . 1 ⁸ Operator Name OGRID No. Elevation 14049 Marbob Energy Corporation 3636.3 ¹⁰ Surface Location Lot Idn Feet from the North/South line East/West line County UL or lot no. Section Township Range Feet from the 1980 26-S 25-E South 26 660 East Eddy Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West lin Section Township Range County Joint or Infill Consolidation Code Order No. 12 Dedicated Acres

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.

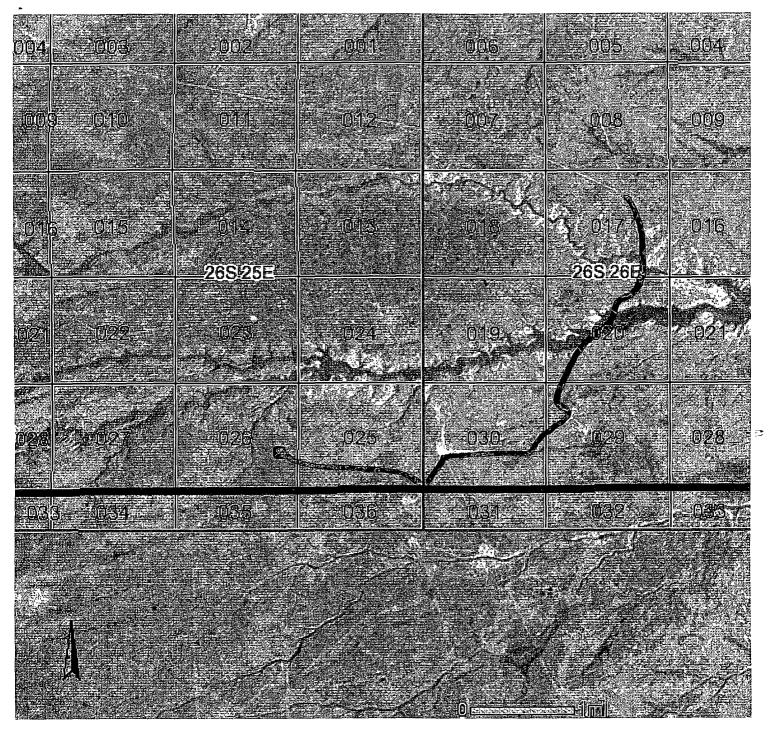


NE. MEXICO OIL CONSERVATION COMMISSIC WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes E-128 Effective 1-1-65

		All distances must be fro	T Gra ental portugeties of	the Section	
Cperator AMOC(O Production	1	Federal	ВО .	Well No.
Con Letter	Section 26	Tewnship 26 South	25 East	County	ly
Actual Footage Loc	ation of Well:	<u> </u>	·		
1980 Ground Level Elev.	Producing For	outh line and	660 tee	t from the Eas	Dedicated Accesses
3636.3	Mor	1	W ildea t Mor	row	320
2. If more th	an one lease is nd royalty).		outline each and ide	entify the owner	s on the plat below. ship thereof (both as to working sts of all owners been consoli-
dated by c Yes If answer this form i	ommunitization, on No If an is "no," list the of necessary.)	nitization, force-pooling swer is "yes;" type of owners and tract descri	g. etc? consolidation ptions which have a nterests have been	ctually been con	nsolidated. (Use reverse side of y communitization, unitization, see approved by the Commis-
sion.	<u> </u>		-		CERTIFICATION
RE	CEIVED		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	hereby certify that the information con- ined herein is true and complete to the est of my knowledge and belief.
	JUL I 8 1980 GENUNGICAL SUR RTESIA, NEW MEXI			Com	Admin. Analyst Amoco Production Company
		Survey of the control		= 660 si ma ui	hernby certify that the well location hown on this plat was plotted from field otes of actual surveys made by me or inder my supervision, and that the same in true and correct to the best of my mowledge and belief
			086)	Fied and	June 12,1980 Interest Professional Engineer For Land Surveyor Land Surveyor
2 337 62	-9C 1320 1680 198	2317 2641 2000	1800 1000	000 .0	PATRICK A ROMERO 6465 Rongld J Fideo 3239

Sake Federal #1 (Previously Federal BQ #1)



Existing Roads

12\31\2008

No warranty is made by the BLM for the use of the data for purposes not intended by the BLM.

