

Form 3160-3 (April 2004)

APR - 7 2008

DEPARTMENT OF THE IN BUREAU OF LAND MANA	5. Lease Senal No. NMNM 59378						
APPLICATION FOR PERMIT TO DI			6. If Indian, Allotee	or Tribe N	ame		-
la Type of work DRILL REENTER	7 If Unit or CA Agreement, Name and No			-			
ib. Type of Well: □O₁l Well ☑ Gas Well □Other	8 Lease Name and W Milagro 28 Fed	Vell No. leral Con	3:	58	³ 7/		
2 Name of Operator Mewbourne Oil Company - 14744			9. API Well No		6		
3a. Address PO Box 5270 Hobbs, NM 88240 3b	10. Field and Pool, or E Happy Valley	exploratory	CP G	<u> </u>	- [
4 Location of Well (Report location clearly and in accordance with any S At surface 1950' FNL & 740' FEL	tate requirements.*)		11. Sec , T R. M. or BI Sec 28-T22S-R:		ey or Are	a	_
At proposed prod. zone Same							_
14 Distance in miles and direction from nearest town or post office* 8 Miles SW of Carlsbad			12. County or Parish Eddy		13. State	lМ	
15. Distance from proposed* location to nearest	6 No of acres in lease	17 Spacur	ng Unit dedicated to this w	rell		****	-
property or lease line, ft. (Also to nearest drig. unit line, if any) 740'	10' 320 320						
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1090'	9 Proposed Depth 11850	BIA Bond No. on file 693, Nationwide				-	
21 Elevations (Show whether DF, KDB, RT, GL, etc.) 2 3341' GL	2 Approximate date work will sta 02/21/2008	rt*	23. Estimated duration 45			-	
	24. Attachments		<u> </u>				-
The following, completed in accordance with the requirements of Onshore C	Oil and Gas Order No.1, shall be a	ttached to th	us form:				-
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Las SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). ods, the 5. Operator certification of the state of th	cation specific info	ns unless covered by an ormation and/or plans as	Ü		•	;
25. Signature Rolle Lathan	Name (Printed/Typed) Jackie Lathan			Date 01/21	/2008		=
Title Title (Man)			1	01/21			-
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	,		Date A	PR -	4	200
FIELD MANAGER			FIELD OFF				_
Application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those righ		ject lease which would en	•	-		AR:
Title 18 USC Section 1001 and Title 43 USC Section 1212, make it a crum- States any false, fictitious or fraudulent statements or representations as to a	e for any person knowingly and v ny matter within its jurisdiction.						= -

*(Instructions on page 2)

CARLSBAD CONTROLLED WATER BASIN

SEE ATTACHED FUR CONDITIONS OF APPROVAL APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS **ATTACHED**

United States Department of the Interior Bureau of Land Management Roswell Field Office 2909 West Second Street Roswell, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name:

Mewbourne Oil Company

Street or Box:

P.O. Box 5270

City, State:

Hobbs, New Mexico

Zip Code:

88241

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

Lease Number:

Lease Number #NMNM 59378

Legal Description of Land:

1950' FNL & 740' FEL, Unit H, of Sec 28-T22S-R26E

Eddy County, New Mexico

Formation (if applicable):

Morrow

Bond Coverage:

\$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature:

Name: NM (Micky) Young

Date: January 21, 2008

DISTRICT I 1825 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005

DISTRICT II

. Submit to Appropriate District Office

1301 W. Grand Avenue, Artesia, NK 68210 DISTRICT III

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV •

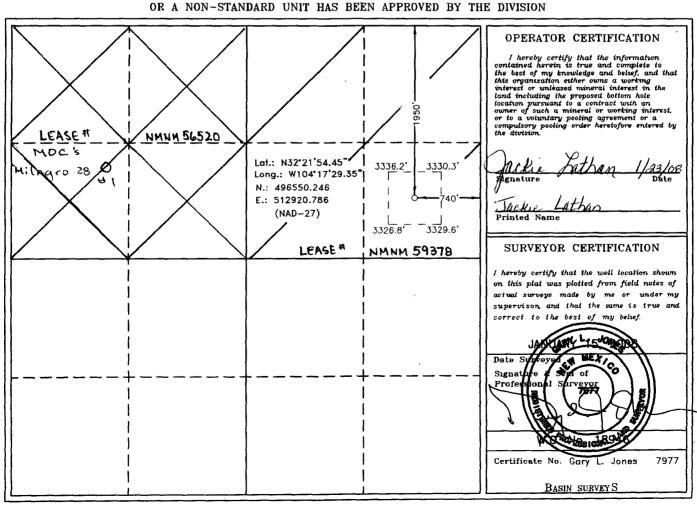
DISTRICT IV 1820 S. St. Francis Dr., Sants Fe, NM 87505

C AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API	Number			Pool Code		Pool Name						
			18	060		Happy Valley Morrow - Ato Ka			·			
Property (Code				Proper	ty Nam	e]		Well No			
				MILAGR	?O "28"	FED	ERAL COM		2			
OGRID N	o.				Operate	or Nam	e		Elevat	Elevation		
12744				MEWB	OURNE	OIL	COMPANY		3341'			
					Surface	Loca	ation					
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County		
Н	28	22 S	26 E		195	0	NORTH	740	EAST	EDDY		
			Bottom	Hole Loc	cation If	Diffe	rent From Sur	face				
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	r Infill Co	nsolidation (Code Or	der No.							
1320		1										

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



Drilling Program Mewbourne Oil Company Milagro 28 Federal Com #2 1950' FNL & 740' FEL of Sec 28-T22S-R26E Eddy County, New Mexico

1. The estimated top of geological markers are as follows:

*Delaware	2520'	*Strawn	10050'
*Bone Springs	4880'	*Atoka	10580'
*Wolfcamp	8520'	*Morrow	10875'

2. Estimated depths of anticipated fresh water, oil, or gas:

Water

Fresh water will be protected by setting surface casing at 1650'

And cement to surface.

Hydrocarbons

All zones below Delaware

3. Pressure control equipment:

A 2000 psi WP Annular BOP will be installed on the 13 3/8" surface casing. Testing of 2000# annular will be done with rig pump. A 5000# WP Double Ram BOP and 5000# WP Annular will be installed after running 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2 to insure mechanical integrity and the inspection will be recorded on the daily drilling report.

Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the kelly is not in use.

4. Proposed casing and cementing program:

A	A:	Program:
Æ.A	9.23623930	2-F6353F32577

Hole Size Conductor	Casing 20"		Wt/Ft.	Grade	<u>Depth</u> 0-80'	Jt Type
17 1/2"	13 3/8"	(new)	54.50#	J55	0-1650'	ST&C
12 1/4"	9 5/8" 9 5/8" 9 5/8"	(new) (new)	40# 40# 40#	N80 J55 HCK55	0-100' 100'-4000' 4000'-5000'	LT&C LT&C LT&C
8 ¾"	5 ½" 5 ½" 5 ½"	(new) (new) (new)	17# 17# 17#	HCP110 N80 HCP110	0-3000' 3000'-6000' 6000'-TD	LT&C LT&C LT&C
			~ "			

Minimum casing design factors: Collapse 1.2, Burst 1.1, Tensile strength 2.0.

B. Cementing Program

- i. Surface Casing: 600 sacks Class Class C light cement containing 1/2#/sk celloflake, 5#/sk gilsonite, 2% CaCl. Yield at 1.98 cuft/sk. 400 sks class c cement containing 2% CaCl. Yield at 1.34 cuft/sk.Cement circulated to surface.
- ii. Intermediate Casing: 800 sacks Class C light (35:65:6) containing 5#/sk gilsonite. Yield at 1.98 cuft/sk. 400 sacks Class C cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cement circulated to surface.
- iii. Production Casing: 600 sacks Class H cement containing fluid loss additive, friction reducer additive, compressive strength enhancer, and NaCl. Yield at 1.28 cuff/sk. Shallower productive zones may be protected by utilizing a multiple stage cementing tool in the production casing below potentially productive zones and cementing with a light cement slurry. Cement to tie back 200' into previous casing string.

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

5. Mud Program:

Interval	Type System	Weight	Viscosity	Fluid Loss
<u>0'-1650</u> '	FW spud mud	8.6-9.4	32-34	NA
1650'-5000'	Fresh Water	8.4	28-30	NA
5000'10400'	Cut Brine	8.4-9.4	28-30	NA
10400'-TD	BW/Starch	9.4-9.8	30-40	8-15

(Note: Any Weight Above 8.6 #/gallon would be to hold back Wolfcamp shale, rather than abnormal BHP.)

It may become necessary to drill thru the Capitan reef with aerated fluid to maintain circulation.

6. Evaluation Program:

Samples: 10' samples from intermediate to TD

Logging: Compensated density and dual laterlog from intermediate casing to TD.

