DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised October 15, 2009

District Office

Submit one copy to appropriate

DISTRICT III OIL CONSERVATION DIVISION

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

1000 Rio Brazos Rd., Aztec, NM 67410 DISTRICT IV 1220 S. St. Francis Dr., Santa Fc. NM 67505

API Number

1301 W. Grand Avenue, Artesia, NM 88210

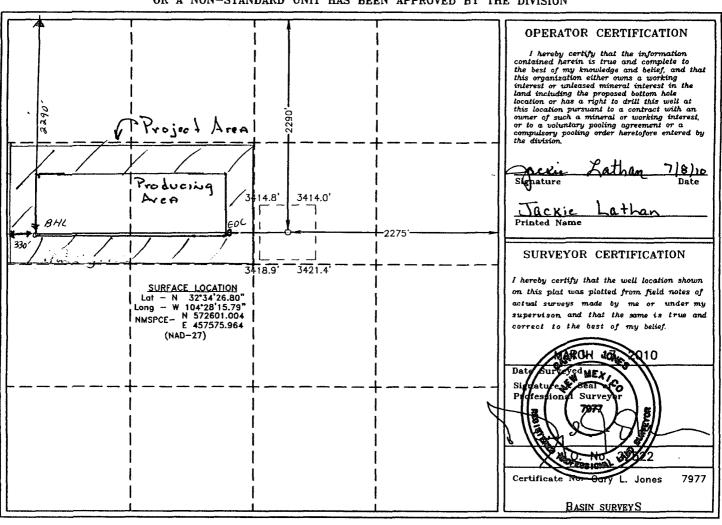
WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code 11 795 CEMETARY: VESSOOI Name

☐ AMENDED REPORT

30-0	915-9	8229	-55	670 "	N S	even hiv	ers blaci	eta Yese	0	
Property		/			Property Nan	ne		Well N	Well Number	
35	346			LIMOU	SINE "15EF"	FEDERAL		1H		
OGRID N	0.				Operator Nan	ne ·		Eleva	tion	
1474	4			MEWB	OURNE OIL	COMPANY		341	5'	
	Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	15	20 S	25 E		2290	NORTH	2275	EAST	EDDY	
			Bottom	Hole Lo	cation If Diffe	erent 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	
E	15	205	25 E		2290	North	330	West	Eddy	
<u> </u>	Dedicated Acres Joint or Infill Consolidation Code Order No.									
<u> 80 </u>									····	

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



UNITED STATES

OCD Artesia

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

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Split Estat

5. Lease Serial No.

М	NM - 147	58		
6.	If Indian,	Allottee	or Tribe	Name

APPLICATION FOR PERMIT TO D	ORILL OR I	REENTER		6. If Indian, Allottee or	Tribe Name	
la. Type of Work: DRILL REENT	7. If Unit or CA Agreen	nent, Name and No.				
1b. Type of Well: Oil Well Gas Well Other		Single Zone	ple Zone	8. Lease Name and Well Limousine 15 FE Fed	(27 5	
2. Name of Operator				9. API Well No.		
Mewbourne Oil Company (- 14744)	lat phase N	- (i - 1 . 1		30-015		
3a. Address	575-393-59	o. (include area code)		10. Field and Pool of Exp N. Seven Ryrs Clerical	Scan (1179	
PO Box 5270 Hobbs, NM 88241 4. Location of Well (Report location clearly and in accordance with				11. Sec., T., R., M., or Bl	k. and Survey or Area	
At surface 2290' FNL & 2275' FEL (Unit G)	i uny otute requ	irements.)				
				I		
At proposed prod. zone 2290 FNL & 330 FWL Unit E				Sec 15 - T20S - R25E	13. State	
14. Distance in miles and direction from nearest town or post office*16 Miles NW of Carlsbad, NM			,	12. County or Parish Eddy	NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330'	16. No. of	Acres in lease	T	ing Unit dedicated to this well		
18. Distance from proposed location*	19. Proposed Depth		20. BLM/BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft. 20' (Applied for)	Helen directional			93, Nationwide		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	22. Approximate date work will start*		23. Estimated duration		
3415' GL	ASAP			15		
	24. Atta	chments				
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas	Order No.1, shall be att	ached to this	form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	. Landa tha	4. Bond to cover the Item 20 above). 5. Operator certification	•	unless covered by an exi	sting bond on file (see	
SUPO shall be filed with the appropriate Forest Service Office).	i Lands, the	6. Such other site s authorized office		rmation and/or plans as m	nay be required by the	
25. Signature	Name	(Printed/Typed)		Da	ite	
Jacke Fathan	Jacki	e Lathan		07	/06/10	
Title						
Hobbs Regulatory	1.5.	(D.) 1/m 1)		10.	te SEP 3 0 201	
Approved by (Signature) /s/ Don Peterson	Name	(Printed/Typed)		Da	TE SEF 3 U ZUN	
Title FIELD MANAGER	Offic	•	RLSBAD FI	ELD OFFICE		
Application approval does not warrant or certify that the applicant holds operations thereon. Conditions of approval, if any, are attached.	legal or equita			VAL FOR TWO		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make			d willfully to	make to any department (or agency of the United	

Roswell Controlled Water Basin

*(Instructions on reverse)

RECEIVED

0CT 04 2010

NMOCD ARTESIA

Approval Subject to General Requirements & Special Stipulations Attached

Kg 10/15/10

SEE ATTACHED FOR CONDITIONS OF APPROVAL

United States Department of the Interior **Bureau of Land Management** Carlsbad Field Office 620 E Greene Street Carlsbad, 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-14758

Legal Description of Land:

Section 15, T-20S, R-25E Eddy County, New Mexico.

Location @ 2290' FNL & 2275' FEL.

