Form 3160-3 (September 2001)

UNITED STATES Split Estate DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ATS - 10 - 373 FORM APPROVED OMB No 1004-0136 Expires January 31, 2004

Addish 1222010

RECEIVED

J.	LC	asc	30	1141	140	

NMOCD ARTESIA 6. If Indian, Allottee or Tribe Name

				- 1	
MV	25953	&	NM	93197	7

Al	PPLICATION FOR	R PERMIT TO DE	RILL OR F	REENTER			0. 11 11101111, 111101100			
la. Type of Work:	☑ DRILL	REENTE	₹				7. If Unit or CA Agreement, Name and No.			No.
1b. Type of Well:	🖸 Oil Well 🔲 Gas W	ell 🗖 Other		Single Zone	☐ Multip	ole Zone	8. Lease Name and We Willow Lake 35 Fed	1	2H (:	297°
2. Name of Operator							9. API Well No.			~
Mewbourne Oil Com	ipany - 14744					<u>.</u>	30-019	5-3	-810	<u>6</u>
3a. Address			3b. Phone N	o. (include a	rea code)		10. Field and Pool, or E	• 1	•	
O Box 5270 Hob	bs, NM 88241		575-393-59	905			Willow Lake Delawa			
·	Report location clearly a FSL & 370' FWL (SL	/	ny State requ	urements. *)			11. Sec., T., R., M., or I	31k. and	Survey or	Area
At proposed prod.	zone 330' FNL & 370'	FWL (BHL) Unit D)				Sec 35 - T24S - R28I	E		
	nd direction from nearest						12. County or Parish		13. Stat	e
miles South of Lov	ring, NM		•				Eddy		NM	
15. Distance from proportion to nearest property or lease lin (Also to nearest drig	e, ft.			Acres in leas	e	_	Unit dedicated to this w	ell		
18. Distance from propo		·	19. Propose	ed Denth		160 20 RIM/R	IA Bond No. on file			
to nearest well, drill	ing, completed,		9317' MD	od Dopin		ZO. DEMID	IA Bolla No. oli Ilic			
applied for, on this le	ease, ft. 2980'		4844' TVD)		NM1693,	Nationwide			
21. Elevations (Show v	whether DF, KDB, RT, C	L, etc.)	22. Approx	imate date v	vork will st	art*	23. Estimated duration			
2981' GL			ASAP				40			
			24. Atta	chments						
The following, completed	d in accordance with the	requirements of Onshor	e Oıl and Gas	Order No. 1,	shall be atta	ached to this	form:	†		
 Well plat certified by A Drilling Plan. A Surface Use Plan (SUPO shall be filed to 	a registered surveyor. (if the location is on Na with the appropriate Fore	tional Forest System I st Service Office).	Lands, the	Item 5. Opera 6. Such	20 above). tor certifica	tion. Decific info	unless covered by an e			·
25. Signature	^		Name	(Printed/Ty	ped)			Date		==
OR ON.	· Lath	M n)		e Lathan			c	05/30/10	0	
Title Hobbs Regulatory		<i></i>								
Approved by (Signature)	/s/ Do	on Peterson	Name	e (Printed/Ty	ped)		Į. Į	AUG	10	2010
FIELD	MANAGER		Offic				D OFFICE			
Application approval doe perations thereon Conditions of approval, i		nat the applicant holds le	egal or equita	ble title to th	ose rights in	the subject l	ease which would entitle APPROVAL F	1		
States any false, fictitiou	s or fraudulent statements	Section 1212, make it or representations as to	a crime for a any matter v	ny person kr vithin its juris	owingly and	d willfully to	make to any departmen	t or agen	cy of the	United
'(Instructions on reverse)		, ,		. /	/				
Carlsbad Cont	trolled Water Ba	sin	K	2 8/	1261	10				

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

SEE ATTACHED FOR CONDITIONS OF APPROVAL DISTRICT I 1625 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 15, 2009

Submit one copy to appropriate District Office

DISTRICT III

35

М

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe. NM 87505

OIL CONSERVATION DIVISION

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

AMENDED REPORT

EDDY

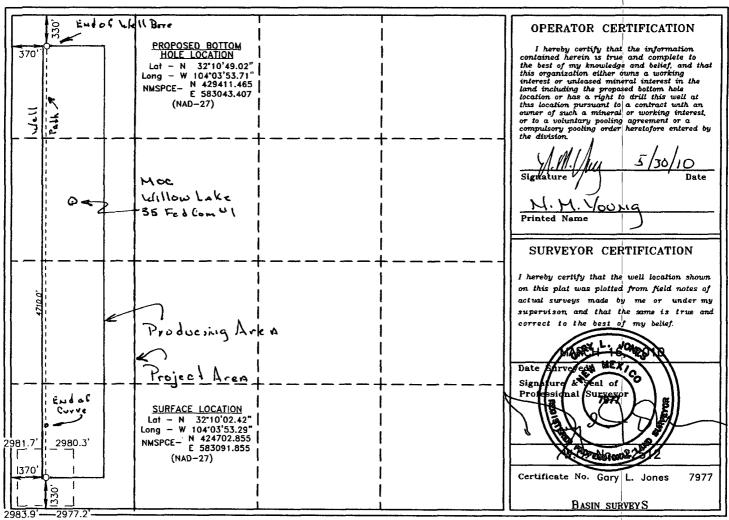
API Number		Pool Code Pool Name			Pool Name			
30-015-	30106	96855	lal:1	100 Lake	Delawar	و ۱۱۵		
Property Code		Property Name						
29788		WILLOW LAKE "35" FEDERAL COM						
OGRID No.		Oţ	erator Name			Elevation		
12774		MEWBOURNE OIL COMPANY					2981'	
		Sur	ace Locati	ion				

