	OCI	D Artesla					
Form 3160-3 (March 2012) UNITED STATES			ļ		APPROV o. 1004-01 ctober 31,	37	
DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT				5. Lease Serial No. NMLC 061497			
APPLICATION FOR PERMIT TO I		REENTER		6. If Indian, Allotee	or Tribe	Name	
la. Type of work: 🗹 DRILL 🗌 REENTE	R			7 If Unit or CA Agre	emeni, N	ame and No.	
lb. Type of Well: Oil Well 🔽 Gas Well Other	Sin	ngle Zone 🔽 Multip	le Zone	8. Lease Name and V FULLER 13/12 W2		сом 2н 3/	7297
2. Name of Operator MEWBOURNE OIL COMPANY	147	44		9. API Well No. 30-01	15-1	44039	
3a. Address PO Box 5270 Hobbs NM 88240	3b. Phone No. (575)393-5	(include area code) 905		10. Field and Pool, or I BRUSHY DRAW W			72897
 Location of Well (Report location clearly and in accordance with any At surface SWSE / 760 FSL / 2030 FEL / LAT 32.036973 At proposed prod. zone NWNE / 330 FNL / 2100 FEL / LAT 	37 / LONG - 1	103.9357643	112	11. Sec., T. R. M. or B SEC 13 / T26S / R		-	
14. Distance in miles and direction from nearest town or post office* 20 miles	32.0033050			12. County or Parish EDDY		13. State NM	
 15. Distance from proposed* location to nearest 330 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of a 640	cres in lease	17. Spacir 560	g Unit dedicated to this	well		
 Distance from proposed location* to nearest well, drilling, completed, 50 feet applied for, on this lease, ft. 			20. BLM/ FED: N	1/BIA Bond No. on file NM1693			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2995 feet	22. Approxir 08/16/201	m <mark>ate</mark> date work will star 6	1*	23. Estimated duratio 60 days	n		
	24. Attac	hments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be at	tached to th	iis form:			
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the Item 20 above).	ne operatio	ons unless covered by an	existing	bond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	 Operator certific Such other site BLM. 		formation and/or plans a	s may be	required by the	
25. Signature (Electronic Submission)		(Printed/Typed) ey Bishop / Ph: (57	5)393-59	05	Date 08/30	/2016	
Title Regulatory					L		
Approved by (Signature) (Electronic Submission)		(Printed/Typed) Layton / Ph: (575)2	34-5959	· <u> </u>	Date 12/30)/2016	
Title Supervisor Multiple Resources	Office CARL	Office CARLSBAD					
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equit	table title to those righ	ts in the sul	ojectlease which would e	entitle the	applicant to	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t	time for any period any matter w	erson knowingly and writhin its jurisdiction.	villfully to r	nake to any department of	or agency	of the United	
(Continued on page 2)		avniti	ONS	*(Inst	ructior	as on page 2)	

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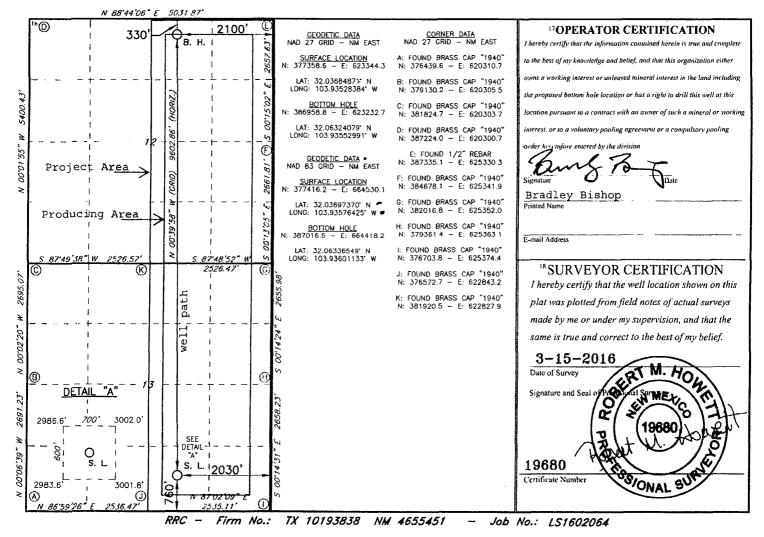


NM OIL CONSERVATION ARTESIA DISTRICT JAN 1 1 2017 RECEIVED District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District III 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

		W	ELL LO	OCATIO	N AND ACR	EAGE DEDIC	ATION PLAT	Г	
i API Number 2Pool Code					³ Pool Name				
30-01 AProperty Co	5-44	4039		72897	•	Br	ushy Draw W	olfcamp Gas	
^{4Property Co} 3/72	^{de} 97			FULLE	⁵ Property Na R 13/12 W	^{me} 2JB FED CO	M		⁶ Well Number 2H
70GRID1 1474				MEWE	⁸ Operator Na BOURNE OII	COMPANY	14744		Elevation 2995'
					¹⁰ Surface I	Location			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
0	13	26S	29E		760	SOUTH	2030	EAST	EDDY
			¹¹]	Bottom H	lole Location	If Different Fro	om Surface		<u> </u>
UL or lot no.	Section	Township	Range	Loi Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	12	26S	29E		330	NORTH	2100	EAST	EDDY
12 Dedicated Acres	s 13 Joint	or Infill 14 (Consolidation	Code 15 (Drder No.				