Formation (if applicable): Yeso

Bond Coverage:

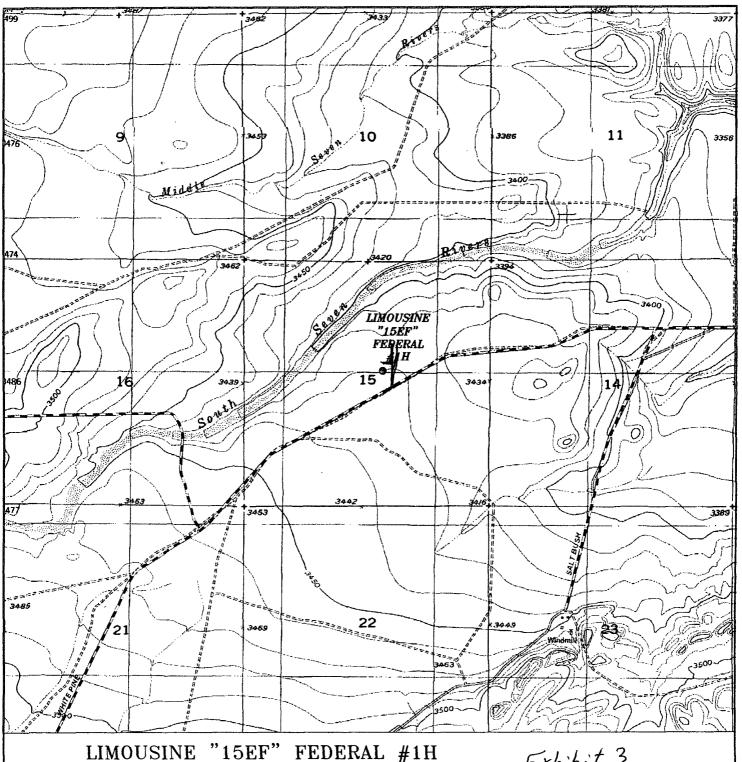
\$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature: Name: NM (Micky) Young
Title: District Manager Title: District Manager

Date: July 2, 2010



LIMOUSINE "15EF" FEDERAL #1H

Located 2290' FNL and 2275' FEL

Section 15, 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

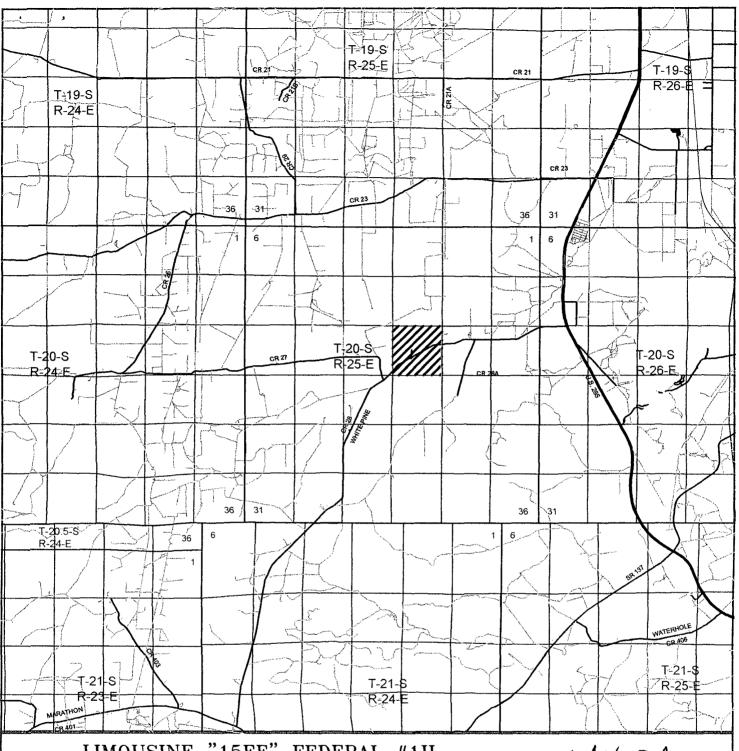
W.O. Number: JMS 22522

Survey Date: 03-17-2010

Scale: 1" = 2000'

Date: 03-24-2010

MEWBOURNE OIL COMPANY



LIMOUSINE "15EF" FEDERAL #1H
Located 2290' FNL and 2275' FEL
Section 15, 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. Number: JMS 22522

Survey Date: 03-17-2010

Scale: 1" = 2 Miles

Date: 03-24-2010

MEWBOURNE OIL COMPANY SECTION 15, TOWNSHIP 20 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

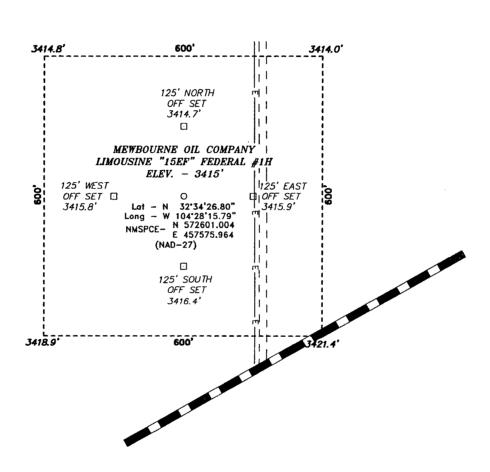
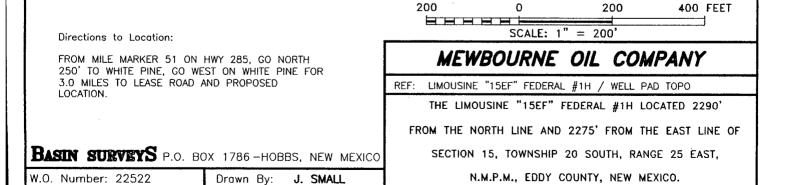


Exhibit 3B

Sheet

Sheets



Survey Date: 03-17-2010

Date:

03-24-2010

Disk: JMS 22522

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* 26	→		1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867 1867	Exhibit #4
F)		₩	. 12	

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

Limousine 15 FE Federal #1H 2290' FNL & 2275' FEL (SHL) Sec 15-T20S-R25E Eddy County, New Mexico

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

San Andres 925'
*Glorietta 2410'
*Yeso 2545'

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 as necessary.

