CD-ARTESIA

ATS-09-517

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

y	1.
1	M

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5.	Lease Serial	No.
	114050	

APPLICATION FOR PERMIT TO DRILL OR REENTER	6 If Indian, Allottee or Tribe Name

la Type of Work. 🖸 DRILL 🔲 REENTER	2			7 If Unit or CA Agreement, Name and No
1b Type of Well Oil Well Gas Well Other	☐ s	ingle Zone 🔲 Multij	ple Zone	8 Lease Name and Well No Quick Draw 14 F Federal #1
2. Name of Operator			-	9 API Well No.
Mewbourne Oil Company - 14744				30015, 5° 13 leb
3a Address	3b Phone No	o. (ınclude area code)		10 Field and Pool, or Exploratory
	575-393-59			Yeso North Saven-River s
4. Location of Well (Report location clearly and in accordance with a	ny State requ	rements! I) UE V	'LU	11 Sec., T, R, M., or Blk. and Survey or Area
At surface 1815' FNL & 1800' FWL Unit F		OCTAGO		
At proposed prod. zone Same		OCT 26 20	uu9	 Sec 14 - T20S - R25E
14. Distance in miles and direction from nearest town or post office*		NMOCD ART	TECIA	12. County or Parish 13 State
16 Miles NW of Carlsbad		TAINIOCD AN	ESIA	Eddy NM
15 Distance from proposed* location to nearest property or lease line, ft	16. No. of A	Acres in lease	17 Spacin	g Unit dedicated to this well
(Also to nearest drig unit line, if any) 1800'	320		40	
18 Distance from proposed location* to nearest well, drilling, completed,	19. Propose	ed Depth	20 BLM/E	BIA Bond No. on file
applied for, on this lease, ft 1200'	3500'		NM1693,	Nationwide
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3430' GL	22. Approx ASAP	timate date work will st	tart*	23 Estimated duration 15
	24. Atta	chments		
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No 1, shall be att	ached to thi	s form.
 Well plat certified by a registered surveyor A Drilling Plan A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 		4 Bond to cover th Item 20 above). 5. Operator certifica	e operation ation. pecific info	s unless covered by an existing bond on file (see
25. Signature	Name	(Printed/Typed)	· · ·	Date
Jacke Lathan	Jacki	e Lathan	•	08/24/09
Title Hobbs Regulatory				
Approved by (Signature) /s/ Don Peterson	Name	(Printed/Typed) ISI Don	Peterso	n Date OCT 2 2 200
Title FIELD MANAGER	Offic			

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon APPROVAL FOR TWO YEARS Conditions of approval, if any, are attached

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

*(Instructions on reverse)

Roswell Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

-DISTRICT I 1525 N. French Dr., Hobbs, NM 88240 DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

Certificate No. Gary L. Jones

BASIN SURVEYS

7977

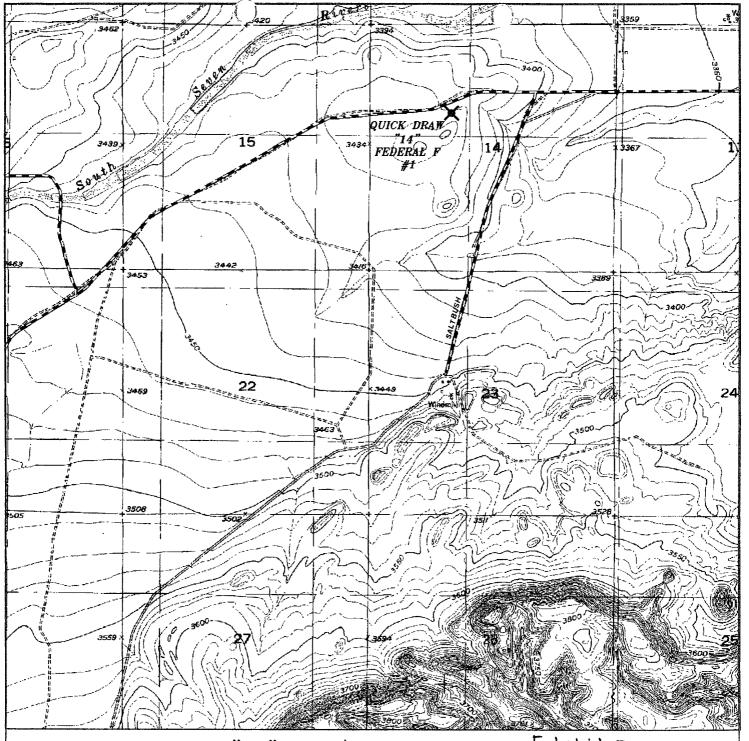
State Lease - 4 Copies Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