Coring: As needed for evaluation Drill Stem Tests: As needed for evaluation

7. Downhole Conditions

Zones of abnormal pressure: None anticipated

Zones of lost circulation: Anticipated in surface and intermediate holes

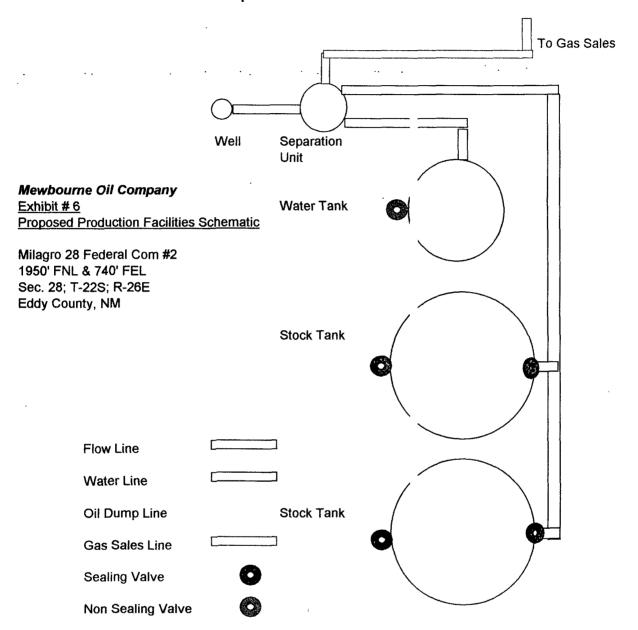
Maximum bottom hole temperature: 180 degree F

Maximum bottom hole pressure: 9.0 lbs/gal gradient or less

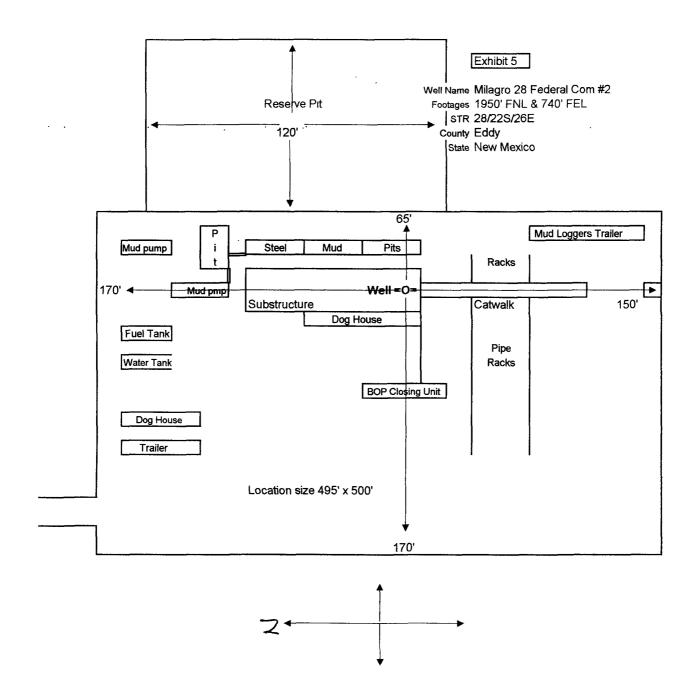
8. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

Proposed Production Facilities Schematic



Mewbourne Oil Company



SEE ATTACHED FUR CONDITIONS OF APPROVAL

Notes Regarding Blowout Preventer

Mewbourne Oil Company
Milagro 28 Federal Com #2
1950' FNL & 740' FEL
Section 28-T22S-R26E
Eddy County, New Mexico

- 1. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- 2. Blowout preventer and all fittings must be in good condition with a minimum 5000 PSI working pressure.
- 3. Safety valve must be available on rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 5000 PSI working pressure.
- 4. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- 5. A Kelly cock shall be installed on the Kelly at all times.
- 6. Blowout preventer closing equipment to include an accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