3. Pressure control equipment:

A 2000# WP annular BOP will be installed after running 9 %" 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 ensure mechanical integrity and the inspection will be recorded on the daily drilling report.

Will test the BOPE to 1500# with a third party testing company before drilling below shoe as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 1960' & kick off to horizontal @ 2533' TVD. The well will be drilled to 5000 MD (2507' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casi	ng Program:				
Hole Size	Casing	Wt/Ft.	<u>Grade</u>	Depth	<u>Jt Type</u>
12 1⁄4"	9 % " (new)	36#	J55	0'-950'	LT&C
8 3/4"	5 ½" (new)	17#	J55	0-2900'	LT&C
				4660	f
7 %"	4 ½" (new)	11.6#	J55	2900'- 5000 °	MD LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. *Subject to-availability-of-casing.



B. Cementing Program:

- i. <u>Surface Casing</u>: 350 sacks sacks class "C" w/2% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface.
- ii. Production Casing: Lateral hole will utilize a packer/port system of isolation. An ECP will be placed to isolate the Glorietta form the San Andres. A FO cement tool will be placed immediately above the KOP and cemented w/215 sacks light class "C" w/additives. Yield at 2.45 cuft/sk. And 100 sacks class "C". Yield at 1.32 cuft.sk. Cmt calculated to circulate from FO cementer to surface.

SucoA

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

6. Mud Program:

<u>Interval</u>	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0'-950'	FW spud mud	8.6-9.0	32-34	NA
950'-2000'	Fresh water	8.4-8.6	28-30	NA
2000'- TD	FW w/Polymer	8.5-8.7	32-35	20

7. Evaluation Program:

Lee COA

Samples:

10' samples from surface casing to TD

Logging:

GR from 2000' to TD.

8. Downhole Conditions

Zones of abnormal pressure:

None anticipated

Zones of lost circulation:

Anticipated in surface and intermediate holes

Maximum bottom hole temperature:

100 degree F

Maximum bottom hole pressure:

8.4 lbs/gal gradient or less

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 15 days involved in drilling operations and an additional 10 days involved in completion operations on the project.

Mewbourne Oil Company

Limousine "15" FE Fed #1H 2290' FNL & 2275' FEL Sec 15, T20S, R25E Eddy Co., NM

Supplemental procedure to Drilling Plan Sec 5.B.ii:

Option (1): Plans are to run a packer/port completion system in the lateral production hole. A FO Cementer will be placed at KOP. After casing has been run and the hole is circulated clean, the isolation packers will be set. Drilling rig will set casing slips, ND drilling equipment, NU wellhead, NU completion BOPE/frac valve, RD&MO drilling rig. BOPE will be tested to 1000#. Gauges will be installed and checked daily on the 9 % a run value and on the 5 ½ casing. A pressure relief valve will release excess pressure into a frac tank. A completion rig will MI&RU as soon as possible. Run tubing with cementer opening tool, and circulate cement to surface. Then normal completion operations will begin.

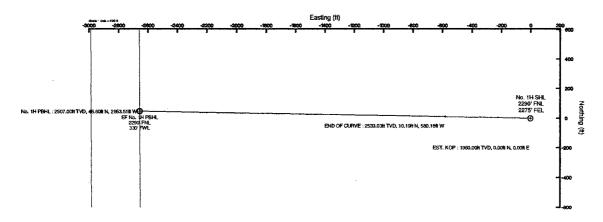
Option (2): If hole conditions do not allow option one to be put into place, the drilling rig will run tubing with opening tool, cement casing to surface, and normal operations will continue.



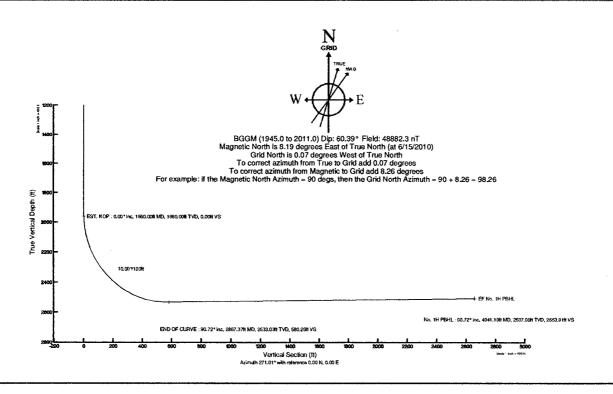
Mewbourne Oil Company Location: Eddy County, NM Field: (Limousine) Sec 15, T20S, R25E Facility: Limousine 15 EF Fed No. 1H Wellbore: No. 1H PWB

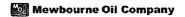


	Well Profile Data							
Design Comment	MD (ff)	inc (°)	Az (9	TVD (tt)	Local N (ff)	Local E (ft)	DLS (%100H)	VS (ff)
Tie On	0.00	0.000	271.006	0.00	0.00	0.00	0.00	0.00
EST. KOP	1960.00	0.000	271.006	1960.00	0.00	0.00	0.00	0.00
END OF CURVE	2867.37	90.719	271.006	2533.03	10.19	-580.18	10.00	580.26
No. 1H PBHL	4941.19	90.719	271.006	2507.00	46.60	-2653.51	0.00	2653.91