DISTRICT IV

F 14 20 S 25 E 1815 NORTH 1800 WEST EDI Bottom Hole Location If Different From Surface	ISTRICT IV 20 S. St. Francis D	r., Santa Fe, l	im 67505	WELL LO	CATION	AND ACRE	AGE DEDICATI	ON PLAT	☐ AMENDED	REPORT
OBSIDE No. 14 Per Federa 1 OBSIDE No. 14 Per Federa 1 OBSIDE No. 14 Per 15 Pe	30-019	3° 3'	7364		Pool Code	Ye	so North		- Comoku	ryjYa
ORED No. The property of the control of the contr	Property (Code			OHICK	- •			Well No	ımber
Surface Location Surface Location Found No. Section Township Eange Lot idn Feet from the North/South line Feet from the Rast/West line Count 14 20 S 25 E 1815 NORTH 1800 WEST ED Bottom Hole Location if Different From Surface or lot No. Section Township Eange Lot idn Feet from the North/South line Feet from the Rast/West line Count 190 Count	OGRID N	<u>)</u>	 		QUICK			<u> </u>	Rleval	ion
Surface Location Surface Location F 14 20 S 25 E 1815 NORTH 1800 WEST ED Bottom Hole Location If Different From Surface or lot No. Section Township Renge Let Idn Feet from the North/South line Feet from the East/West line Count or lot No. Section Township Renge Let Idn Feet from the North/South line Feet from the East/West line Count deficated acress Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I harvely coercify that the information conditioned from the information of much a submard or working interest, or for a state of my publication of the distriction of much a submard or working interest or the distriction of much a submard or working interest, or for a state of the distriction of much a submard or working interest, or for a state of the distriction of the districti					MEWB	-				
Bottom Hole Location If Different From Surface or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line Count deducated Acres Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I have by creitly that the information considered Acres to true and complete to the continuous processing street of the continuous processing consideration state complete in the following the green hale following the green and being the green of the continuous processing content hale following the green of the continuous processing content p		<u> </u>	<u> </u>							
Bottom Hole Location If Different From Surface or lot No. Section Township Range Lot Idm Feet from the North/South line Feet from the Rest/West line Count sedicated Acres Joint or Infill Consolidation Code Order No. HO 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 OPERATOR CERTIFICATION I hereby certify that the information concluded Acres to true and complete to the best of only monitoring on the field eduction. SURFACE LOCATION Lot - N 3275/313.18 Long - N 375/3102.881 NMSTCN - S75/3102.881 NMSTCN - S75/3	L or lot No.	Section	Township	p Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the Rasi/West line Count relicated Acres Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I have by cortify that the information of the best of my knowledge and belief, and the information desired in the local operation of the best of my knowledge and belief, and the information desired in the information objects of the best of my knowledge and belief, and the information desired in the local operation of the information objects of the best of my knowledge and belief, and the information objects of the information objects of the information objects of the information of	F	14	20 5	5 25 E		1815	NORTH	1800	WEST	EDD.
edicated Acress Joint or Infill Consolidation Code Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I have you corright that the information conditions there is the last of my knowledge and teletar, and the theory consolidation solder owns a working that the information of make a mineral or working information or working inform				Bottom	Hole Loc	cation If Diff	erent From Sur	face		
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 OPERATOR CERTIFICATION I hereby certify that the information conceined herein its true and complete to the best of my honouted end better, or the their organization either course a construct with an owner of such an ownering stemars or the construct with an owner of such as a	L or lot No.	Section	Township	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
NQ ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information constained herein to true and complete to the thic organization either come a working interest or unleased without online pursuant to a confusion of the division. SURFACE LOCATION Lot - N 32734'31.81" Lot - N 32734'31.81" NMSPCE - 461848.720 (NAD-27) SURFACE LOCATION Lot - N 573102.981 NMSPCE - M 573102.981 Tackie Lathan Printed Name SURVEYOR CERTIFICATION I hereby certify that the well tooston show on this plat was plotted from field notice of the division and that the same is frue a correct to the best of my belief.	edicated Acre	s Joint o	r Infill	Consolidation	Code Or	der No.			· · · · · · · · · · · · · · · · · · ·	<u></u>
OPERATOR CERTIFICATION I hereby certify that the information conditated herein is true and complete to the best of my throutedge and betlef, and the formet or unlessed mineral interest or the formet of such a mineral or working interest or unlessed mineral interest or the formet of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest or or or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or or working interest, or or or or working interest, or or or or working interest, or	40		1							
OPERATOR CERTIFICATION I hereby certify that the information conditated herein is true and complete to the best of my throutedge and betlef, and the formet or unlessed mineral interest or the formet of such a mineral or working interest or unlessed mineral interest or the formet of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest or or or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or of such a mineral or working interest, or or or working interest, or or or or working interest, or or or or working interest, or	<u>-</u>	WABLE V	TILL BE	ASSIGNED '	TO THIS	COMPLETION	UNTIL ALL INTE	RESTS HAVE BE	EN CONSOLIDA	TED
I hereby certify that the information contained herein is true and complete to the best of my knowledge and bettef, and the thick organization either cums a working interest or unleased interest in the tend the information of such a mineral or working interest or to a voluntary pooling agreement or a computary pooling erder heretofore entered bettef the division. SURFACE LOCATION Loi - N 32*34*31.81* Long - W 104*27*22.19* NMSPCE - 851649.720 (NAD-27) SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plated from field notes of actival surveys made by me or under memory of the desire of the best of my bettef. Date Spreyra MER. Signafure & Spill of 50 Signafure & Spill of 50 Signafure & Spill of 50										