Mewbourne Oil Company BOP Schematic for 12 1/4" Hole

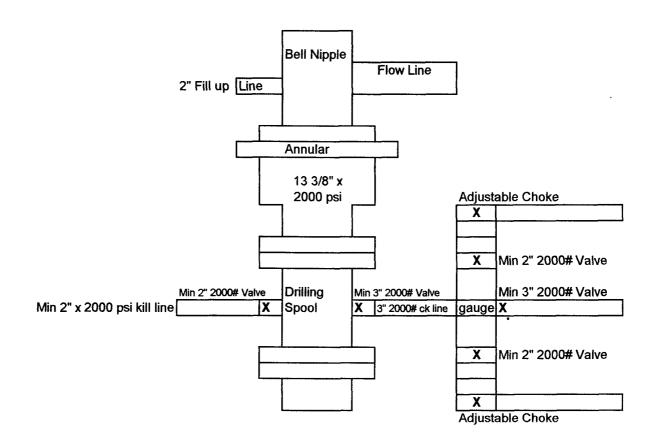
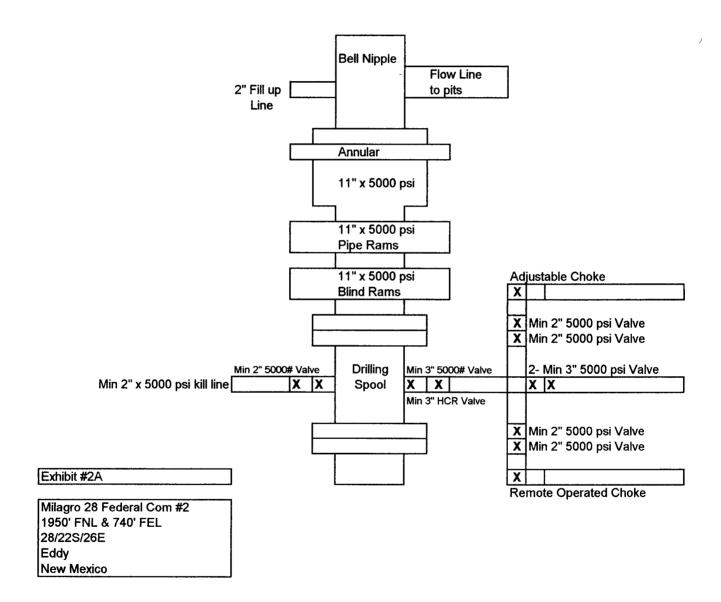


Exhibit #2

Milagro 28 Federal Com #2 1950' FNL & 740' FEL 28/22S/26E Eddy New Mexico

Mewbourne Oil Company BOP Schematic for 8 3/4" or 7 7/8" Hole



Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company Milagro 28 Federal Com #2 1950' FNL & 740' FEL Sec 28-T22S-R26E Eddy County, New Mexico

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

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

'Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

- 1. Well Control Equipment
- 2. A. Flare line with automatic igniter or continuous ignition source.
 - B. Choke manifold with minimum of one adjustable choke.
 - C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- 2. <u>Protective Equipment for Essential Personnel</u>

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Milagro 28 Federal Com #2 Page 2

2. Hydrogen Sulfide Protection and Monitoring Equipment Two portable hydrogen sulfide monitors positioned on location for or

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 ppm.

3. Visual Warning Systems

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. If a drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

MEWBOURNE OIL COMPANY

Milagro 28 Federal Com #2 1950' FNL & 740' FEL of Sec 28-T22S-R26E 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 restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

1. Existing Roads:

1

- A. A road map showing the location of the proposed well is attached to C102. Exhibit #3 is a topographic map showing the location of the proposed well and access road (proposed road is highlighted in blue).
- B. Directions to location from Carlsbad, NM: South on US 62/180 1.6 miles to Hidalgo Rd. (CR627). Turn right (west) on Hidalgo and continue west approx 4 miles to McKittrick Rd. Turn Right (North) on McKittrick Rd. and continue 0.8 miles. Turn right (east) on lease road and continue approx 0.8 miles to location.

2. Proposed Access Road:

- A Approx 1000' of new lease road will be needed.
- B. The access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of this well site shown on Exhibit 4.

4. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be located on the well pad.
- C. All production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.

5. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

6. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

7. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purposed will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit prior to closure.
- C. Water produced during operations will be disposed of in the reserve pit.
- D. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- E. Current regulations regarding the proper disposal of human waste will be followed.
- F. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

8. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

9. Well Site Layout

- A A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad, pits, and location of major rig components are shown.
- B. The reserve pit will be lined with a high quality plastic sheeting to prevent migration of fluids.
- C. The pad dimension of 350' X 250' has been staked and flagged.
- D. An archaeological survey is in the process of being conducted on the proposed access road and location pad.

10. Plans for Restoration of Surface

- A. Upon cessation of the proposed operations, if the well is abandoned, the location and road will be ripped and re-seeded. The reserve pit area, after allowing to dry will be leveled. The entire location will be restored to the original contour as much as reasonable possible. All trash, garbage, and pit lining will be hauled to appropriate disposal to assure the location is aesthetically pleasing as reasonable possible. All restoration work will be completed within 180 days of cessation of activities.
- B. The disturbed area will be restored by re-seeding during the proper growing season.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. The reserve pit will be fenced on the fourth side after the drilling rig is removed to prevent the endangerment of livestock. The fence will remain in place until the pit area has been leveled and restored.