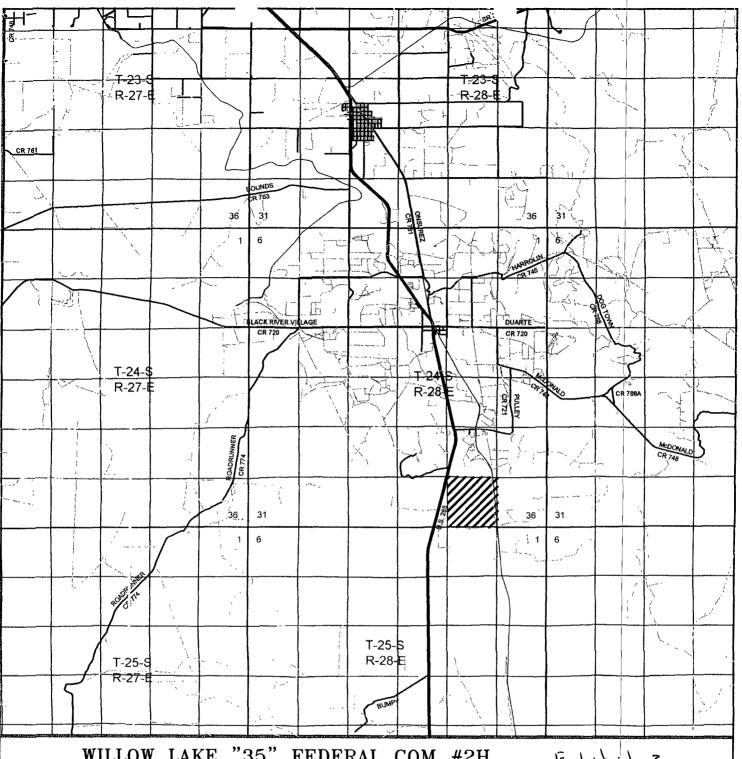
24 S 28 E WEST 330 SOUTH 370

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
D	35	24 S	28 E		330	NORTH	370	WEST	EDDY		
Dedicated Acre	Dedicated Acres Joint or Infill Consolidation Code Order No.										
160											

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





WILLOW LAKE "35" FEDERAL COM #2H

Located 330' FSL and 370' FWL

Section 35, Township 24 South, Range 28 East,

N.M.P.M., Eddy County, New Mexico.



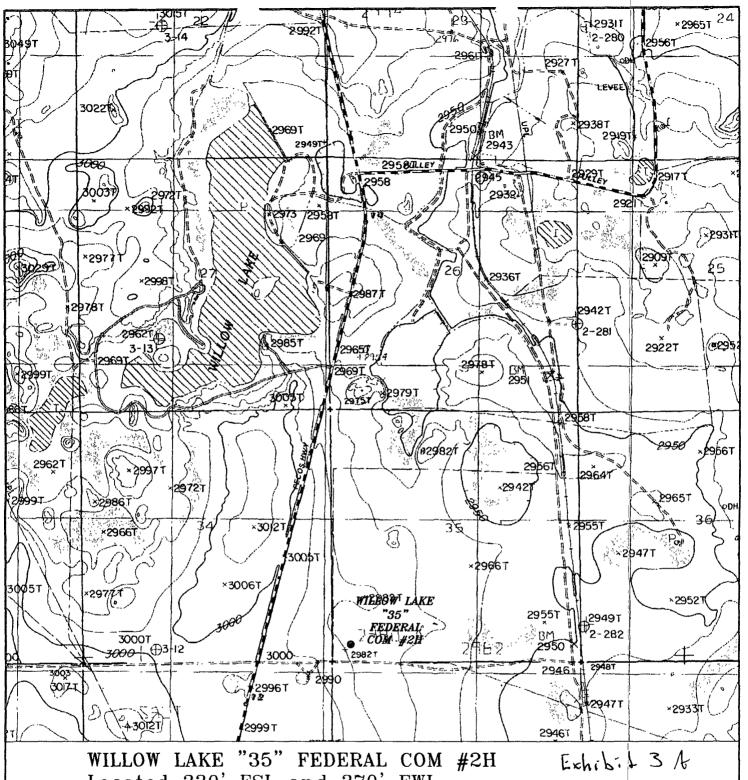
P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W O. Number: JMS 22512

Survey Date: 03-16-2010

Scale: 1" = 2 Miles

Date: 03-17-2010

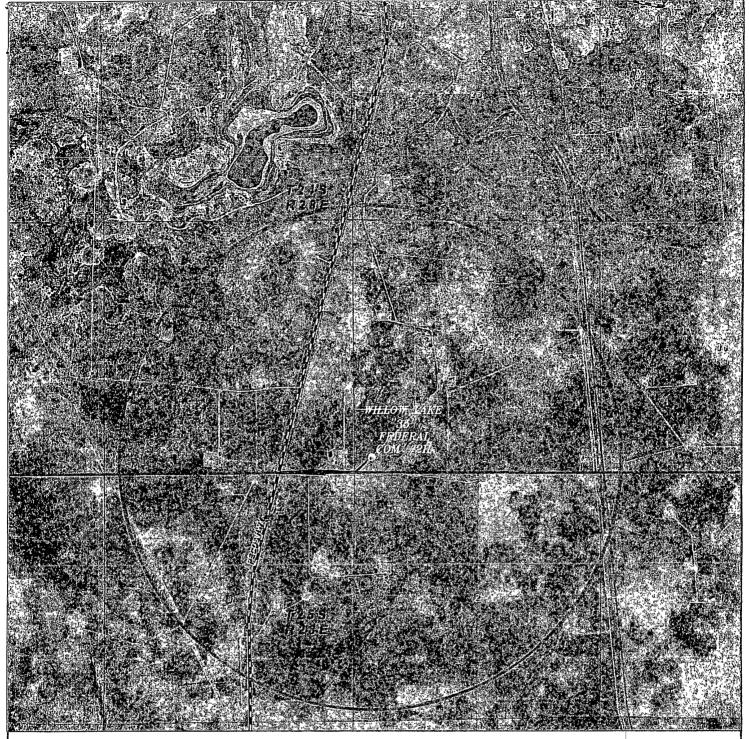


WILLOW LAKE "35" FEDERAL COM #2H
Located 330' FSL and 370' FWL
Section 35, Township 24 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence in the oilfleid P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