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MARBOB ENERGY CORPORATION DRILLING AND OPERATIONS PROGRAM

RE-ENTRY Sake Federal #1 (Previously Federal BQ #1) 1980' FSL & 660' FEL Section 26-26S-25E 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. Geological surface formation: Permian
- 2. The estimated tops of geologic markers are as follows:

Bone Spring	4990'	Miss Lst	11,100'
Strawn	9150'	Woodford	11,250'
Atoka	9270'	Devonian	11,400′
Morrow	10,225'	TD	11,800′
Barnett	10,572'		

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

Atoka	9270'	Gas
Morrow	10,225'	Gas

Marbob Energy Corporation plans to re-enter this well by drilling out the existing plugs, then deepening the well from 10,730' to 11,800'.

4. Proposed Casing Program:

[Hole	Interval	OD	New or	Wt	Collar	Grade	Collapse	Burst	Tension
1	Size		Casing	Used	1		:	Design	Design	Design
								Factor	Factor	Factor
	17 1/2"	0 – 500′	13 3/8"	In Place	48#	STC	H-40			,
7	12 1/4"	0' - 5,027'	9 5/8"	In Place	40#	LTC	N-80			
	8 3/4"	0' - 11,800'	5 1/2"	New	17#	LTC	S95/P110	1.125	1.125	1.6

5. Proposed Cement Program:

a. 13 3/8" Surface

Cemented to surface with 530 sx "C" (In Place)

b. 9 5/8" Intermediate

∫

1. The property of the proper

Cemented to surface with 1400 sk, Lite. Tail in with 200 sk "c" plus 400 sx "C" 1174' to surface using 1".

See COA

c. 5 1/2" Prod

Cement with 750 Sk "H" Light, Yield 1.91, wt 12.6, Tail in with 550 Sk, "Super H" Wt 13.0 ppg, yield 1.68, TOC 4800'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 200' above the 9 5/8" casing shoe. **All casing is new and API approved.**

6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of nippling up on the 9 5/8" intermediate casing with a 5M system and test to 5000 psi with independent tester.

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 ram-type 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.

- 7. Estimated BHP: 4,908.8 psi
- 8. Mud Program: The applicable depths and properties of this system are as follows:

•		Mud 🖹	Viscosity	Waterloss
Depth	Type System	Weight	(sec)	(cc)
0' - 11800'	Cut Brine	9.0-9.1	28-32	N.C. / 10 C.C.

The necessary mud products for weight addition and fluid loss control will be on location at all times.

9. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 9 5/8" casing shoe until the casing is cemented. Breathing equipment will be on location upon drilling the 9 5/8" shoe until total depth is reached.

10. Testing, Logging and Coring Program:

- a. Drill stem tests will be based on geological sample shows.
- b. The open hole electrical logging program will be:
 - Total Depth to Intermediate Casing: Dual Laterolog-Micro Laterolog and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface: Compensated Neutron with Gamma Ray
 - iii. No coring program is planned