- D. Upon cessation of the proposed operations, if the well is not abandoned, the reserve pit area will be restored as per BLM/OCD guidelines. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.
- E. Within 90 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location will be cleaned of all trash and junk to assure the well site is left as aesthetically pleasing as reasonably possible.

11. Surface Ownership:

The surface is owned by: Located entirely on federal surface.

12. Other Information:

- A. Topography: Refer to the archaeological report for a detailed description of flora, fauna, soil characteristics, dwellings, and historical or cultural sites.
- B. The primary use of the surface at the location is for grazing of livestock.

13. Operator's Representative:

A. Through APD approval, drilling, completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 505-393-5905

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (505) 393-5905

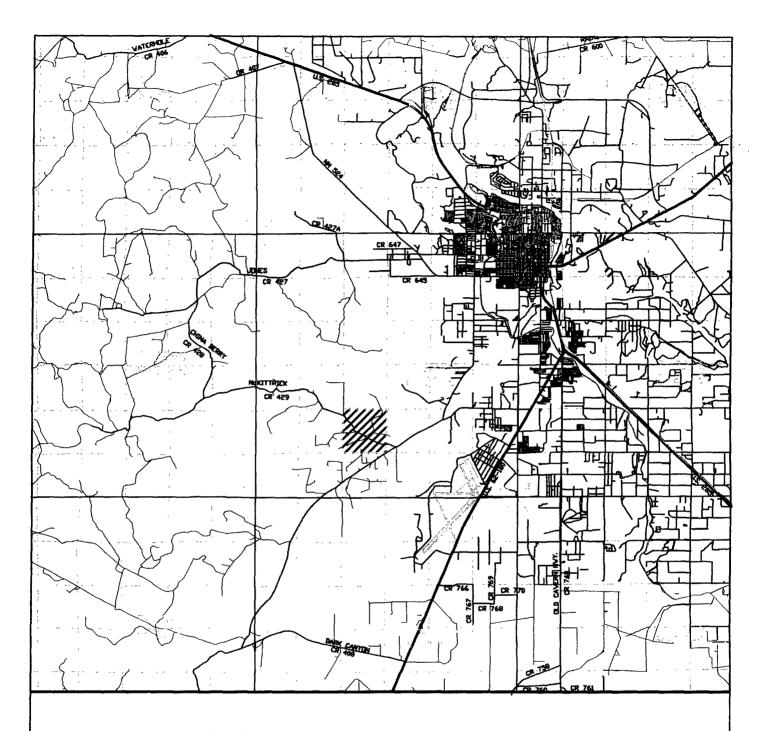
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route for the Milagro 28 Federal Com #2, 1950' FNL & 740' FEL of Sec 28-T22S- R26E, Eddy County, New Mexico; that I am familiar with the conditions which currently exist; that the statements 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 Mewbourne Oil Company, its contractors and subcontractors, in accordance 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.

Signature:

Date: 5008

Print: W.M. Young

Hobbs District Manager



MILAGRO "28" FEDERAL COM #2 Located 1950' FNL and 740' FEL Section 28, Township 22 South, Range 26 East, N.M.P.M., Eddy County, New Mexico.