THE STATE OF THE PARTY.	W.O 1	lumber:	JMS	22512	
AND SECTIONS	Surve	/ Date:	03-1	6-2010	
Service Services	Scole:	1" = 20	000,		-
F 125 11 11 11 11 11 11 11 11 11 11 11 11 11		03-17-	-2010		

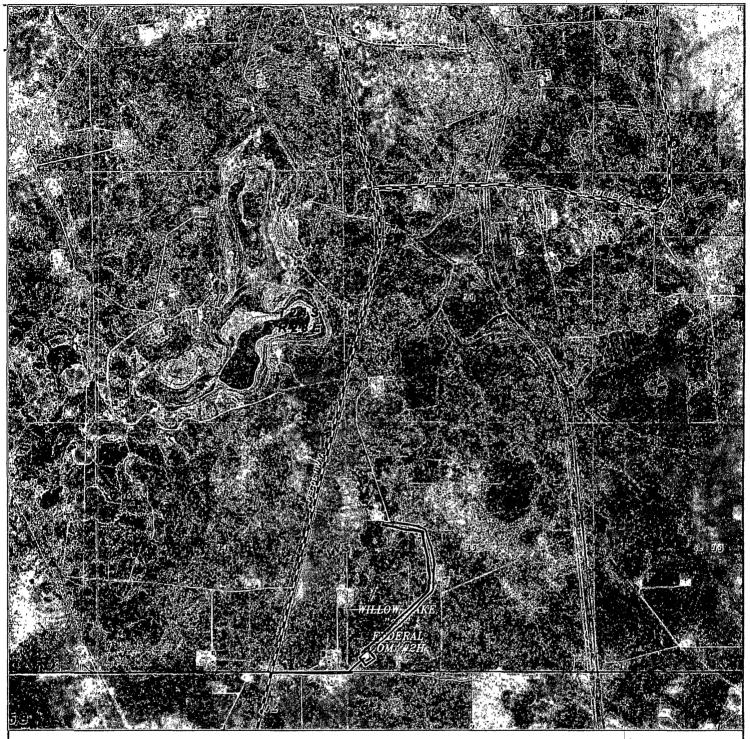


WILLOW LAKE "35" FEDERAL COM #2H Located 330' FSL and 370' FWL Exhibit 4 Section 35, Township 24 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.



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 22512 Scale: 1" = 2000'

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND



WILLOW LAKE "35" FEDERAL COM #2H Exhibit 6A Located 330' FSL and 370' FWL Section 35, Township 24 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.

Road

Gas Line



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 22512

Scale: 1" = 2000'

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND

Drilling Program Mewbourne Oil Company

Willow Lake 35 Fed Com #2H 330' FSL & 370' FWL (SHL) Sec 35-T24S-R28E Eddy County, New Mexico

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

Salt 2050'
*Delaware 2600'
*Cherry Canyon 3470'
*Brushy Canyon 4750'

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

Water Fresh water will be protected by setting surface casing at 650' and

cementing to surface.

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

be protected by casing as necessary.

3. Pressure control equipment:

A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 % & 7"casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A 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 used. Will test the 9 % & 7" BOPE to 3000# and Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

*4. Proposed casing and cementing program:

A. Casing	g Program:				1
Hole Size	Casing	Wt/Ft.	<u>Grade</u>	Depth	Jt Type
12 1/4"	9 %" (new)	36#	J55	0'-650'	ST&C
8 3/4"	7" (new)	26#	HCP110	0-4200'	LT&C
8 3/4"	7" (new)	26#	HCP110	4200'-5200'	BT/C
6 ½ "	4 ½" (new)	11.6#	HCP110	5000'-9317'	LT&C
	• •				

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

Drilling Program Mewbourne Oil Company Willow Lake 35 Fed Com #2H

B. Cementing Program:

- Surface Casing: 300 sacks Class "C" cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface.
- Intermediate Casing: 250 sacks 35:65 poz mix cement containing 6% gel, ii. 5#/sack gilsonite. Yield at 1.98 cuft/sk. 400 sacks Class C cement containing 2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface.
- Production Casing: Plans are to use a Packer-Plus system with 4 ½" casing. iii. Will run Packer type liner @ 5000'

 \mathbb{S}^{ℓ} < Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

5. Mud Program:

<u>Interval</u>	Type System	Weight	Viscosity	Fluid Loss
0'-650'	FW spud mud	8.6-9.0	32-34	NA
650'-5200'	Brine water	10.0	28-30	NA
5200'-9317' TE	FW w/Polymer	8.5-8.7	32-35	15

6. Evaluation Program:

Samples:

10' samples from surface casing to TD

Logging:

Tie-in GR & Gyro from KOP (4280') to surface. GR from 4280' to TD.

COA 7. Downhole Conditions

Zones of abnormal pressure:

None anticipated

Zones of lost circulation:

Anticipated in surface and intermediate holes

Maximum bottom hole temperature:

115 degree F

Maximum bottom hole pressure:

8.3 lbs/gal gradient or less

8. Anticipated Starting Date:

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

Exhibit #4

Status of Wells in Immediate Vicinity

Mewbourne Oil Company Willow Lake 35 Federal Com #2H 330' FSL & 370' FWL (SL) Sec 35-T24S-R28E

Eddy County, New Mexico

Section 35-T24S-R28E

Operator:

Mewbourne Oil Company

Well Name:

Willow Lake 35 Fed Com #1

Unit letter:

Ε

Status:

Flowing

Field:

Salt Draw Atoka

Operator:

Santa Fe Energy Operating Partners LP

Well Name:

Sylvester #1

Unit letter:

P

Status:

P & A

Field:

Wildcat Delaware

Section 26-T24S-R28E

Operator:

Mewbourne Oil Company

Well Name:

Rustler Breaks 26 Fee Com #1

Unit letter:

M

Status:

Flowing

Field:

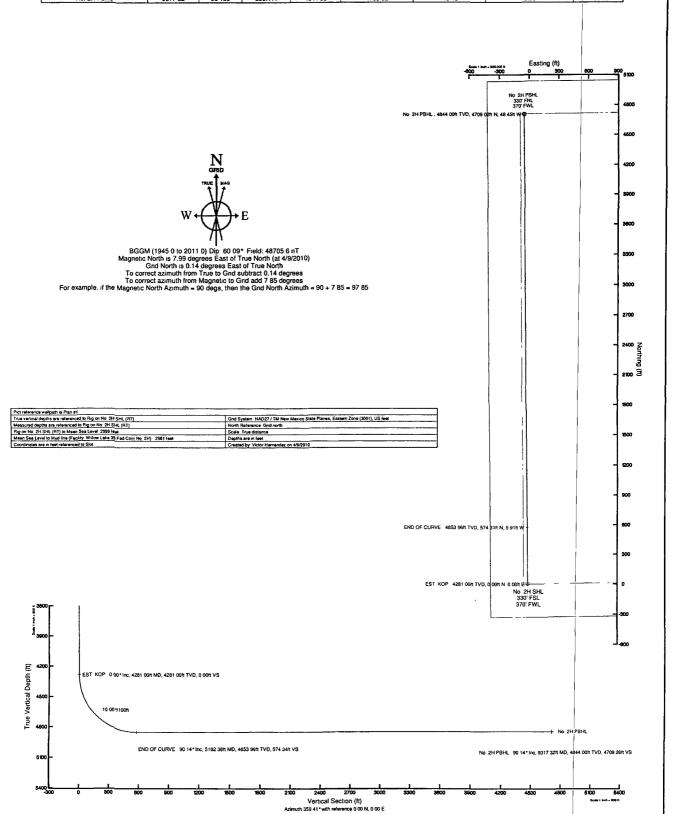
Salt Draw Atoka



Mewbourne Oil Company Location: Eddy County, NM Field: (Willow) Sec 35, T245, R28E Facility. Willow Lake 35 Fed Com No. 2H Wellbore. No. 2H PWB



Well Profile Data									
Design Comment	MD (ft)	Inc (°)	Az (9)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (7100ft)	VS (ft)	
Tie On	0.00	0 000	359.411	0 00	0.00	0 00	0 00	0.00	
EST KOP	4281.00	0 000	359.411	4281.00	0 00	0 00	0 00	0.00	
END OF CURVE	5182 38	90 138	359 411	4853 96	574 31	-5 91	10 00	574.34	
No. 2H PBHI	9317.32	90 138	359 411	4844 00	4709 02	-48 45	0.00	4709 26	





Planned Wellpath Report Plan #1 Page 1 of 4



REBER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Willow) Sec 35, T24S, R28E	Wellbore	No. 2H PWB
Facility	Willow Lake 35 Fed Com No. 2H		

REPORT SETUP INFORMATION									
	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet		WellArchitect® 2.0						
North Reference	Grid	User	Victor Hernandez						
Scale	0.999917	Report Generated	4/9/2010 at 10:50:46 AM						
Convergence at slot	0.14° East	Database/Source file	WA_Midland/No2H_PWB.xml						

WELLPATH LOCATION										
	Local coo	rdinates	Grid co	ordinates	Geographic coordinates					
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude				
Slot Location	0.00	0.00	583091.85	424702.85	32°10'02.424"N	104°03'53.288"W				
Facility Reference Pt			583091.85	424702.85	32°10'02.424"N	104°03'53.288"W				
Field Reference Pt			583091.86	424702.86	32°10'02.424"N	104°03'53.288"W				

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 2H SHL (RT) to GL	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 2H SHL (RT) to Mean Sea Level	2999.00ft
Vertical Reference Pt	Rig on No. 2H SHL (RT)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 2H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.41°

Mewbourne Oil Company

Planned Wellpath Report Plan #1 Page 2 of 4

BAKER HUGHES INTEQ

RIDADR	ENCE WELLPATH IDENTIFICATION			1 To 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Operator	Mewbourne Oil Company	Slot	No. 2H SHL	
Area	Eddy County, NM	Well	No. 2H	
Field	(Willow) Sec 35, T24S, R28E	Wellbore	No. 2H PWB	
Facility	Willow Lake 35 Fed Com No. 2H			