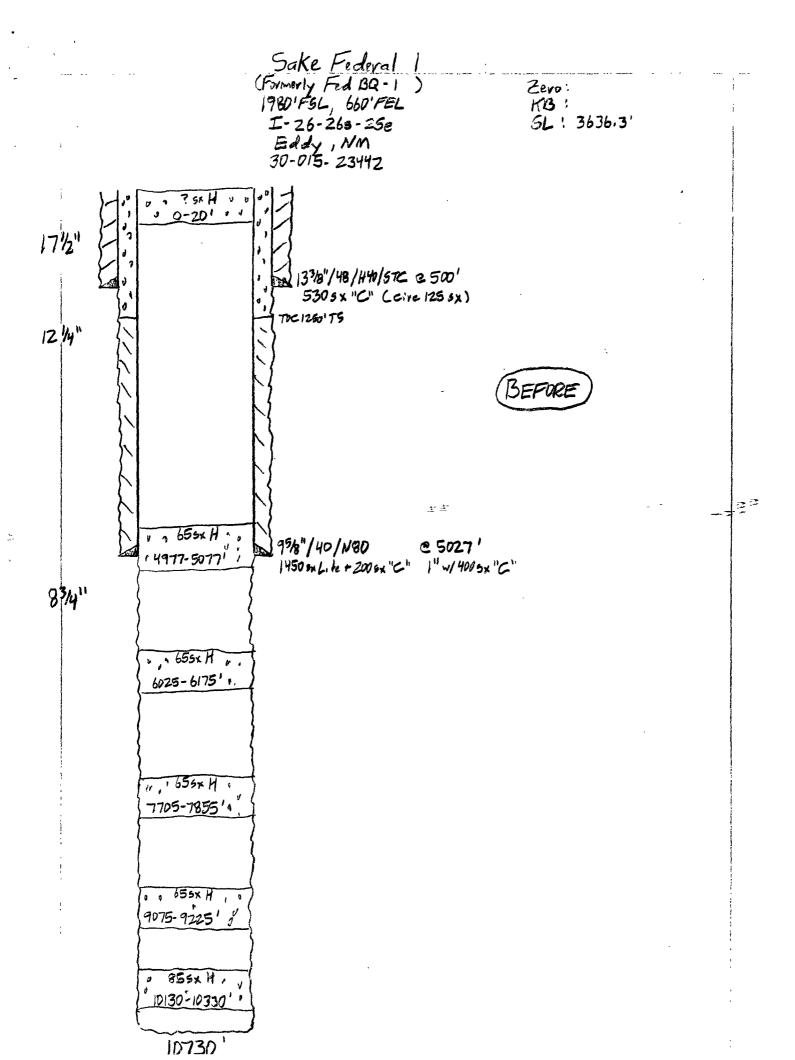
iv. Additional testing will be initiated subsequent to setting the production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

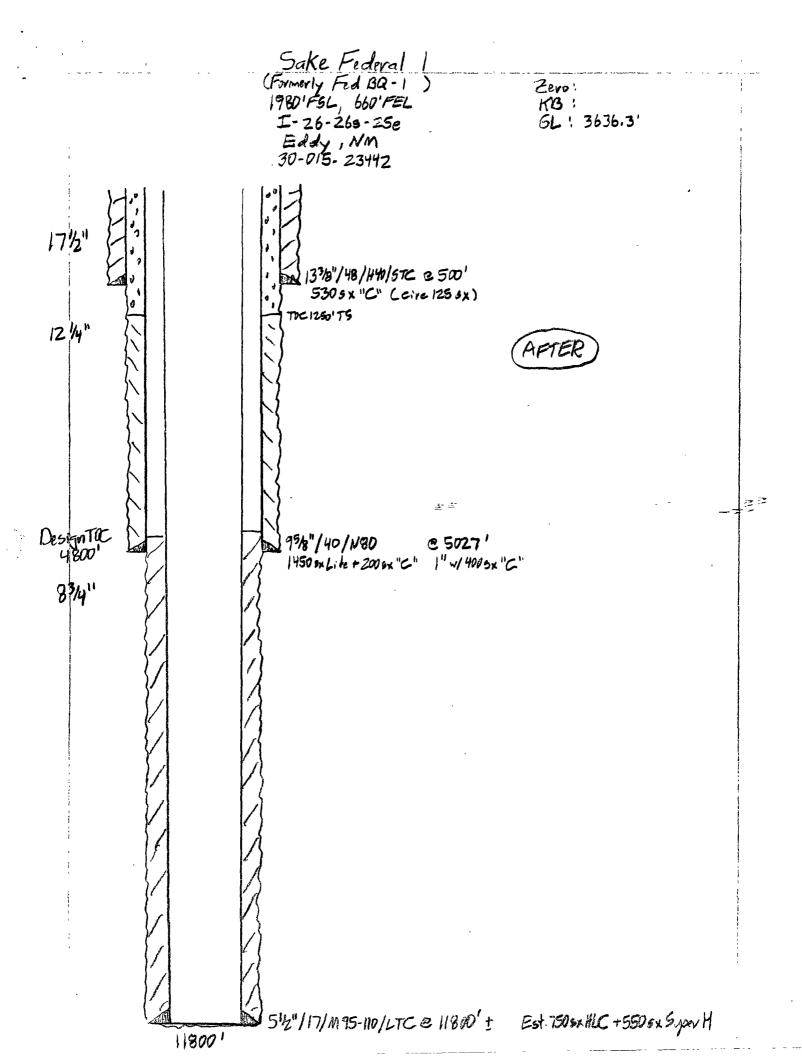
11. Potential Hazards:

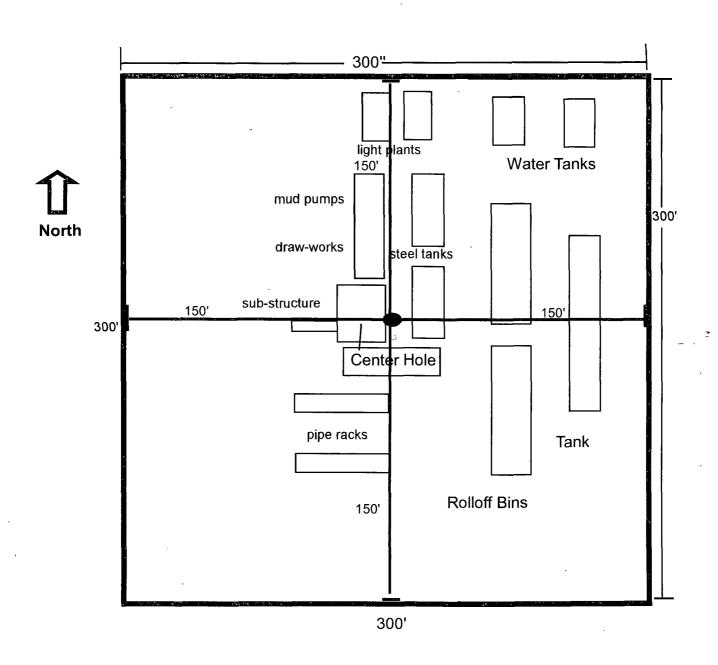
a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP: 4,908.8 psi. Estimated BHT: 190°. No H2S is anticipated to be encountered.

12. Anticipated starting date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 21 days.



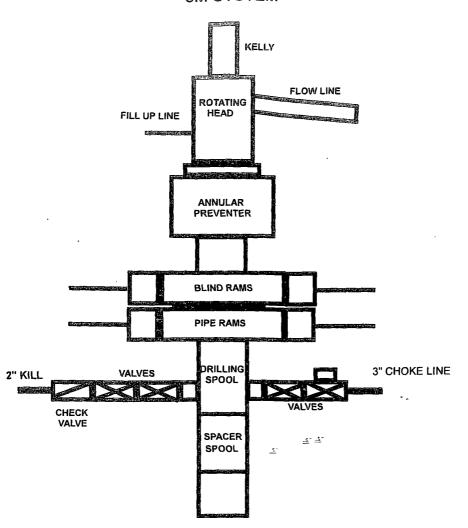




RE-ENTRY
Sake Federal #1
(Previously Federal BQ #1)
1980' FSL & 660' FEL
Section 26-26S-25E
Eddy County, New Mexico