I hereby certify that the information contained herein is true and complete to the best of my knowledge and bettef, and the thick organization either cums a working interest or unleased interest in the tend the information of such a mineral or working interest or to a voluntary pooling agreement or a computary pooling erder heretofore entered bettef the division. SURFACE LOCATION Loi - N 32*34*31.81* Long - W 104*27*22.19* NMSPCE - 851649.720 (NAD-27) SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plated from field notes of actival surveys made by me or under memory of the desire of the best of my bettef. Date Spreyra MER. Signafure & Spill of 50 Signafure & Spill of 50 Signafure & Spill of 50					r —	T		7 00000400	D CEDEVICAS	TON.
contained herein is true and complete to the best of my knowledge and bettef, and the this organization either owns a working instruct or makes of my knowledge and bestef, in the this organization either owns a working instruct or makes of miseral interest in the land including the proposed bottem hole documents produced or a woluntary pooling agreement or a compulsory pooling order heretofore entered bette division. SURFACE LOCATION		1			1	Į.		OPERATO	R CERTIFICAT	ION
the best of my knowledge and belief, and the this organization either own a working interest or unleased unineral interest in the land including his proposed bottom hole location pursuant to a contract with an own a wolking proposed bottom hole location pursuant to a computery pooling agreement or a computery pooling order heretofore entered by the division. SURFACE LOCATION		1			1	1		contained herei	n is true and comp	lete to
SURFACE LOCATION Lot - N 32734'31.81" Long - W 1042'728.19" NMSPCE - E 461649.720 (NAD-27) SURVEYOR CERTIFICATION I hareby certify that the well location show on this plat was plotted from field notes of actual surveys made by me or under me supervison, and that the same is true accorrect to the best of my belief.		ı			1	1		the best of my	knowledge and belief	and that
SURFACE LOCATION Lot - N 32'34'31.81" Long - W 104'27'28.19" NMSPCE - N 573'102.981 NMSPCE - M 573'102.981 NMSPCE		Ì			Ì	i		interest or unie	ased mineral interest	in the
3425.6' 3421.9' SURFACE LOCATION Lot - N 32'34'31.81" Long - W 104'27'28.19" NMSPCE - M 573102.981 (NAD-27) SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes a convent surveys made by me or under me supervison and that the same is true and correct to the best of my belief. Date Surveyor and that the same is true and correct to the best of my belief.		i	5.	?	i	į		l location purgua	nt to a contract with	an owner
SURFACE LOCATION Lat - N 32'34'31.81" Long - W 104'27'28.19" NMSPCE - K 461649.720 (NAD-27) SURVEYOR CERTIFICATION I have by certify that the well location show on this plat was platted from field notes a actual surveys made by me or under m supervison and that the same is true as correct to the best of my belief.		i	<u>∞</u>)	İ	į		compulsory pool	Vina agreement or a	
SURFACE LOCATION Lot - N 373431.81" Long - W 10427'28.19" NMSPCE - N 573102.981 E 461649.720 (NAD-27) SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes of actual surveys made by the or under many supervison and that the asset is true as correct to the best of my belief. Date Surveyed MEX. Signature Date Surveyed MEX. Signature Certify that the well location show on this plat was plotted from field notes of actual surveys made by the or under many supervison and that the asset is true as correct to the best of my belief.				7404.01	<u> </u>	+		the authorn.		
Long - W 104'27'28.19" NMSPCE - N 573102.981 E 461649.720 (NAD-27) SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes a actual surveys made by me or under me supervison and that the same is true as correct to the best of my belief. Date Stivered a MEX. Signature & that of			3425.6	3421.9	SURFAC	E LOCATION		Maria	Lathan &	(Jou)m
NMSPCE— N 573102.981 Add. 1' 3430.9' SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes of actual surveys made by me or under me supervison and that the same is true as correct to the best of my belief. Date Streyd & MEX. Signature & End of Co	1	800'-			Lat — N Lona — W	32°34'31.81" 104°27'28.19"		Signature	PARIA C	Date
SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was platted from field notes a actual surveys made by me or under me supervison and that the same is true as correct to the best of my belief. Date Surveys MEX. Signature & Sal of Co.	·		1	l .	NMSPCE-	N 573102.981 E 461649.720		11-	1 atha	
SURVEYOR CERTIFICATION I hereby certify that the well location show on this plat was plotted from field notes a actual surveys made by me or under no supervison, and that the same is true as correct to the best of my belief. Date Surveyed MEX. Signature & Said of Co.	•	All Annual Control	 3440 1'	 .3430.9'				Printed Nam	e Lachan	
I hereby certify that the well location show on this plat was plotted from field notes of actual surveys made by me or under me supervison, and that the same is true as correct to the best of my belief. Date Sprveyed MEX. Signature k and of Co			0110.1	0100.0		[
on this plat was plotted from field notes of actual surveys made by me or under me supervison, and that the same is true as correct to the best of my belief. Date Sprveyed MEX. Signature & East of Co.					L			SURVEYO	R CERTIFICAT	ION
actual surveys made by me or under me supervison, and that the same is true as correct to the best of my belief. Date Shiveyed & MEX. Signature & East of Co.					* [1		I hereby certify	that the well locate	ion shown
Date Surveyed MEX. Signature & East of Co		ì			ì	1		11		-
Date Shiveyed MEY, Signature & East of Co		ì			I	ì		11		•
Date Spreyof MEX, Co. Signature & Set of Co. Professional Surveyor		ì			Ì	ì		correct to th	e best of my belie	r .
Date Surveyor MEX, Signature & Bad of Professional Surveyor		1			i	1			my 13 vacte	
Signature & said of Professional Surveyor		Ì			İ	·i		Date Surveye	MEX.	/
Professional Surveyor		- — - `			<u> </u>	-		Signature &	6 Co	//
		ì				, 1			Surveyor	<u>. </u>
		į			i	i		/ With	6 CA	W _
		ì			Į	į		1 18		