WELLI	ATH DA	TA (54	station	s)	nterpol	ated/ex	trapolate	d station			3,69.2	
MD [ft]	Inclination [°]		TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [º/100ft]	Comments
0.00	0.000	359.411	0.00	0.00	0.00	0.00	583091.85	424702.85	32°10'02.424"N	104°03′53.288"W	0.00	Tie On
4281.00	0.000	359.411	4281.00	0.00	0.00	0.00	583091.85	424702.85	32°10'02.424"N	104°03'53.288"W	0.00	EST. KOP
4381.00†	10.000	359.411	4380.49	8.70	8.70	-0.09	583091.76	424711.55	32°10'02.510"N	104°03'53.288"W	10.00	
4481.00†	20.000	359.411	4476.96	34.55	34.55	-0.36	583091.49	424737.40	32°10'02.766"N	104°03'53.291"W	10.00	
4581.00†	30.000	359 411	4567.48	76.76	76.76	-0.79	583091.06	424779.60	32°10'03 184'N	104°03/53.295°W	10.00	100 150 140 14
4681.00†	40.000	359.411	4649.29	134.05	134.04	-1.38	583090.47	424836.88	32°10'03.751"N	104°03'53.300"W	10.00	
4781.00†	50.000	359.411	4719.91	204.67	204.66	-2.11	583089.74	424907.49	32°10'04.450"N	104°03'53.306"W	10.00	
4881.00†	60.000	359.411	4777.20	286.48	286.46	-2.95	583088.90	424989.29	32°10'05.259"N	104°03'53.314"W	10.00	
4981.00†	70.000	359.411	4819.40	376.99	376.97	-3.88	583087.97	425079.79	32°10'06.155"N	104°03'53.322"W	10.00	
5081.00	80.000	359,411	4845.25	473.46	473,44	-4.87	583086.98	425176.25	32°10'07,109"N	104°03′53.331″W	10.00	
5181.00†	90.000	359.411	4853.96	572.96	572.93	-5.89	583085.96	425275.73	32°10'08.094"N	104°03'53.340"W	10.00	
5182.38	90.138	359.411	4853.96	574.34	574.31	-5.91	583085.94	425277.11	32°10'08.108"N	104°03'53.340"W	10.00	END OF CURVE
5281.00†	90.138	359.411	4853.72	672.96	672.92	-6.92	583084.93	425375.71	32°10'09.083"N	104°03'53.349"W	0.00	
5381.00†	90.138	359.411	4853.48	772.96	772.92	-7.95	583083.90	425475.70	32°10'10.073"N	104°03'53.358"W	0.00	
5481.00†	90.138	359.411	4853.24	872.96	872.91	-8.98	583082.87	425575.69	32°10'11.062"N	104°03'53.367"W	0.00	
5581.00†	90.138	359.411	4853.00	972.96	972.91	-10.01	583081.84	425675.67	32°10'12.052"N	104°03'53.376"W	0.00	
5681.00†	90.138	359.411	4852.76	1072.96	1072.90	-11.04	583080.81	425775.66	32°10'13.041"N	104°03'53.385"W	0.00	
5781.00†	90.138	359.411	4852.51	1172.96	1172.89	-12.07	583079.78	425875.64	32°10'14.031"N	104°03′53.394″W	0.00	
5881.00†	90.138	359.411	4852.27	1272.96	1272.89	-13.10	583078.76	425975.63	32°10'15.021"N	104°03'53.403"W	0.00	
5981.00†	90:138	359.411	4852.03	1372.96	1372.88	-14.12	583077.73	426075.62	32°10'16.010"N	104°03′53.412″W	0.00	6.5
6081.00†	90.138	359.411	4851.79	1472.96	1472.88	-15.15	583076.70	426175.60	32°10'17.000"N	104°03'53.421"W	0.00	
6181.00†	90.138	359.411	4851.55	1572.95	1572.87	-16.18	583075.67	426275.59	32°10'17.989"N	104°03'53.430"W	0.00	
6281.00†	90.138	359.411	4851.31	1672.95	1672.87	-17.21	583074.64	426375.57	32°10'18.979"N	104°03'53.439"W	0.00	
6381.00†	90.138	359.411	4851.07	1772.95	1772.86	-18.24	583073.61	426475.56	32°10'19.968"N	104°03'53.448"W	0.00	
6481.00†	90.138	359:411	4850.83	1872.95	1872.85	-19.27	583072.58	426575.55	32°10'20.958'N	104903'53,457"W	0.00	3.0
6581.00†	90.138	359.411	4850.59	1972.95	1972.85	-20.30	583071.55	426675.53	32°10'21.947"N	104°03'53.466"W	0.00	
6681.00†	90.138	359.411	4850.35	2072.95	2072.84	-21.33	583070.53	426775.52	32°10'22.937"N	104°03'53.476"W	0.00	
6781.00†	90.138	359.411	4850.11	2172.95	2172.84	-22.35	583069.50	426875.50	32°10'23.926"N	104°03'53.485"W	0.00	
6881.00†	90.138	359.411	4849.87	2272.95	2272.83	-23.38	583068.47	426975.49	32°10'24.916"N	104°03'53.494"W	0.00	y
6981.00†	90.138	359.411	4849.63	2372.95	2372.83	-24.41	583067:44	427075.48	32°10'25.905"N	104°03'53.503"W	0.00	



Planned Wellpath Report

Page 3 of 4



INTEQ

REFER	ENCE WELLPATH IDENTIFICATION		49	
Operator	Mewbourne Oil Company	Slot	No. 2H SHL	
Area	Eddy County, NM	Well	No. 2H	
Field	(Willow) Sec 35, T24S, R28E	Wellbore	No. 2H PWB	
Facility	Willow Lake 35 Fed Com No. 2H			

WELLP	ATH DA	TA (54	stations)	*# = iñ	terpolat	ed/ext	rapolated	station				
MD [ft]	Inclination		TVD [ft]	Vert Sect	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7081.00†	90.138		4849.38	2472.95	2472.82	-25.44	583066.41	427175.46	32°10'26.895"N	104°03′53.512"W	0.00	
7181.00†	90.138	359.411	4849.14	2572.95	2572.82	-26.47	583065.38	427275.45	32°10'27.884"N	104°03'53.521"W	0.00	
7281.00†	90.138	359.411	4848.90	2672.95	2672.81	-27.50	583064.35	427375.43	32°10'28.874"N	104°03'53.530"W	0.00	
7381.00†	90.138	359.411	4848.66	2772.95	2772.80	-28.53	583063.33	427475.42	32°10'29.863"N	104°03'53.539"W	0.00	
7481:00+	90.138	359.411	4848.42	2872.95	2872.80	-29.56	583062.30	427575.40	32°10'30 853'N	+104°03'53.548"W	0.00	24.2
7581.00†	90.138	359.411	4848.18	2972.95	2972.79	-30.58	583061.27	427675.39	32°10'31.842"N	104°03'53.557"W	0.00	
7681.00†	90.138	359.411	4847.94	3072.95	3072.79	-31.61	583060.24	427775.38	32°10'32.832"N	104°03'53.566"W	0.00	
7781.00†	90.138	359.411	4847.70	3172.95	3172.78	-32.64	583059.21	427875.36	32°10'33.821"N	104°03'53.575"W	0.00	
7881.00†	90.138	359.411	4847.46	3272.95	3272.78	-33.67	583058.18	427975.35	32°10'34.811"N	104°03'53.584"W	0.00	
7981,00†	90.138	359.411	4847.22	3372.95	3372:77	-34.70	583057:15	428075.33	32°10'35.800"N	-104°03'53.593"W	0.00	432
8081.00†	90.138	359.411	4846.98	3472.95	3472.77	-35.73	583056.12	428175.32	32°10'36.790"N	104°03'53.602"W	0.00	
8181.00†	90.138	359.411	4846.74	3572.95	3572.76	-36.76	583055.10	428275.31	32°10'37.780"N	104°03'53.611"W	0.00	
8281.00†	90.138	359.411	4846.50	3672.95	3672.75	-37.79	583054.07	428375.29	32°10'38.769"N	104°03'53.621"W	0.00	
8381.00†	90.138		4846.25	3772.95	3772.75	-38.81	583053.04	428475.28	32°10'39.759"N	104°03'53.630"W	0.00	
8481.00†	90.138	359.411	4846.01	3872.95	3872.74	-39.84	583052.01	428575.26	32°10'40.748"N	104°03'53'639"W	0.00	
8581.00†	90.138	359.411	4845.77	3972.95	3972.74	-40.87	583050.98	428675.25	32°10'41.738"N	104°03'53.648"W	0.00	
8681.00†	90.138	359.411	4845.53	4072.95	4072.73	-41.90	583049.95	428775.24	32°10'42.727"N	104°03'53.657"W	0.00	
8781.00†	90.138	359.411	4845.29	4172.95	4172.73	-42.93	583048.92	428875.22	32°10'43.717"N	104°03'53.666"W	0.00	
8881.00†		359.411	4845.05	4272.95	4272.72	-43.96	583047.90	428975.21	32°10'44.706"N	104°03'53.675"W	0.00	
8981.00†			4844.81		4372.72	-44.99	583046.87		32°10'45.696"N	104°03!53.684"W	0.00	74
9081.00†	90.138	359.411	4844.57	4472.95	4472.71	-46.02	583045.84	429175.18	32°10'46.685"N	104°03'53.693"W	0.00	
9181.00†	90.138	359.411	4844.33	4572.95	4572.70	-47.04	583044.81	429275.17	32°10'47.675"N	104°03'53.702"W	0.00	
9281.00†	90.138	359.411	4844.09	4672.95	4672.70	-48.07	583043.78	429375.15	32°10'48.664"N	104°03'53.711"W	0.00	
9317.32	90.138	359.411	4844.00 ¹	4709.26	4709.02	-48.45	583043.41	429411.47	32°10'49.024"N	104°03'53.715"W	0.00	No. 2H PBHL