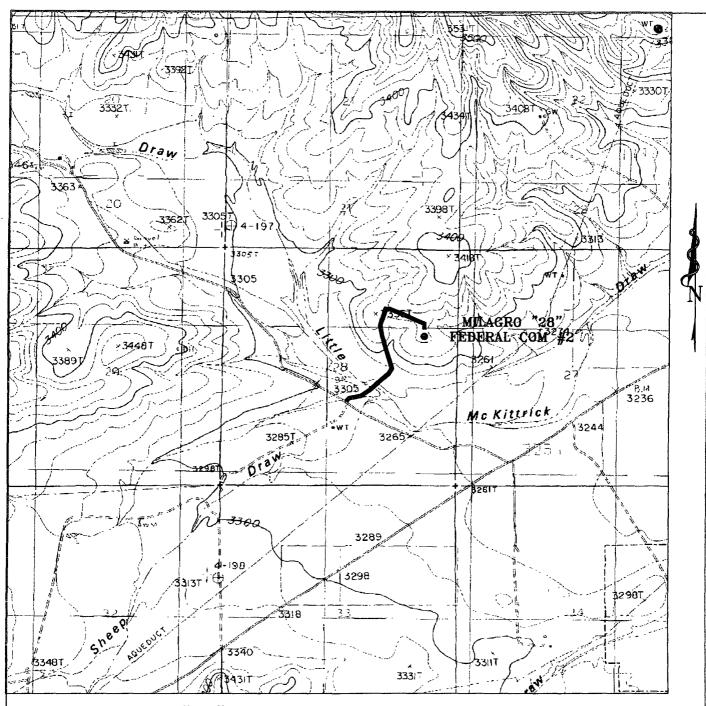
EXHIBIT 3A



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 — Office (505) 392-3074 — Fax basinsurveys.com

W.O. Number	18946TR JMS
Survey Date	01-15-2008
Scale: 1" = 2	MILES
Date: 01-17-	-2008

MEWBOURNE OIL CO.



MILAGRO "28" FEDERAL COM #2
Located 1950' FNL and 740' FEL
Section 28, Township 22 South, Range 26 East,
N.M.P.M., Eddy County, New Mexico.

EXHIBIT #3



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.com

W.O Number 18946T JMS
Survey Date: 01-15-2008
Scale: 1" = 2000'
Date 01 - 17 - 2008

MEWBOURNE OIL CO.

Exhibit #4 Status of Wells in Immediate Vacinity

Mewbourne Oil Company

Milagro 28 Federal Com #2 1950' FNL & 740' FEL Section 28-T22S-R26E Eddy County, New Mexico

Section 28-T22S-R26E

Operator:

E G L Exploration & Production, LLC

Well Name:

Happy Valley Federal Com. #1

Unit Letter:

G

Status:

PA

Field:

Happy Valley Morrow

Operator:

Dominion Oklahoma Texas Exp. & Prod. Inc.

Well Name:

Sheep Draw 28 Federal #1

Unit Letter:

I

Status:

PA

Field:

Happy Valley Morrow

Operator:

Mewbourne Oil Company

Well Name:

Milagro 28 Federal Com #1

Unit Letter:

E

Status:

P

Field:

Happy Valley Morrow

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mewbourne Oil Company
LEASE NO.: NM59378
WELL NAME & NO.: Milagro 28 Federal com No. 2
SURFACE HOLE FOOTAGE: 1950' FNL & 740' FWL
BOTTOM HOLE FOOTAGE Same
LOCATION: Section 28, T. 22 S., R 26 E., NMPM
COUNTY: 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.

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
VRM
Cultural
Construction
Notification
Topsoil
Reserve Pit
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
□ Drilling
☐ Production (Post Drilling)
Well Structures & Facilities
Interim Reclamation
Final Abandonment/Declaration

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.

EXHIBIT NO.	1		

Date of Issue: 2/22/08



Bureau of Land Management, Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cultural and Archaeological Resources

BLM Report No 08-NM-523-371

NOTICE OF STIPULATIONS

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

Project	Milagro 28 Federal Com Number 2 Proposed Well Location and Access Road, and Site LA 51007 Eddy County, No.
Name:	Mexico
Required	1). A 3-day preconstruction call-in notification. Contact BLM Inspection and Enforcement at (505) 234-5977, 5909, or 5958, to establish a construction start date.
Required	2. Professional archaeological monitoring. Contact your project archaeologist, or BLM's Cultural Resources Section at (505) 234-5917, 5967,or 5986, for assistance.
A . 🖂	These stipulations must be given to your monitor at least <u>5 days</u> prior to the start of construction.
в. 🖂	No construction, including vegetation removal or other site prep may begin prior to the arrival of the monitor.
	3. Cultural site barrier fencing. (Your monitor will assist you).
A	A temporary site protection barrier(s) shall be erected prior to all ground-disturbing activities. The minimum barrier(s) shall consist of upright wooden survey lath spaced no more than ten (10) feet apart and marked with blue ribbon flagging blue paint. There shall be no construction activities or vehicular traffic past the barrier(s) at any time.
В. 🗌	A permanent, 4-strand barbed wire fence strung on standard "T-posts" shall be erected prior to all ground-disturbing activities. No construction activities or vehicle traffic are allowed past the fence.
Required	4. The archaeological monitor shall:
А. 🗀	Ensure that all site protection barriers are located as indicated on the attached map(s).
В. 🖂	Observe all ground-disturbing activities within 100 feet of cultural site no. LA 51007 (see exhibit 2].
C. 🗌	Ensure that all reroutes are adhered to avoid cultural site no.(s) LA
D. 🗌	Ensure the proposed is/are located as shown on the attached map(s).
E. 🔲	Submit a brief monitoring report within 30 days of completion of monitoring.
Other:	As per phone conversation with Mickey Young of Mewbourne Oil Company on 2/22/08 a portion of an existing lease road access the Milagro 28 Federal Com Number 2 may require upgrading. A contract archaeologist is required to monitor the road construction that is within LA 51007 or within 100 feet of the site boundary. If subsurface cultural resources are encountered during the monitoring, all activities shall cease and a BLM-CFO archaeologist shall be notified immediately.