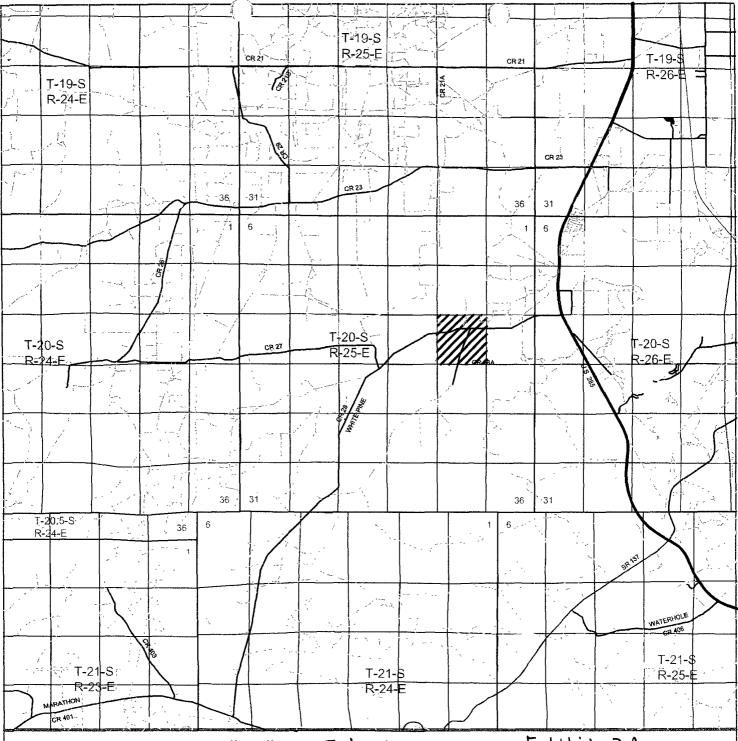
QUICK DRAW "14" F Federal #1 Exhibit 3
Located 1815' FNL and 1800' FWL
Section 14, Township 20 South, Range 25 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393—7316 — Office (575) 392—2206 — Fax basinsurveys.com

	W.O. Nur	mber:	JMS	21574	2000 Marine
Section 1	Survey (Date.	07-2	3-2009	NAME OF TAXABLE PARTY.
	Scale. 1	" = 20	00'		
	Date: 0	7-27-	2009		

MEWBOURNE OIL COMPANY



QUICK DRAW "14" F Federal #1 Exhibit 3A Located 1815' FNL and 1800' FWL Section 14, Township 20 South, Range 25 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fax basinsurveys.com

1	W O. Number: JMS 21574
200200000000000000000000000000000000000	Survey Date [.] 07—23—2009
Section Control	Scale. 1" = 2 Miles
THE REAL PROPERTY.	Date: 07-27-2009