EXHIBIT THREE

5M SYSTEM



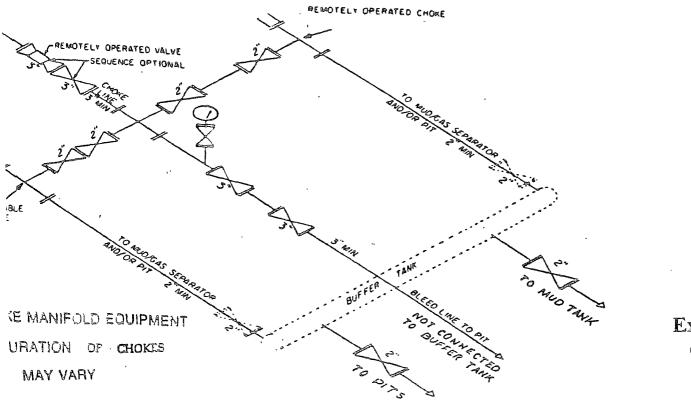


Exhibit One

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.

We plan to complete this well in the Barnett which is sweet and <u>we don't anticipate</u> <u>cutting any formations that contain H2S gas</u> during the drilling of the above referenced well. Therefore, we do not believe that an H2S contingency plan is necessary.

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

1-575-748-3303

EMERGENCY CALL LIST

	<u>Office</u>	<u>Mobile</u>	<u>Home</u>
Marbob Energy Corp.	575-748-3303		,
Sheryl Baker	575-748-3303	575-748-5489	575-748-2396
Johnny C. Gray	575-748-3303	575-748-5983	575-885-3879
Raye Miller	575-748-3303	575-513-0176	575-746-9577
Dean Chumbley	575-748-3303	575-748-5988	575-748-2426

EMERGENCY RESPONSE NUMBERS Eddy County, New Mexico

State Police	575-748-9718
Eddy County Sheriff	575-746-2701
Emergency Medical Services (Ambulance)	² 911 or 575-746-2701
Eddy County Emergency Management (Harry Burgess)	575-887-9511
State Emergency Response Center (SERC)	575-476-9620
Carlsbad Police Department	575-885-2111
Carlsbad Fire Department	575-885-3125
New Mexico Oil Conservation Division	575-748-1283
Indian Fire & Safety	800-530-8693
Halliburton Services	800-844-8451

MARBOB ENERGY CORPORATION MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RE-ENTRY
Sake Federal #1
(Previously Federal BQ #1)
1980' FSL & 660' FEL
Section 26-26S-25E
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:

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by John West Surveying Company.
- b. 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.
- 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.

DIRECTIONS:

From the intersection of Dillahunty CR 424 & Gypsum CR 425 go southwest approximately 8310' then go west NW approx 3601' then west 2770' to location.

2. ACCESS ROAD:

The old reclaimed road will be utilized.

3. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. In the event the well is found productive, the Sake Federal #1 tank battery would be utilized and the necessary production equipment will be installed at the well site. A Site Facilities Diagram will be submitted upon completion of facility.
- B. All flowlines will adhere to API standards
- C. If electricity is needed, power will be obtained from Central Valley Electric. Central Valley Electric will apply for ROW for their power lines.

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- D. If the well is productive, rehabilitation plans are as follows:
 - i. The original topsoil from the well site will be returned to the location. The drill site will then be contoured as close as possible to the original state.

4. LOCATION AND TYPES OF WATER SUPPLY:

This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing roads shown in Exhibit #2. On occasion, water will be obtained form a pre-existing water well, running a pump directly to the drill rig. In these cases where a poly pipeline is used to transport water for drilling purposes, the existing road shown in Exhibit "2" will be utilized.

5. CONSTRUCTION MATERIALS:

All Caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of 6" rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by for roads, if available.

6. METHODS OF HANDLING WASTE MATERIAL:

- a. All trash, junk and other waste material will be removed from the wellsite within 30 days after finishing drilling and/or completion operations. All waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- b. The supplier, including broken sacks, will pick up slats remaining after completion of well.
- c. A porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- d. Disposal of fluids to be transported by an approved disposal company.

7. ANCILLARY FACILITIES:

No campsite or other facilities will be constructed as a result of this well.