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

For assistance, contact BLM Cultural Resources:

Martin Stein (505) 234-5967

Bruce Boeke (505) 234-5917

James Smith (505) 234-598

George MacDonell (505) 234-2228

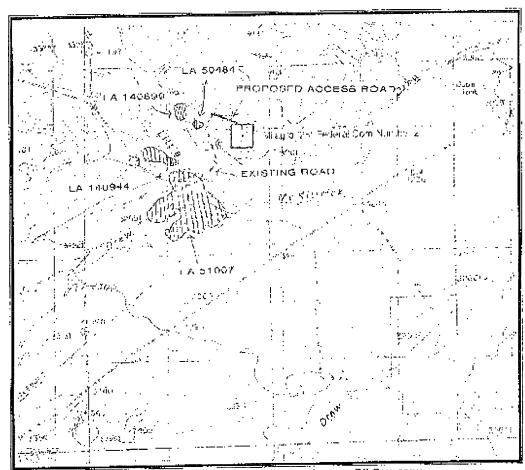


Figure 1: Survey Area Mewbourne Oil Company
Milagro "28" Federal Com Number 2
Proposed Well Location, Access Road, and Site LA 51007
Section 28, T.225, R.26E
USG\$ Kitchen Cove, NM (Prov. Ed. 1985) 7.5' topo map
Eddy County, New Mexico
Scale 1:24,000

NT

Southern New Mexico Archaeological Services, Inc.

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)

CLOSED LOOP SYSTEM, NO EARTHEN PITS.

Visual Resources Management

The proposed project is located within a Class Three Visual Resource Area. The project will be built in a manner to minimize visibility. The proposed project will be an impacting feature to its surrounding natural visual resources.

Painting Requirement

In accordance with notice to lessees (NTL) 87-1 New Mexico, *Painting of Oil Field Facilities to Minimize Visual Impacts*: ALL permanent surface production facilities, including the well-drive control system, treatment, storage, power (except specifically approved electrical transmission lines and poles, or other permanent above-ground facilities not otherwise specifically subject to safety coloring requirements), shall be painted by the holder to blend with the dominant natural color of the surrounding landscape. The paint used shall be one of the "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee, and shall be a <u>flat</u>, <u>non-reflective</u> finish. The color specified for this location is:

Standard Environmental Color: Shale Green Munsell Soil Color Chart Number: # 657

Any exception to this Painting Requirement must be approved by the BLM Authorized Officer in writing prior to implementation.

Surface Mitigation

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

- 1. The proposed construction and scenic impacts will be limited to the approved pad size. Facilities will not be placed within the fill portions of pads so they can be reclaimed.
- 2. Only facilities that solely serve the production from this pad can be added to this action. ie. no compressor station or central storage tanks can be placed on the approved pad.
- 3. Upon completion of the well and installation of the production facilities (if the well is a producer) the pad will be reclaimed back to a minimal size needed for production operations (approximately 50 ft out from the anchors). The pads edges will be recontoured and the extra caliche and pad material will be hauled off-site. After one year, the BLM may require additional site reclamation.
- 4. The reclaimed areas will be grid rolled and reseeded with seed mix as indicated in the Special Drilling Stipulations.

Cave and Karst

Cave/Karst Surface Mitigation

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

Berming:

Tank batteries will be bermed to contain 1 ½ times the content of the largest tank.

Bermed areas will be lined with a permanent 20 mil plastic liner and then lined with a 4 oz. felt liner to prevent tears or punctures in liner.

Closed Mud System Using Steel Tanks with All Fluids and Cuttings Hauled Off.

A closed mud system with steel tanks will be utilized to drill the well. All fluids and cuttings will be hauled off site for disposal. No pits are allowed.

Cave/Karst Subsurface Mitigation

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

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 100 percent occur simultaneously while drilling in any cave-bearing zone, the BLM will be notified immediately by the operator. The BLM will assess the consequences of the situation and work with operator on corrective actions to resolve the problem.