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



FMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400004839

Operator Name: MEWBOURNE OIL COMPANY Well Name: FULLER 13/12 W2JB FED COM Well Type: CONVENTIONAL GAS WELL Submission Date: 08/30/2016 Federal/Indian APD: FED Well Number: 2H

APD Print Report

Highlight All Changes

01/03/2017

Well Work Type: Drill

Application

Section 1 - General

APD ID:	10400004839		Tie to previous NOS?		Submission Date: 08/30/2016
BLM Office:	CARLSBAD		User: Bradley Bishop	Title	: Regulatory
Federal/Indi	an APD: FED		Is the first lease penetrat	ed for production	on Federal or Indian? FED
Lease numb	er: NMLC 061497		Lease Acres: 640		
Surface acc	ess agreement in place?	?	Allotted?	Reservation:	
Agreement i	n place? NO		Federal or Indian agreem	nent:	
Agreement i	number:				
Agreement	name:				
Keep applic	ation confidential? YES				
Permitting A	gent? NO		APD Operator: MEWBOL	JRNE OIL COMP	ANY
Operator let	ter of designation:	Fuller 13	12 W2JB Fed Com 2H_op	erator letter of de	signation_08-25-2016.pdf
Keep applic	ation confidential? YES				

Operator Info

Operator Organization Name: MEW	VBOURNE OIL COMPANY					
Operator Address: PO Box 5270						
Operator PO Box:		Zip: 88240				
Operator City: Hobbs	State: NM					
Operator Phone: (575)393-5905						
Operator Internet Address:						

Section 2 - Well Information

Well in Master Development Plan? NO	Mater Development Plan name:
Well in Master SUPO? NO	Master SUPO name:
Well in Master Drilling Plan? NO	Master Drilling Plan name:

Operator Name	: MEWBOURNE OIL COMPANY		
Well Name: FL	LLER 13/12 W2JB FED COM	Well Number: 2H	
Well Name: Fill	LLER 13/12 W2JB FED COM	Well Number: 2H	Well API Number:
	xploratory? Field and Pool	Field Name: BRUSHY DRAW	Pool Name: WOLFCAMP
		WOLFCAMP GAS	
Is the proposed	d well in an area containing other n	nineral resources? USEABLE WATE	=K
Describe other	minerals:		
Is the propose	d well in a Helium production area?	N Use Existing Well Pad? NO	New surface disturbance
Type of Well Pa	ad: SINGLE WELL	Multiple Well Pad Name:	Number:
Well Class: HO	RIZONTAL	Number of Legs: 1	
Well Work Typ	e: Drill		
Well Type: CO	VVENTIONAL GAS WELL		
Describe Well	Гуре:		
Well sub-Type:	APPRAISAL		
Describe sub-t	уре:		
Distance to tov	vn: 20 Miles Distance t	o nearest well: 50 FT Dista	nce to lease line: 330 FT
Reservoir well	spacing assigned acres Measurem	nent: 560 Acres	
Well plat: F	uller 13 12 W2JB Fed Com 2H_well p	blat_08-25-2016.pdf	
Well work star	Date: 08/16/2016	Duration: 60 DAYS	
Sectior	3 - Well Location Table		
Survey Type: F	ECTANGULAR		
Describe Surve	у Туре:		
Datum: NAD83		Vertical Datum: NAVD88	
Survey number	: 1		
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPA	L County: EDDY
	Latitude: 32.0369737	Longitude: -103.9357643	
SHL	Elevation: 2995	MD: 0	TVD: 0
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061497	
	NS-Foot: 760	NS Indicator: FSL	
	EW-Foot : 2030	EW Indicator: FEL	
		Range: 29E	Section: 13

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Operator Name: MEWBOURNE OIL COMPANY Well Name: FULLER 13/12 W2JB FED COM