8. WELLSITE LAYOUT:

- a. Exhibit 3 shows the proposed well site layout with dimensions of the pad layout.
- b. This exhibit indicates proposed location of fresh water sump pits if utilized and living facilities.
- c. Mud pits in the active circulating system will be steel pits and a closed loop system will be utilized.

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9. PLANS FOR SURFACE RECLAMATION:

- a. After finishing drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The original top soil will again be returned to the pad and contoured, as close as possible, to the original state.
- b. The location and road will be rehabilitated as recommended by the BLM.
- c. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

10. SURFACE OWNERSHIP:

The surface is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and the surface location will be restored as directed by the BLM.

11.OTHER INFORMATION:

a. The area surrounding the well site is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, some mesquite bushes and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.

- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within 2 miles of location.
- d. A Cultural Resources Examination will be completed by Boone Archeological and forwarded to the BLM office in Carlsbad, New Mexico.

12.OPERATOR'S REPRESENTATIVE:

A. Through A.P.D. Approval:

Dean Chumbley, Landman Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (575)748-5988 Cell (575)513-2544

В. **Through Drilling Operations**

> Sheryl Baker, Drilling Supervisor Marbob Energy Corporation P. O. Box 227 Artesia, NM 88211-0227 Phone (575)748-3303 Cell (575)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.

Marbob Energy Corporation

William Miller

Land Department

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Marbob Energy
NMNM104666
Sake Federal No 1
1980' FSL & 660' FEL
Section 26, T. 26 S., R 25 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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◯ Reseeding Procedure/Interim Reclamation
Final Abandonment/Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave/Karst

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Pad Berming:

The pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the pad. All sides of the pad will be bermed.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in Critical cave/karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

Re Entry Conditions

In order to re enter this existing well, the old reserve pit area will need to be caliche capped and left undisturbed during drilling and production operations, water diversion and erosion control methods will be used around old reserve pit area to prevent cutting of the old pit area and to keep contaminants from flowing into Hay Hollow. At final reclamation, all caliche will be stockpiled for the BLM to stabilize the location.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

There is no measurable soil on this well pad to stockpile. No topsoil stockpile is required.

C. RE ENTRY CONDITIONS

The old reserve pit area will need to be caliche capped and left undisturbed during drilling and production operations, water diversion and erosion control methods will be used around old reserve pit area to prevent cutting of the old pit area and to keep contaminants from flowing into Hay Hollow.

D. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

E. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (505) 234-5972.

F. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

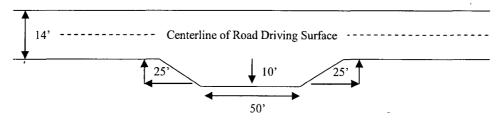
Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

Standard Turnout - Plan View

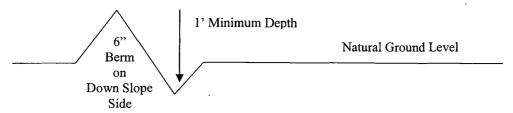


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval $\frac{1}{4\%}$

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

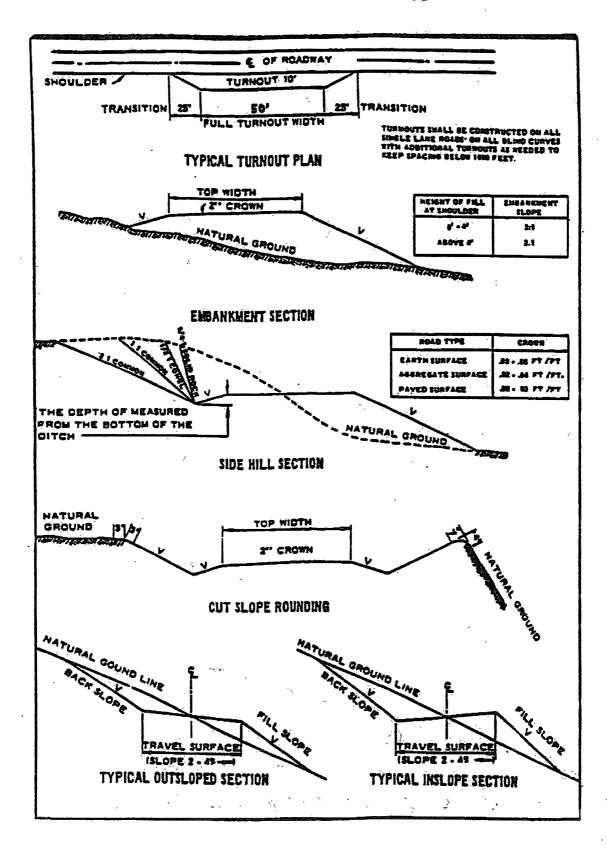
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 - Cross Sections and Plans For Typical Road Sections