Delayed Blasting:

Any blasting will be phased and time delayed.

Abandonment Cementing:

Upon well abandonment the well bore will be cemented completely from 100 feet below the bottom of the cave bearing zone to the surface.

Record Keeping:

The Operator will track customary drilling activities, including the rate of penetration, pump pressure, weight on bit, bit drops, percent of mud returns, and presence of absence of cuttings returning to the surface. As part of customary record keeping, each detectable void or sudden increase in the rate of penetration not attributable to a change in the formation type should be documented and evaluated as it is encountered.

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 (505) 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. RESERVE PITS

Tanks are required for drilling operations: No Pits.

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

D. 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.

E. 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.

F. 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.

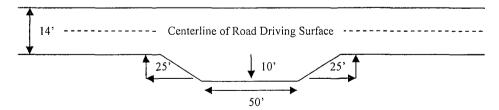
Ditching

Ditching shall be required on the uphill side 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

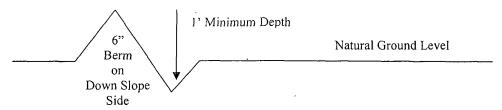


Drainage

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

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

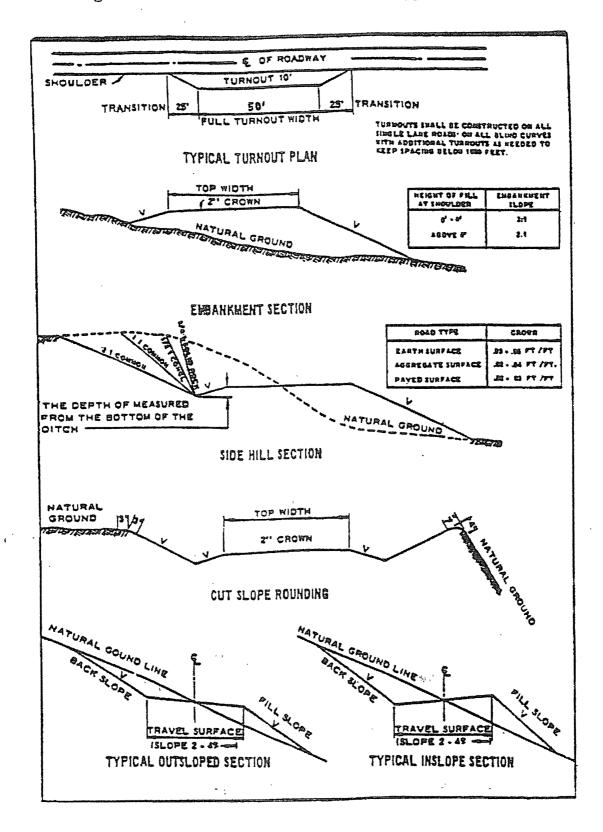
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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

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

Eddy County

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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Canyon formation. If Hydrogen Sulfide is encountered, please report measurements 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

- 1. The 13-3/8 inch surface casing shall be set at 1650 feet within the Artesia Group and below the Capitan Reef and cemented to the surface. Centralizers required on surface casing per Onshore Order 2.III.B.1.f.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 - b. 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. (This is to include the lead cement). Please provide WOC times to inspector for cement slurries.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.
- e. No pea gravel permitted for remedial or fall back remedial.

High cave/karst.

Possible lost circulation in the Capitan Reef.

Possible of high pressure gas bursts in the Wolfcamp and over pressure in the Pennsylvanian Section.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a-d above. **Please** provide WOC times to inspector for cement slurries.
- 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. **Insufficient cement.**

Sundry required for cement design changes.

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.

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. 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.
- e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.
- f. A variance to test the surface casing and BOP/BOPE to the reduced pressure of 1000 psi with the rig pumps is approved.

D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

Aerated mud approved for drilling through the Capitan Reef, air drilling not approved.

E. DRILL STEM TEST

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

WWI 030308

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

VRM Facility Requirement

Low-profile tanks not greater than eight-feet-high shall be used.

IX. INTERIM RECLAMATION & RESERVE PIT CLOSURE

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.

The 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.

Seed Mixture 3, for Shallow 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 authorised 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		<u>lb/acre</u>
Plains Bristlegrass (Setaria magrostachya	<i>i</i>) 1.0	
Green Spangletop (Leptochloa dubia)		2.0
Side oats Grama (Bouteloua curtipendula	•)	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed (Insert Seed Mixture Here)

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.

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.