MEWBOURNE OIL COMPANY SECTION 14, TOWNSHIP 20 SOUTH, RANGE 5 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

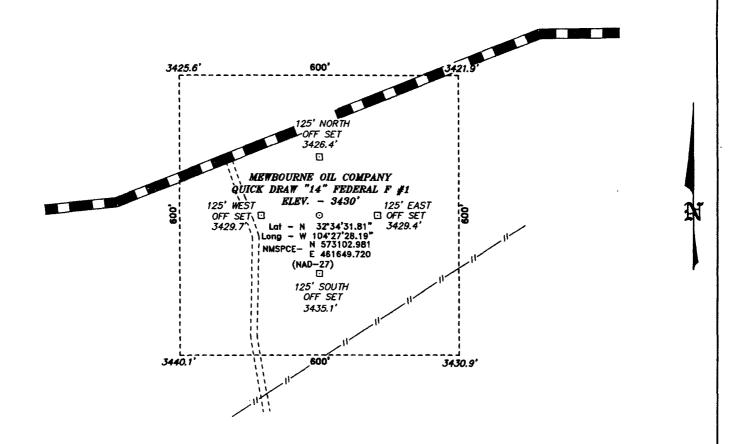


Exhibit 3B

Directions to Location:

FROM THE JUNCTION OF HWY 285 AND CO. RD. WHITE PINE, GO WESTERLY 2.3 MILES TO PROPOSED LOCATION.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 21574 Drawn By: J. SMALL

Date: 07-27-2009 Disk: JMS 21574

200 0 200 400 FEET

SCALE: 1" = 200'

MEWBOURNE OIL COMPANY

THE QUICK DRAW "14" FEDERAL F #1 / WELL PAD TOPO

THE QUICK DRAW "14" F. Fed #1 LOCATED 1815'

FROM THE NORTH LINE AND 1800' FROM THE WEST LINE OF

SECTION 14, TOWNSHIP 20 SOUTH, RANGE 25 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 07-23-2009 | Sheet

Sheet

1 Sheets

<u>Drilling Program</u> Mewbourne Oil Company

Quick Draw 14 F Federal #1 1815' FNL & 1800' FWL Sec 14-T20S-R25E Eddy County, New Mexico

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

San Andres 950'
*Glorietta 2450'
*Yeso 2700'

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

Water

Below 100'

Hydrocarbons

Oil and Gas are anticipated in the above (*) formations. These zones will

be protected by casing and cementing as necessary.

3. Pressure control equipment:

A 2000# WP double ram BOP will be installed after running 8 %" casing. Pressure tests will be conducted and BOPE will remain in use until completion of drilling operations. The BOP will be inspected and operated daily 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. Casing Program: S_{ee} COA

Hole Size	Casing	Wt/Ft.	Grade	Depth 1050	
11"	8 1/8" (new)	24#	J55	0-800	ST&C
7 1/8"	4 ½" (new)	11.60#	J55	0-3500'	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

B. Cementing Program

- Surface Casing: 400 sks Class C cement with 2% CaCl. Yield at 1.34 cuft;/sk.
 Circ to surface.
- Production Casing: 300 sacks Class C light with additives. Yield at 2.71 cuft/sk.
 350 Class H with additives. Yield at 1.28 cuft/sk.
 Circ to surface.

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

5. Mud Program: See COA

Interval 1050'	Type System	Weight	<u>Viscosity</u>	Fluid Loss
<u>Interval</u> 1050 [°] 0'-800°	FW spud mud	8.4-9.0	28	NC
1090 800'-3500'	FW & Sweeps	8.4-8.6	28	NC
IUGC) "				

Drilling Program Quick Draw 14 F Federal #1 Page 2

6. Evaluation Program:

10' samples from intermediate casing to TD Compensated density and dual laterload Neutron.
As needed for evaluations Sàmples:

Logging: Compensated density and dual laterlog or a cased hole Gamma Ray

Coring: Drill Stem Tests: As needed for evaluation

7. Downhole Conditions

COA

Zones of abnormal pressure: None anticipated

Zones of lost circulation: Anticipated in surface and intermediate-holes

Maximum bottom hole temperature: 130 degree F

Maximum bottom hole pressure: 8.4 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 10 days involved in drilling operations and an additional 5 days involved in completion operations on the project.

Exhibit #4

Status of Wells in Immediate Vicinity

Mewbourne Oil Company
Quick Draw 14 F Federal #1
1815' FNL & 1800' FWL
Sec 14-T20S-R25E
Eddy County, New Mexico

Section 10-T20S-R25E

Operator:

Mewbourne Oil Company

Well Name:

Quick Draw 14 E Fed #1

Unit letter:

E

Status:

Producing

Field:

Yeso

Operator:

Mewbourne Oil Company

Well Name:

Quick Draw 14 L Fed #1

Unit letter:

L

Status:

Producing

Field:

Yeso

Operator:

Nearburg Producing Co

Well Name:

Genneco Com 14D #1

Unit letter:

D

Status:

P& A

Field:

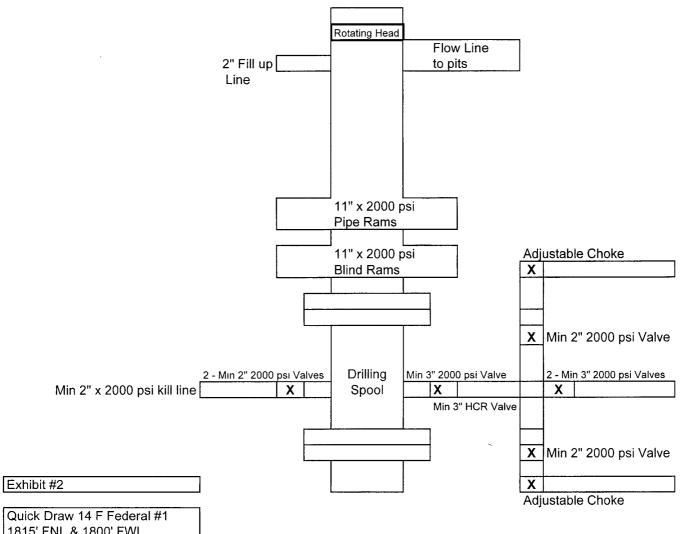
Cemetery Morrow

Exhibit 5 Quick Draw 14 F Federal #1 1815 FNL4 1800 FWL Sec 14 - T20-R25E Eddy Co., NM Close Loop Work Area 38 STEEL PIT STEEL PIT -125' 125' 125'

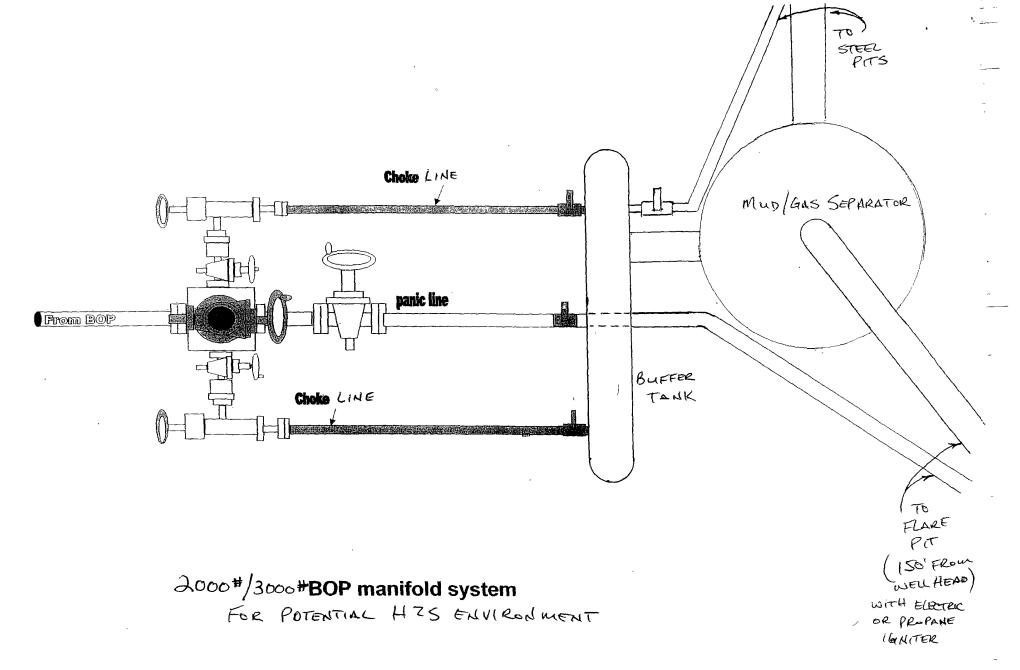
Notes Regarding Blowout Preventer Mewbourne Oil Company

Quick Draw 14 F Federal #1 1815' FNL & 1800' FWL Section 14-T20S-R25E 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 2000 PSI working pressure on 8 \(^5/8\)" csg.
- 3. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 2000 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 and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