Plot reference wellpath is Prelim_1	
True vertical depths are referenced to Rig 63 on No. 1H SHL (KB)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig 63 on No. 1H SHL (KB)	North Reference: Grid north
Rig 63 on No. 1H SHL (KB) to Mean Sea Level: 3429 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Limousine 15 EF Fed No. 1H): -3415 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Victor Hernandez on 6/15/2010





rlanned Wellpath Report Prelim_1 Page 1 of 3



REDER	ENCEWELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Limousine) Sec 15, T20S, R25E	Wellbore	No. 1H PWB
Facility	Limousine 15 EF Fed No. 1H		

REPORT SETUP INFORMATION							
, ,	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0				
North Reference	Grid	User	Victor Hernandez				
Scale	0.999911	Report Generated	6/15/2010 at 2:12:52 PM				
Convergence at slot	0.07° West	Database/Source file	WA_Midland/No1H_PWB.xml				

WELLPATH LOCATION							
	Local coo	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude	
Slot Location	0.00	0.00	457575.96	572601.00	32°34'26.801"N	104°28'15.788"W	
Facility Reference Pt			457575.96	572601.00	32°34'26.801"N	104°28'15.788"W	
Field Reference Pt			457834.80	573900.26	32°34'39.661"N	104°28'12.783"W	

WELLPATHEDATUM			
Calculation method	Minimum curvature	Rig 63 on No. 1H SHL (KB) to SL	14.00ft
Horizontal Reference Pt	Slot	Rig 63 on No. 1H SHL (KB) to Mean Sea Level	3429.00ft
Vertical Reference Pt	Rig 63 on No. 1H SHL (KB)	SL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig 63 on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	271.01°



Planned Wellpath Report Prelim_1 Page 2 of 3



REDER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Limousine) Sec 15, T20S, R25E	Wellbore	No. 1H PWB
Facility	Limousine 15 EF Fed No. 1H		

WELLI	PATH DA						trapolate					
MD [ft]	Inclination [°]	Azimuth [°]	TVD [n]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	271.006	0.00	0.00	0.00	0.00	457575.96	572601.00	32°34'26.801"N	104°28'15.788"W	0.00	Tie On
1960.00	0.000	271.006	1960.00	0.00	0.00	0.00	457575.96	572601.00	32°34'26.801"N	104°28'15.788"W	0.00	EST. KOP
2060.00†	9.998	271.006	2059.49	8.70	0.15	-8.70	457567.26	572601.16	32°34'26.802"N	104°28'15.890"W	10.00	
2160.00†	1	271.006		34.55	0.61	-34.54	457541.43	572601.61	32°34'26.806"N	104°28'16.192"W	10.00	
2260.00	29,994	271.006	2246.48	76 75	1.35	-76.74	457499:24	572602.35	to be the first of	104°28'16.685"W	10.00	
2360.00*	39.992	271.006	2328.30	134.02	2.35	-134.00	457441.97	572603.36	32°34'26.822"N	104°28'17.354"W	10.00	
2460.00†	49.990	271.006	2398.93	204.63	3.59	-204.60	457371.38	572604.60	32°34'26.834"N	104°28'18.179"W	10.00	
2560.00†	59.988	271.006	2456.24	286.43	5.03	-286.39	457289.60	572606.03	32°34'26.847"N	104°28'19.135"W	10.00	
2660.00†		271.006		376.94	6.62	-376.88	457199.12	572607.62	32°34'26.862"N	104°28'20.193"W	10.00	
2760.001	79.984	TO PROPERTY OF THE PARTY OF THE	A STATE OF THE PARTY OF THE PAR	Description Company and the	8.31	473.33	457102.68		32°34'26'877"N	104°28'21'320"W	10.00	
2860.00†	89.982	271.006	2533.07	572.89	10.06	-572.80	457003.21	572611.06	32°34'26.893"N	104°28'22.482"W	10.00	
2867.37	90.719	271.006	2533.03	580.26	10.19	-580.18	456995.84	572611.19	32°34'26.894"N	104°28'22.568"W	10,00	END OF CURVE
2960.00†	90.719	271.006	2531.86	672.88	11.82	-672.78	456903.24	572612.82	32°34'26.909"N	104°28'23.650"W	0.00	
3060.00†		271.006		772.88		-772.76	456803.28	572614.57	32°34'26.925"N	104°28'24.819"W	0.00	
3160:00	90.719	271.006	2529,35	872.87	15:33	-872.73	456703.31	572616:33	-32°34'26'941"N	£104°28'25'987;"W	0.00	
3260.00	90.719	271.006	2528.10	972.86	17.08	-972.71	456603.34	572618.08	32°34'26.957"N	104°28'27.155"W	0.00	
3360.00†	90.719	271.006	2526.84	1072.85	18.84	-1072.69	456503.37	572619.84	32°34'26.973"N	104°28'28.324"W	0.00	
3460.00†	90.719	271.006	2525.59	1172.85	20.59	-1172.66	456403.41	572621.60	32°34'26.989"N	104°28'29.492"W	0.00	·
3560.00†	90.719	271.006	2524.33	1272.84	22.35	-1272.64	456303.44	572623.35	32°34'27.006"N	104°28'30.660"W	0.00	
3660.00†	90.719	1900-100-100-100-100-100-100-100-100-100	A STATE OF THE PARTY OF THE PAR	TOTAL CONTROL OF THE PARTY OF T	24.11	1372.62	456203.47	572625 11	32°34'27.022"N	104°28'31'828"W	. 0.00	
3760.00	90.719	271.006	2521.82	1472.82	25.86	-1472.59	456103.50	572626.86	32°34'27.038"N	104°28'32.997"W	0.00	
3860.00†		271.006		1572.81	27.62	-1572.57	456003.54	572628.62	32°34'27.054"N	104°28'34.165"W	0.00	
3960.00†	1	271.006		1672.81	29.37	-1672.55	455903.57	572630.37	32°34'27.070"N	104°28'35.333"W	0.00	
4060.00†	formation and the second	271.006	2518.06	1772.80		-1772.52	455803.60	572632.13	32°34'27.086"N	104°28'36.502"W	0.00	
4160.00	90.719	271.006	2516.80	1872.79	32!88	-1872.50	455703.63	572633.89	%32°34'27.102"N	#104%28/37/670#W	0.00	4.0
4260.00†	90.719			1972.78	34.64	-1972.48	455603.66	572635.64	32°34'27.118"N	104°28'38.838"W	0.00	
4360.00†	90.719	271.006	2514.29	2072.77	36.40	-2072.46	455503.70	572637.40	32°34'27.134"N	104°28'40.007"W	0.00	
4460.00†	Larran La			2172.77	38.15	-2172.43	455403.73	572639.15	32°34'27.150"N	104°28'41.175"W	0.00	
4560.00†		271.006			39.91	-2272.41	455303.76	572640.91	32°34'27.166"N	104°28'42.343"W	0.00	
4660.001	90.7/19	271.006	2510.53	2372.75	41.66	£2372:39	455203.79	572642:66	32°34'27.182"N	104°28'43.511"W	-0.00	