Mewbourne Oil Company

Planned Wellpath Report Plan #1 Page 4 of 4

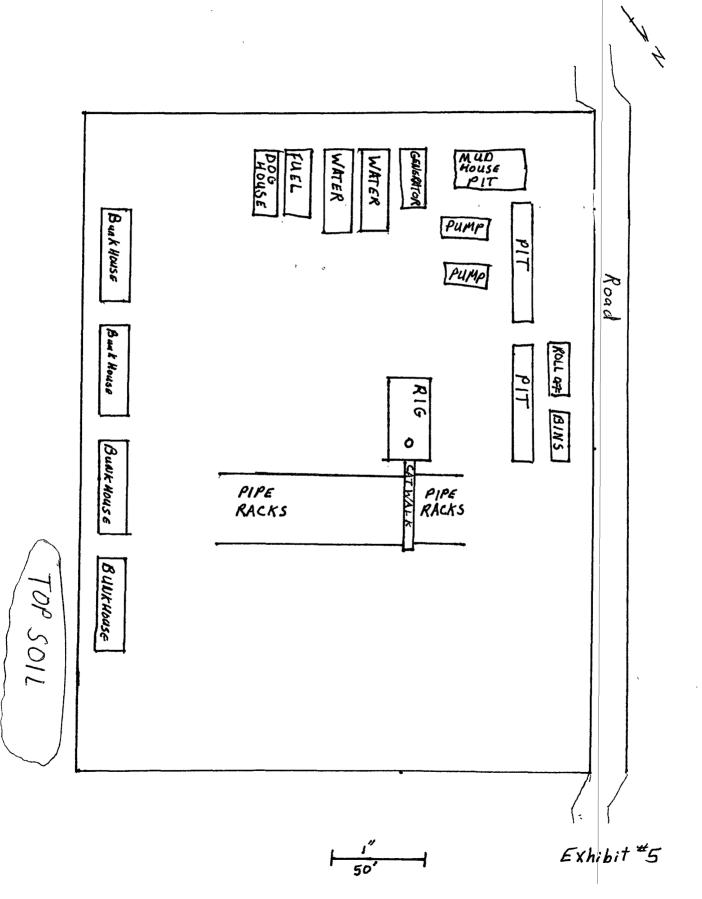


REDDER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 2H SHL
Area	Eddy County, NM	Well	No. 2H
Field	(Willow) Sec 35, T24S, R28E	Wellbore	No. 2H PWB
Facility	Willow Lake 35 Fed Com No. 2H		

TARGETS									deprisé Shekara
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North	Latitude	Longitude	Shape
1) No. 2H PBHL	9317.32	4844.00			583043.41	429411.47	32°10'49.024"N	104°03'53,715"W	point
1) 140. 211 1 101112		Wh. day 1						No.	

SURVEY PRO	GRAM Ref	Wellbore: No. 2H PWB Ref Wellpath; Pl	an #1	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	9317.32	NaviTrak (Standard)		No. 2H PWB

· Mewbourne Oil Company Willow Lake 35 Federal Com#2H · 330' FSL f 370' FWL Sec 35, T245, R28E Eddy Co., NM



Mewbourne Uil Company Willow Lake 35 Federal Com#2H 330' FSL ? 370' FWL Sec 35, T245, R28E Eddy Co., NM