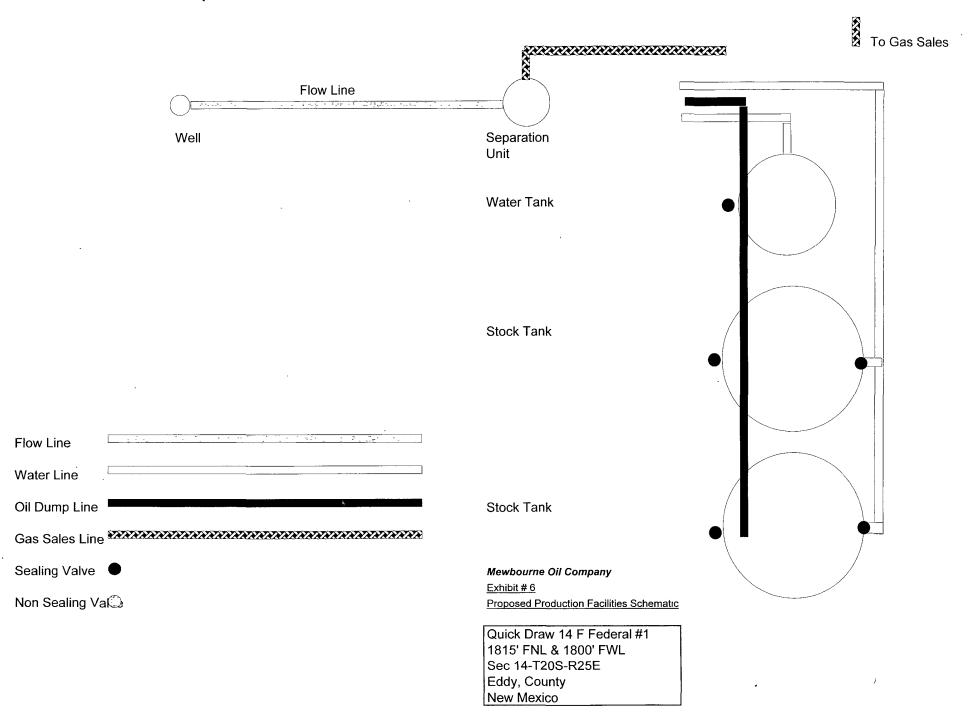


|Quick Draw 14 F Federal #1 | 1815' FNL & 1800' FWL |Sec 14-T20S-R25E |Eddy, County |New Mexico



Quick Draw 14 F Federal #1 Sec 14-T205-R25 E 1815'FNL + 1800' FWL Eddy Co., NM

Proposed Production Facilities Schematic



Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Quick Draw 14 F Federal #1 1815' FNL & 1800' FWL Sec 14-T20S-R25E Eddy County, New Mexico

1. General Requirements

MOC will have on location and working all H2S safety equipment before spudding 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:

- 1. 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.
- 3. 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

- A. Choke manifold with minimum of one adjustable choke and flare line.
- B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit

2. Protective Equipment for Essential Personnel

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

3. Hydrogen Sulfide Protection and Monitoring Equipment

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

4. <u>Visual Warning Systems</u>

- 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. 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.

8. Emergency Phone Numbers

Eddy County Sheriff's Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Clasest Medical Facility Carlehad Medical Center	575 997 4100

Closest Medical Facility - Carlsbad Medical Center 575-887-4100

Mewbourne Oil Company	Hobbs District Office	575-393-5905
_	Fax	575-397-6252
	2 nd Fax	575-393-7259
District Manager	Micky Young	575-390-0999
Drilling Superintendent	Frosty Lathan	575-390-4103
Drilling Foreman	Wesley Noseff	575-441-0729

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Quick Draw 14 F Federal #1 1815' FNL & 1800' FWL Sec 14-T20S-R25E 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:

- A. Exhibit #3 is a road map showing the location of the proposed well. Exhibit #3A is a topographic map showing the location of the proposed well and access road. Existing roads are highlighted in blue proposed roads are highlighted in red.
- B. Directions to location from Carlsbad, NM: Approx 12 miles North on US 285 to White Pine road (CR 28). Turn left (west) and continue west 2.2 miles. Turn left (South) into location.

2. Proposed Access Road:

- A No new 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:

Exhibit #4 shows the proposed well and existing wells within a one mile radius.

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 at the Quick Draw 14 Fed Battery in Unit Letter E, Sec 14, T20S, R25E.
- C. If needed, production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.
- D. If needed, MOC will construct a 3-phase 480 volt overhead electric power line. This power line is On Lease & will follow road to the Quick Draw 14 Fed Battery in Unit Letter E, Sec 14, T20S, R25E. This power line has already been arched.
- E. If needed, MOC will lay a 3" poly flow line with a WP of 80 to 90 psia. This above ground flow line is On Lease & will follow road to the Quick Draw 14 Fed Battery in Unit Letter E, Sec 14, T20S, R25E. This flow line has already been arched.

F. Exhibit #3B shows the map of lease road & all utility lines.

5. Location and Type of Water Supply

The well will be drilled with fresh water and fresh 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 closed loop system.
- B. Drilling fluids will be hauled off as needed.
- C. Water produced during operations will be disposed at an approved disposal.
- 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 diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad, pit area, and location of major rig components are shown.
- B. There will be no reserve pit. A closed loop mud system will be used while drilling this well.
- C. The pad dimension of 205' X 250' has been staked and flagged.
- D. An archaeological survey has been conducted on the proposed location pad & road.

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 entire location will be restored to the original contour as much as reasonable possible. All trash & garbage will be hauled to an appropriate disposal site to assure the location is aesthetically pleasing as reasonably 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. 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: BLM

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 575-393-5905

United States Department of the Interior Bureau of Land Management Carlsbad Field Office 1301 W Grand Avenue Carlsbad, New Mexico 88210

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 NM 114959

Legal Description of Land:

Section 14, T20S, R25E Eddy County, New Mexico.