Mewbourne Oil Company

rlanned Wellpath Report Prelim_1 Page 3 of 3

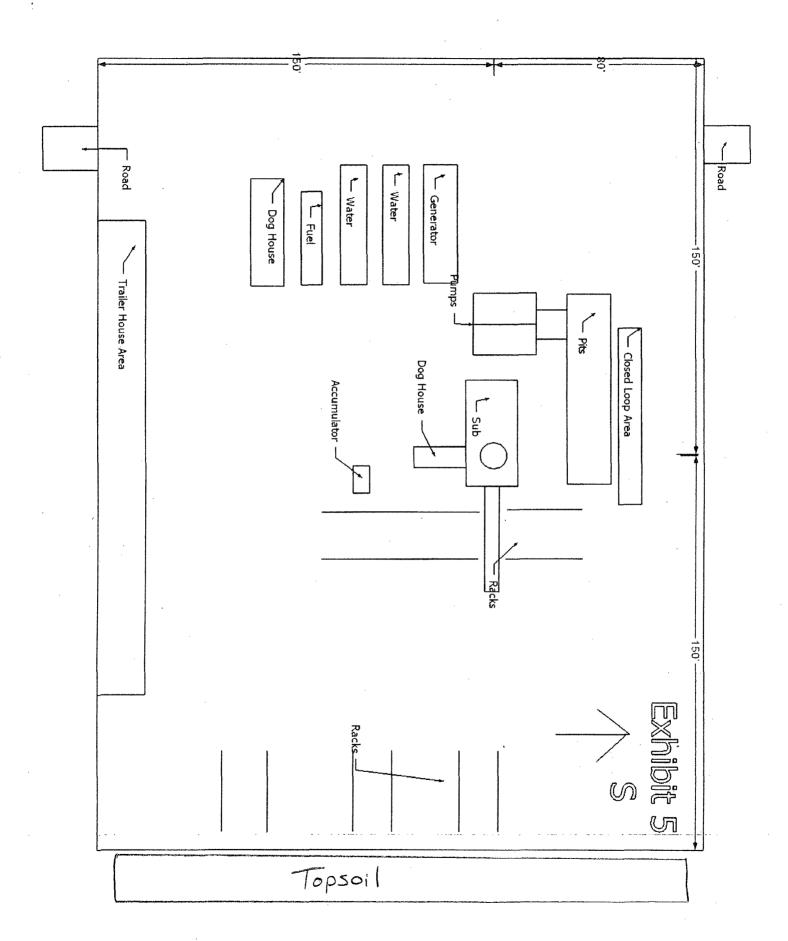


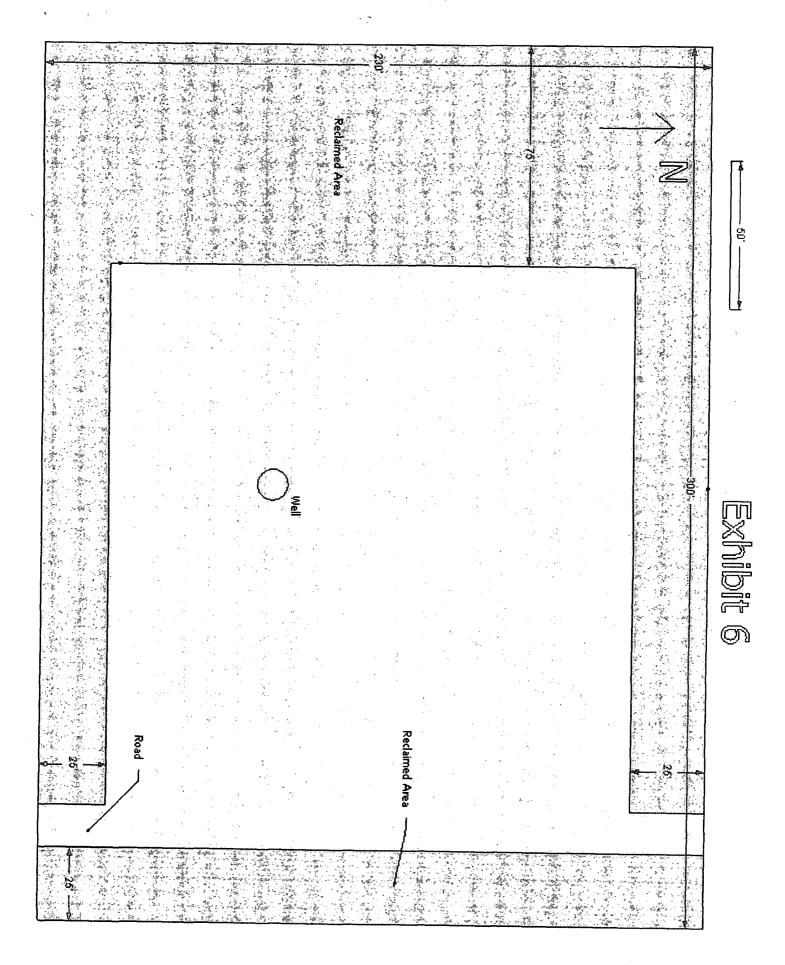
REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Eddy County, NM	Well	No. 1H
Field	(Limousine) Sec 15, T20S, R25E	Wellbore	No. 1H PWB
	Limousine 15 EF Fed No. 1H		