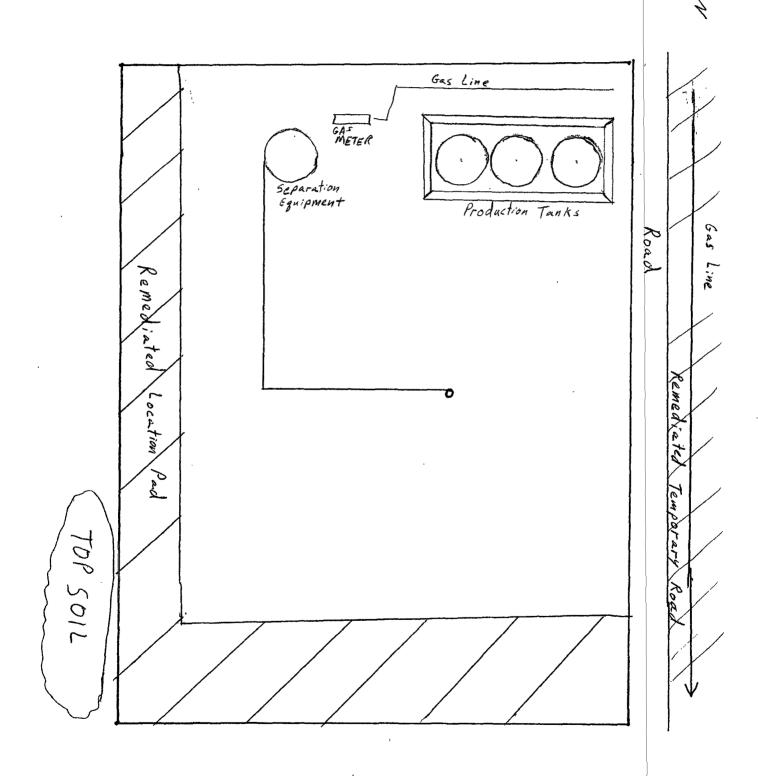


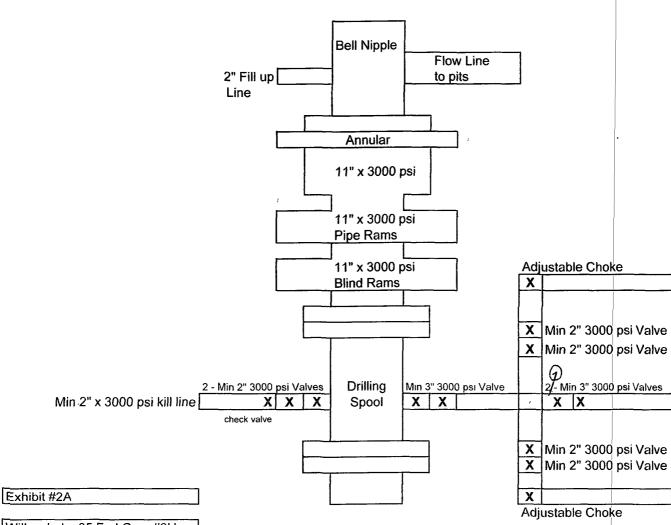
Exhibit 6

Notes Regarding Blowout Preventer Mewbourne Oil Company

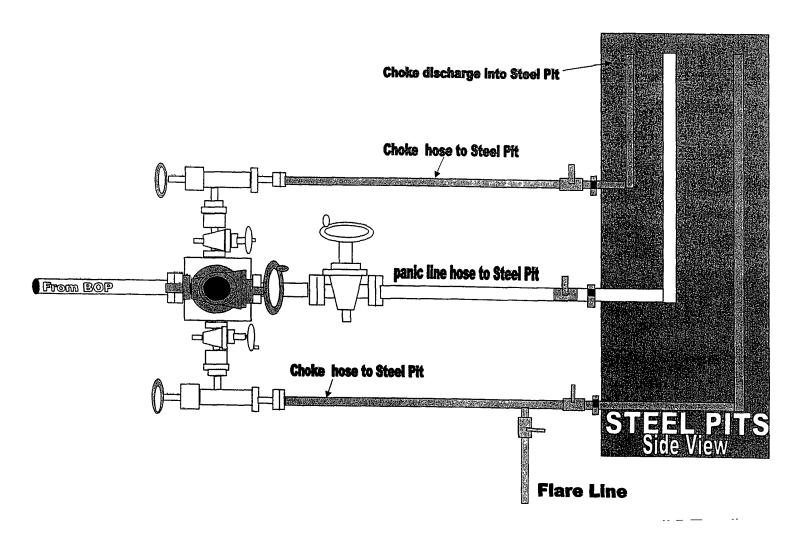
Willow Lake 35 Federal Com #2H 330' FSL & 370' FWL (SHL) Sec 35-T24S-R28E Eddy County, New Mexico

- 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 and 3000 psi working pressure on 7".
- 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 3000 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.



Willow Lake 35 Fed Com #2H 330' FSL & 370' FWL Sec 35-T24S-R28E Eddy, County New Mexico



2000#/3000#BOP manifold system

For Exhibit 2+2A

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Willow Lake 35 Federal Com #2H 330' FSL & 370' FWL (SL) Sec 35-T24S-R28E 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 drilling out from surface casing 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.

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Willow Lake 35 Fed Com #2H Page 2

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
Closest Medical Facility - Columbia Medical	Center of Carlshad 575-492-5000

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
Drilling Foreman	George Smith	575-390-4365

MEWBOURNE OIL COMPANY P O BOX 7698 FYLER TX 75711 7698

218171 No.

DATE NVOICE NOMBER			(903)561-2900		
APD APPLICATION FILING FEE FOR WILLOW LAKE 35 FED COM #2H 330' FSL & 370' FWL SEC 35, T24S, R28E, EDDY CO., NM	INVOICE DATE	INVOICE NUMBER	DESCRIPTION	VOUCHER	AMOUNT
			DESCRIPTION APD APPLICATION FILING FEE FOR WILLOW LAKE 35 FED COM #2H 330' FSL & 370' FWL SEC 35, T24S, R28E, EDDY CO., NM		AMOUNT 6500.00

THIS CHECK IS VOID WITHOUT A BLUE AND GREEN BACKGROUND AND AN ARTIFICIAL WATERMARK ON THE BACK HOLD AT AN ANGLE TO VIEW

Bank of America

MEWBOURNE OIL COMPANY P.O BOX 7698

TX 75711 7698

No. 218171

******6;500*DOLLARS*AND*****0*CENTS

DATE PAY THIS AMOUNT 6/01/10

PAYTOTHE

BUREAU OF LAND MANAGEMENT 620 E GREENE STREET CARLSBAD; NM 88220

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Willow Lake 35 Federal Com #2H 330' FSL & 370' FWL (SHL) Sec 35-T24S-R28E 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: Leaving out of Loving, NM on Hwy US 285 south 9 miles. Turn left (east) on existing lease road for 0.3 mile. Turn left (northeast) 400' to location.