VII. DRILLING (Re-entry of Federal BQ #1 well)

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests
- d. CIT tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Although Hydrogen Sulfide has not been reported in this section, it is always a potential hazard. If Hydrogen Sulfide is encountered, please report measured amounts and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

- 1. The 13 3/8 inch surface casing is set at 500 feet and cemented to the surface.
- 2. The 9 5/8 inch intermediate casing is set at 5027 feet and cemented to surface.

A CIT is to be performed on the 9 5/8 inch casing per Onshore Oil and Gas Order 2.III.B.1.h prior to drilling the shoe plug. Also a 500 psi pressure test is to be performed on the 13 5/8 inch by 9 5/8 inch annulus to verify cement integrity. Operator to report results to the BLM.

- 3. The minimum required fill of cement behind the 5 1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Report results to BLM office.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API'RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8 intermediate casing shoe shall be 5000 (5M) psi.
- 3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. The tests shall be done by an independent service company.
 - b. The results of the test shall be reported to the appropriate BLM office.
 - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

RGH 030209

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION & RESEEDING PROCEDURE

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer. The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Operators should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

B. RESEEDING PROCEDURE

Once the well is re entered, all completion procedures have been accomplished, and all trash removed, reseed the location and all surrounding disturbed areas as follows:

Seed Mixture 4, for Gypsum Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Alkali Sacaton (Sporobolus airoides)	1.0
DWS Four-wing saltbush (Atriplex canescens)	5.0

DWS: DeWinged Seed

Pounds of seed x percent purity x percent germination = pounds pure live seed

^{*}Pounds of pure live seed:

X. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

At final reclamation, the authorized officer shall be notified and all caliche will be stockpiled for the BLM to stabilize the location.

On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the private surface land owner agreement.

Bureau of Land Management, Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cultural and Archaeological Resources

Conditions of Approval

Historic properties in the vicinity of this project are protected by federal law. In order to ensure that they are not damaged or destroyed by construction activities, the project proponent and construction supervisors shall ensure that the following stipulations are implemented.

Date of Issue: BLM Report No.: 09-0653

Project Name: Proposed Sake Fed well #1 & associated access road

1. Professional archaeological monitoring. Contact your project archaeologist, or BLM's Cultural Resources Section at (575) 234-2228, 5917, 2236, or 5967, for

These stipulations must be given to your monitor at least 5 days prior to the start of construction.

No construction, including vegetation removal or other site prep may begin prior to the arrival of the monitor.

2. The archaeological monitor

Observe all ground-disturbing activities within 100 feet of cultural site no. LA 35020

Ensure that all reroutes are adhered to avoid cultural site no.(s) LA

Other: Ensure that the material added does not extend past the existing disturbed roadway margins within 100 feet of site LA 35020.

Site Protection and Employee Education: It is the responsibility of the project proponent and his construction supervisor to inform all employees and subcontractors that cultural and archaeological sites are to be avoided by all personnel, vehicles, and equipment; and that it is illegal to collect, damage, or disturb cultural resources on Public Lands.

For assistance, contact BLM Cultural Resources:

Bruce Boeke (575) 234-5917 George MacDonell (575) 234-2228

Martin Stein Lynn Robinson (575) 234-5967 (575) 234-2236

Jeremy Iliff

(575) 234-6231