Location @ 1815' FNL & 1800' FWL.

Formation (if applicable):

Bond Coverage:

\$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature:

ne: MM (Mickey) Young Title: District Manager

Date: August 12, 2009

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route for the Quick Draw 14 F Federal #1, 1815' FNL & 1800' FWL of Sec 14-T20S- R25E, 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: Milling Date: 8/24/09

Print: NM Young

Hobbs District Manager

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company		
LEASE NO.:	NM 114959	* *	- '
WELL NAME & NO.:	1 Quick Draw 14 Federal	*	
SURFACE HOLE FOOTAGE:	1815' FNL & 1800' FWL	*	
BOTTOM HOLE FOOTAGE	1815' FNL & 1800' FWL		
LOCATION:	Section 14, T. 20 S., R 25 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 Provision	S	ì
Permit Expiration		+ 12
	ontology, and Historic	al Sites
Noxious Weeds	ontology, and mistoric	di Sites
🔀 Special Requireme	ents	
Cave/Karst		
V-door: West, 1	Northwest	
Construction		Ţ
Notification		
Topsoil		
•		`
Closed Loop Sy		
Federal Minera	I Material Pits	
Well Pads		, ,
Roads		, , , , , ,
☐ Road Section Diag	ram	3.4
Drilling		
)#7%(A.4	•
Medium Cave		-
Logging requir		* *
Production (Post I	Orilling)	
Well Structures	& Facilities	
Interim Reclamati	on	
Final Abandonme		
L. Britar Wallenine	II WALCERMINATION	

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

Cave/Karst Surface Mitigation

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 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 high 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.

V-door: West, Northwest

• This allows for the well pad to parallel CR #28 and lessen the impacts of cut and fill.

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

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

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 (575) 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.

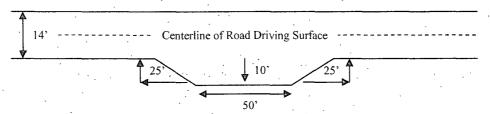
Ditching

Ditching shall be required on 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

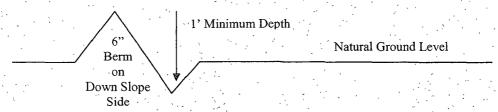


Drainage

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

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

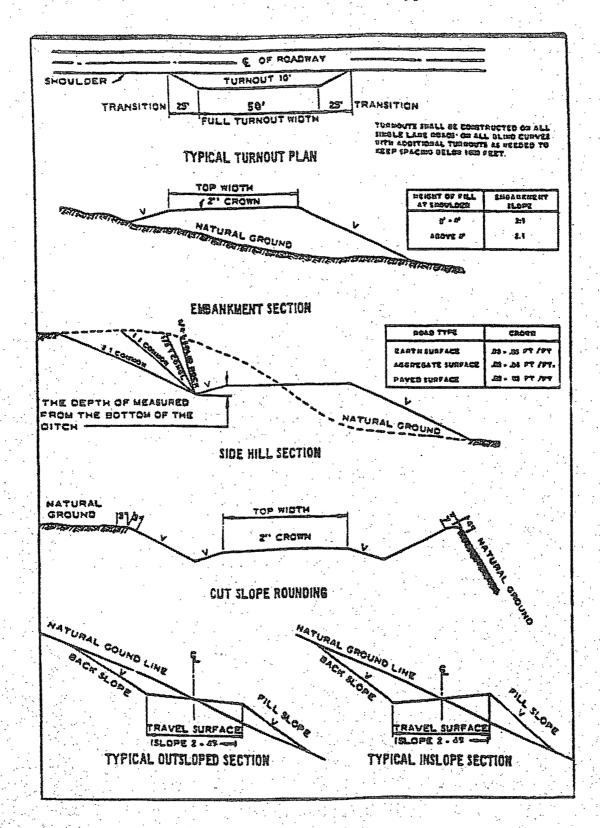
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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. 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. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. The top and bottom of Salt (if present) are to be recorded on the Completion Report.

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.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

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.

Medium cave/karst.

Possible lost circulation in the San Andres formation.

Possible water flows in the San Andres formation and cave areas.

- 1. The 8-5/8 inch surface casing shall be set at approximately 1050 feet within the San Andres Dolomite and cemented to the surface. Water based mud to be used to setting depth.
 - 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 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 is to include the lead cement slurry.
 - 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 cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 4-1/2 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 3. 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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) 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 092809

VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the north side of the well pad to allow for maximum interim recontouring and revegetation of the south side of the well location. If the north side of the well pad is not feasible for production facilities (tanks), then the west side of the well pad can be utilized.

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

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 1, for Loamy 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 regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/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
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds 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.

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.