2. Proposed Access Road:

- A lease road exists through the proposed location. A temporary road will be build to divert traffic around the drilling rig. This road will be an extension of the location and will be removed upon cessation of drilling and completion activities. The area will be reseeded. The permanent road will run through the location.
- 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 SW side of well pad. An above ground poly pipe gas line will leave this location and run parallel to the existing lease road to a MOC tie-in point in unit letter E of this section as shown in Exhibits 6 & 6A.
- C. All production vessels left on location will be painted to conform with BLM painting stipulations within 180 days of installation.
- D. Electricity exists at edge of location.

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.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY Willow Lake 35 Fed Com #2H Page 2

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 Willow Lake Com #1 Permit #744, 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.
- B. The pad dimension of 280' x 320' has been staked and flagged.
- C. An archaeological survey is in the process of being conducted on the proposed location pad.

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 Willow Lake 35 Federal Com #2H Page 3

11. Surface Ownership:

The surface is owned by: Devon Energy Corp., 20 North Broadway, Oklahoma City, OK (405) 235-3611. Devon has approved the surface use plan of operations.

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 _30day of May, 2010.
Name: NM Young
Signature:
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:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
Mewbourne Oil Co
NM25953
2H Willow Lake 35 Fed Com
330' FSL & 370' FWL
330' FNL & 370' FWL
LOCATION:
Section 35, T. 24 S., R 28 E., NMPM
Eddy County, New Mexico

TABLE OF CONTENTS

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

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Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
Communitization Agreement
⊠ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
High cave/karst
Logging Requirements
Waste Material and Fluids
☑ Production (Post Drilling)
Well Structures & Facilities
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)

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:

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.

Communitization Agreement:

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

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 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

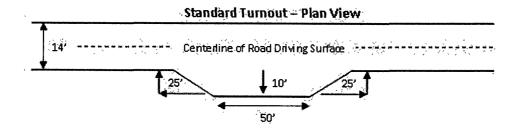
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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:

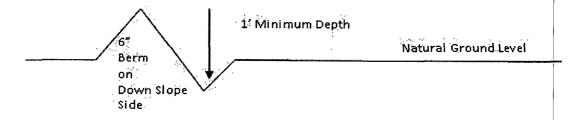


Drainage

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

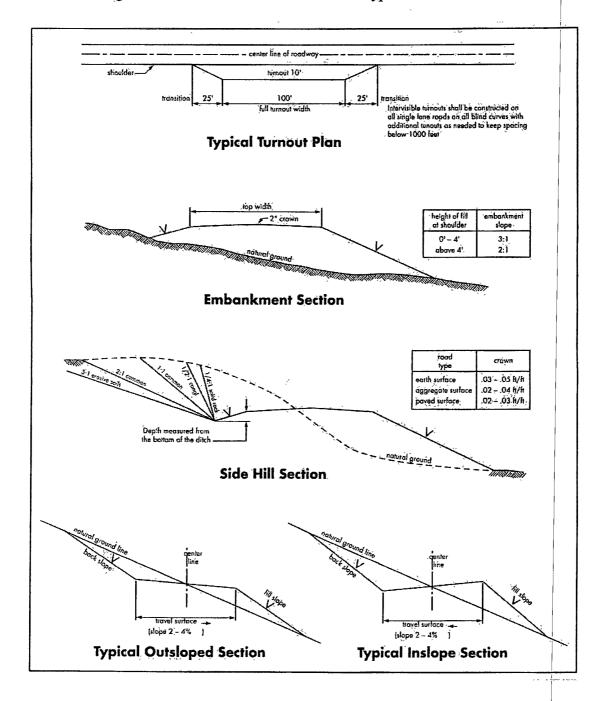
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

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 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. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. 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. The Rustler top and top and bottom of Salt 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 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. 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. A DV TOOL WILL BE REQUIRED.

Possible lost circulation in the Castile Group.

- 1. The 9-5/8 inch surface casing shall be set at approximately 650 feet and cemented to the surface.
 - 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 7 inch production casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

- 3. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - Cement is not required; operator is using the Packer-Plus completion system
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) 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

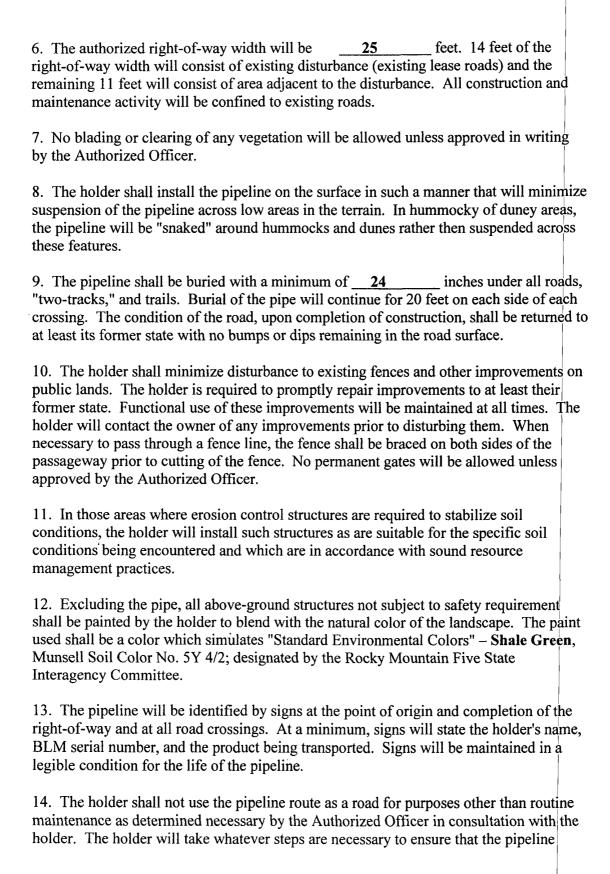
release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release 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.
- c. Acts of God.

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.



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	<u>lb/acre</u>
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