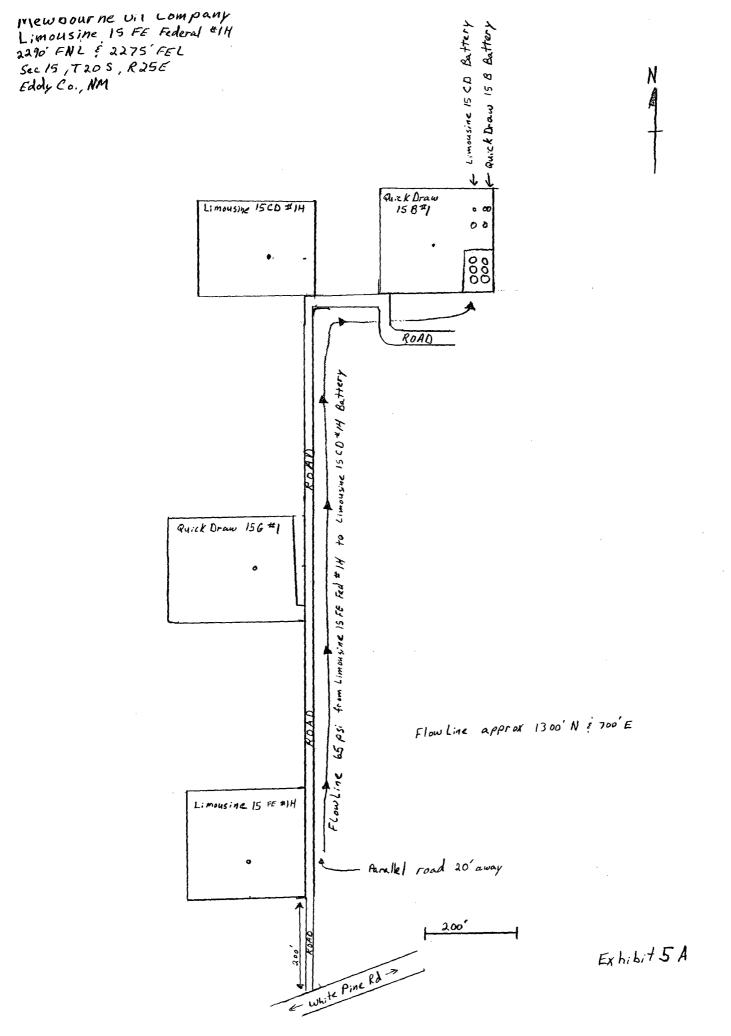
WELLP	ATH DA	TA (33 s	stations)	† = in	terpol	lated/exti	rapolated	station				
MD [n]	Inclination [°]	Azimuth [°]	TVD [N]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4760.00*	90.719	271.006	2509.27	2472.74	43.42	-2472.36	455103.83	572644.42	32°34'27.198"N	104°28'44.680"W	0.00	
4860.00†									32°34'27.214"N		0.00	
4941.19	90.719	271.006	2507:00 ¹	2653.91	46.60	-2653.51	454922.70	572647.60	32°34'27.227"N	104°28'46.797"W	0.00	No. 1H PBHL

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) EF No. 1H PBHL	4941.19	2507.00	46.60	2653.51	454922:70	572647.60	32°34'27.227"N	104°28'46.797"W	point

SURVEY PRO	GRAM Ref	Wellbore: No. 1H PWB	Ref Wellpath: Pr	elim_1	
Start MD [ft]	End MD [ft]	Positional Uncerta	ninty Model	Log Name/Comment	Wellbore
14.00	4941.19	NaviTrak (Standard)			No. 1H PWB





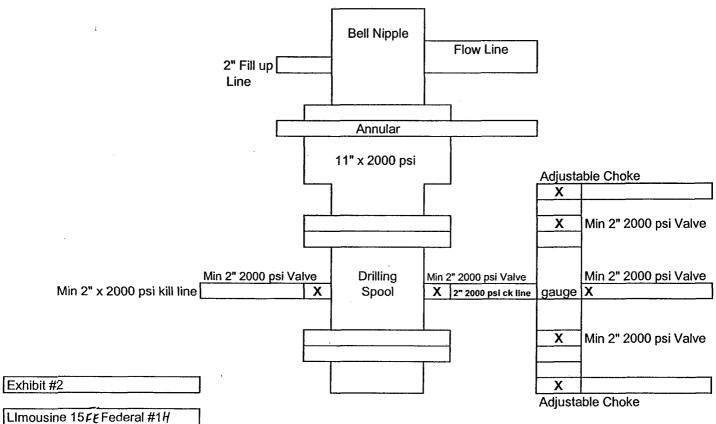


Notes Regarding Blowout Preventer Mewbourne Oil Company

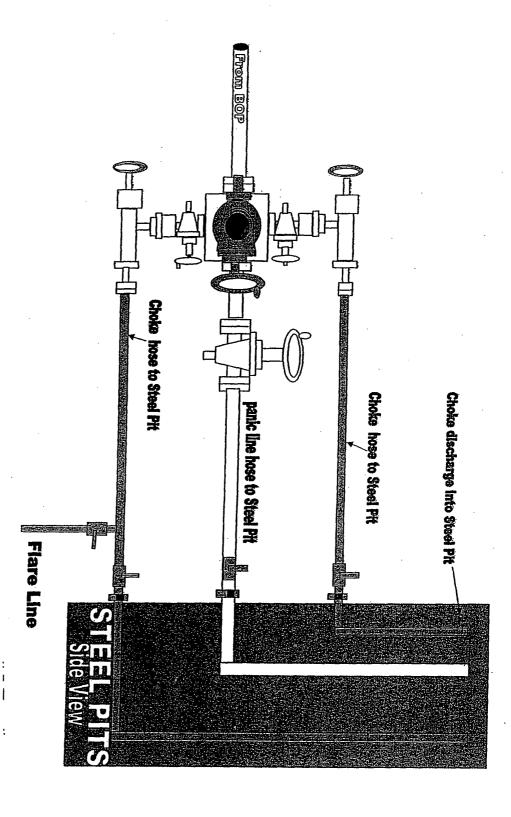
Limousine "15" FE Federal Com #1H 2290' FNL & 2275' FEL (SHL) Sec 15-T20S-R25E Eddy County, New Mexico

- I. 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.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 9 5/8" casing.
- III. 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.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

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.



LImousine 15FF Federal #1H 1190' FNL & 1175 FFL Sec 15-T20S-R25E Eddy, County New Mexico



ڪوم #/3مهه#BOP manifold system

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company Limousine 15 FE Federal #1H 2290' FNL & 2275' FEL Sec 15-T20S-R25E 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 before the Yates formation 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

- 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
- D. Auxiliary equipment including annular type blowout preventer.

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. 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. 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
Closest Medical Facility - Columbia Medical Co	enter of Carlsbad 575-492-5000

 Mewbourne Oil Company
 Hobbs District Office
 575-393-5905

 Fax
 575-397-6252
 575-393-7259

 District Manager
 Micky Young
 575-390-0999

Ay 1 dung 3/3-370-0777
ty Lathan 575-390-4103
ley Noseff 575-441-0729
rge Smith 575-390-4365

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Limousine "15" FE Federal #1H
2290' FNL & 2275' FEL (SHL)
Sec 15-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. Existing roads are highlighted in black and proposed road is highlighted in blue. Exhibit #3A is a topographic map showing the location of the proposed well and access road. Existing and proposed roads are highlighted in black.
- B. Directions to location: From Carlsbad on US 285, north 12 miles to White Pine Rd. Turn left (west) 2 ½ miles to lease road. Turn right (north) ¼ mile to location.

2. Proposed Access Road:

- A No new road will be needed.
- B. Mewbourne Oil Co. will cooperate with other operators in the maintenance of lease roads.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of the well site. 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 on the north side of well pad. Will lay an above-ground poly pipe flowline approx 1300 feet north (20' east of lease road) and 700 feet east (20' south of lease road) paralleling the lease road to an existing facility located at the Mewbourne Oil Co. Quick Draw 15 CD battery location. Electricity exists at edge of location.
- C. No production vessels will be placed on this location. Puming unit 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 hauled to CRI permit# NM-010006.
- B. Water produced during operations will be hauled to Exxon #1 SWD permit# 180, or another permitted SWD in the area.
- C. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- D. Current regulations regarding the proper disposal of human waste will be followed.
- E. 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 and location of major rig components are shown. 300
- B. The pad dimension of 230' x 250' has been staked and flagged.
- C. An archaeological survey is in the process of being conducted on the proposed location pad.

TEN 9/13/10

10. Plans for Restoration of Surface

- A. Upon cessation of the proposed operations, if the well is abandoned, the location and road surfacing material will be removed. The entire location will be restored to the original contour as much as reasonable possible using stockpiled top soil. All trash and garbage 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. Any additional caliche required for production facilities will be obtained from the area shown in exhibit #6 as interim reclamation.
- D. 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.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY Limousine 15 FE Federal 4 #1H Page 3

11. Surface Ownership:

The surface is owned by Chrystine Anderson Willard, et al., P.O. Box 1175, Artesia, NM 88211-1174. Phone# (575) 746-9211. Steve Wilard (a representative of the owners) has agreed to the proposed surface use plans.

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

Mewbourne Oil Company

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

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 2 day of July, 2010.
Name: NM Young
Signature: 17 M Young by Jackie Lathan
Position Title: Hobbs District Manager
Address: PO Box 5270, Hobbs NM 88241
Telephone: <u>575-393-5905</u>
E-mail: myoung@mewbourne.com

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Co	
LEASE NO.:	NM14758	
WELL NAME & NO.:	1H Limousine 15 FE Federal	
SURFACE HOLE FOOTAGE:	2290' FNL & 2275' FEL	
BOTTOM HOLE FOOTAGE	2290' FNL & 330' FWL	
LOCATION:	Section 15, T. 20 S., R 25 E., NMPM	
COUNTY:	Eddy County, New Mexico	

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

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Archaeology, Paleontology, and Historical Sites	
Noxious Weeds	
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Hydrology	
Cave/Karst	
⊠ Construction	
Notification	
Topsoil	
Closed Loop System	
Federal Mineral Material Pits	
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Road Section Diagram	
☑ Drilling	
Logging Requirements	
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Waste Material and Fluids	
☑ Production (Post Drilling)	
Well Structures & Facilities	
Pipelines Pipelines	
Interim Reclamation	
Final Abandonment & Reclamation	

I. GENERAL PROVISIONS

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

II. PERMIT EXPIRATION

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

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

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

IV. NOXIOUS WEEDS

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

V. **SPECIAL REQUIREMENT(S)**

Bureau of Land Management, Carlsbad Field Office

620 E. Greene Street Carlsbad, NM 88220

Cultural and Archaeological Resources

Conditions of Approval

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

Date of Issue: 7/9/2010

BLM Report No.:

10-NM-523-421

Project Name: Limousine 15FE Federal Number 1H Location, Eddy County, New Mexico

1. Professional archaeological monitoring. Contact your project archaeologist.

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

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

2. The archaeological monitor

Observe all initial ground-disturbing activities for the Limousine 15FE Federal Number 1H.

Ensure that all construction, vehicles remain outside of cultural site no. LA 139067.

Other

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

For assistance, contact BLM Cultural Resources: Bruce Boeke (575) 234-5917

Hydrology: Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

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:

海水湖 计分别 人名意西斯特 经银行工物 建铁矿 医电流电影 医牙髓

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.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. 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.

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 in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 6 inches in depth. The topsoil 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

Payment shall be made to the BLM prior to removal of any federal mineral materials. 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 twenty (20) 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

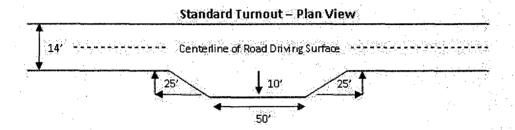
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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:

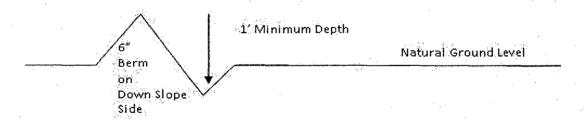


Drainage

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

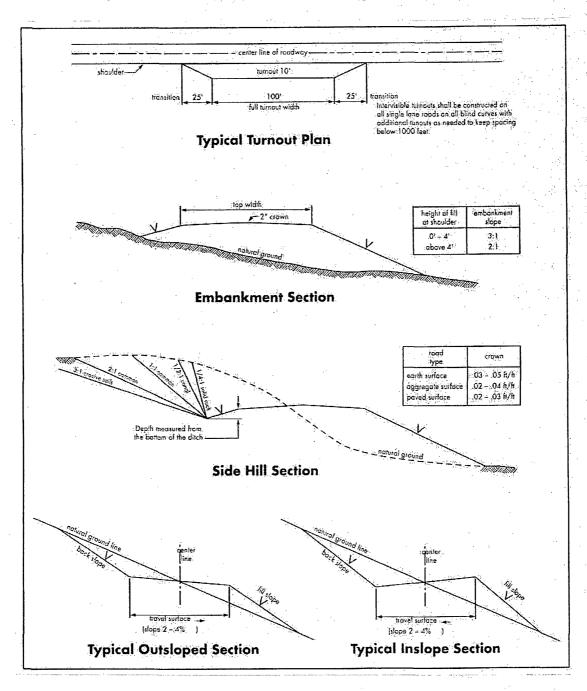
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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



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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 the area, 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. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies.

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 prior to drilling out 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. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. 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.

HIGH CAVE/KARST – CONTINGENCY CASING WILL BE REQUIRED IF LOST CIRCULATION OCCURS WHILE DRILLING THE SURFACE HOLE. THE SURFACE HOLE WILL HAVE TO BE REAMED AND A LARGER CASING INSTALLED. IF LOST CIRCULATION OCCURS WHILE DRILLING THE 8-3/4" AND 7-7/8" HOLE, THE CEMENT PROGRAM FOR THE 5-1/2" AND 4-1/2" CASING WILL NEED TO BE MODIFIED AND THE BLM IS TO BE CONTACTED PRIOR TO RUNNING THE CASING. A MINIMUM OF TWO CASING STRINGS CEMENTED TO SURFACE IS REQUIRED IN HIGH CAVE/KARST AREAS. THE CEMENT MUST BE IN A SOLID SHEATH THEREFORE, ONE INCH OPERATIONS WILL NOT BE PERMITTED.

Possible lost circulation in the San Andres.

- 1. The 9-5/8 inch surface casing shall be set at approximately 950 feet and cemented to the surface. Surface casing to be set in a competent bed within the San Andres.
 - 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. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - 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 5-1/2 & 4-1/2 inch production casing is:
 - a. First stage to DV tool, cement shall:
 - ☐ Cement not required Packer system to be used.

If Option 1 is used, BLM is to be notified of ALL rig moves, and is to be contacted IMMEDIATELY if any excess pressure is discovered. If Option 2 is used, contact the BLM to prevent anticipating rig moves.

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- b. Second stage above DV tool, cement shall:
- 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. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips or where the float does not hold, the minimum wait time before cut-off is eight hours after bumping the plug or when the cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. BOP/BOPE testing can begin after the above conditions are satisfied.
 - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) prior to initiating the test.
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. 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.

e. 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.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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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

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the APD and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.

Acts of God.

c.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.
- 6. The authorized right-of-way width will be 25 feet. 14 feet of the right-of-way width will consist of existing disturbance (existing lease roads) and the remaining 11 feet will consist of area adjacent to the disturbance. All construction and maintenance activity will be confined to existing roads.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.
- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless

approved by the Authorized Officer.

- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder 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 will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

IX. 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.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation 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 that is free of contaminants 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.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

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