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Well Number: 2H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: EDDY
	Latitude: 32.0369737	Longitude: -103.9357643
KOP	Elevation: -7715	MD: 10710 TVD : 10710
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061497
	NS-Foot: 760	NS Indicator: FSL
	EW-Foot: 2030	EW Indicator: FEL
	Twsp: 26S	Range: 29E Section: 13
	Aliquot: SWSE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: EDDY
	Latitude: 32.0392964	Longitude: -103.9353075
PPP	Elevation: -8289	MD : 12000 TVD : 11284
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061497
	NS-Foot: 1650	NS Indicator: FNL
	EW-Foot: 2035	EW Indicator: FEL
	Twsp: 26S	Range: 29E Section: 13
	Aliquot: NWSE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: EDDY
	Latitude: 32.0633655	Longitude: -103.9360113
EXIT	Elevation: -8330	MD : 20638 TVD : 11325
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM57261
	NS-Foot : 330	NS Indicator: FNL
	EW-Foot: 2100	EW Indicator: FEL
	Twsp : 26S	Range: 29E Section: 12
	Aliquot: NWNE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: EDDY
	Latitude: 32.0633655	Longitude: -103.9360113
BHL	Elevation: -8330	MD: 20638 TVD: 11325
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM57261
	NS-Foot: 330	NS Indicator: FNL
	EW-Foot: 2100	EW Indicator: FEL

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Operator Name: MEWBOURNE OI		
Well Name: FULLER 13/12 W2JB F	ED COM Well Numbe	r: 2H
Twsp: 26S	Range: 29E	Section: 12
Aliquot: NWNE	Lot:	Tract:
State and a state a st	Drilling Plan	
Section 1 - Geologic	Formations	
D: Surface formation	Name: UNKNOWN	
_ithology(ies):		
Elevation: 2995	True Vertical Depth: 27	Measured Depth: 27
Mineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 1	Name: RUSTLER	
_ithology(ies):		
DOLOMITE		
ANHYDRITE		
Elevation: 2295	True Vertical Depth: 700	Measured Depth: 700
Aineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 2	Name: CASTILE	
.ithology(ies):		
SALT		
Elevation: 1405	True Vertical Depth: 1590	Measured Depth: 1590
/ineral Resource(s):		
NONE		
s this a producing formation? N		

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Well Name: FULLER 13/12 W2JB FE	ED COM	Well Number	: 2H	
ID: Formation 3	Name: BOTTOM	SALT		
Lithology(ies):				
SALT				
Elevation: 60	True Vertical Dep	oth: 2935	Measured Depth: 2935	
Mineral Resource(s):				
NONE				
Is this a producing formation? N				
ID: Formation 4	Name: LAMAR			
Lithology(ies):				
LIMESTONE				
Elevation: -130	True Vertical De	pth: 3125	Measured Depth: 3125	
Mineral Resource(s):				
NATURAL GAS				
OIL				
Is this a producing formation? N				
ID: Formation 5	Name: BELL CAN	NYON		
Lithology(ies):	·			
SANDSTONE				
Elevation: -170	True Vertical De	pth: 3165	Measured Depth: 3165	
Mineral Resource(s):				
NATURAL GAS				
OIL				
Is this a producing formation? N				
ID: Formation 6	Name: CHERRY	CANYON		
Lithology(ies):				
SANDSTONE				

Operator Name: MEWBOURNE OIL		
Well Name: FULLER 13/12 W2JB FE	D COM Well Number:	2H
Aineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		
D: Formation 7	Name: MANZANITA	
_ithology(ies):		
LIMESTONE		
Elevation: -1230	True Vertical Depth: 4225	Measured Depth: 4225
Mineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		
D: Formation 8	Name: BRUSHY CANYON	
.ithology(ies):		
SANDSTONE		
Elevation: -2310	True Vertical Depth: 5305	Measured Depth: 5305
/ineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		
D: Formation 9	Name: BONE SPRING LIME	
.ithology(ies):		
LIMESTONE		
SHALE		
levation: -3995	True Vertical Depth: 6990	Measured Depth: 6990
lineral Resource(s):		
NATURAL GAS		
OIL		
s this a producing formation? N		

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Well Name: FULLER 13/12 W2JB FE	D COM Well Number:	: 2H
ID: Formation 10	Name: BONE SPRING 1ST	
Lithology(ies):		
SANDSTONE		
Elevation: -4855	True Vertical Depth: 7850	Measured Depth: 7850
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 11	Name: BONE SPRING 2ND	
Lithology(ies):		
SANDSTONE		
Elevation: -5505	True Vertical Depth: 8500	Measured Depth: 8500
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		
ID: Formation 12	Name: BONE SPRING 3RD	
Lithology(ies):		
Elevation: -6760	True Vertical Depth: 9755	Measured Depth: 9755
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 13	Name: WOLFCAMP	
Lithology(ies):		
LIMESTONE		

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

SANDSTONE

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	True Vertical Depth: 10120	Measured Depth: 10120
Mineral Resource(s):		
NATURAL GAS		
Is this a producing formation? Y		
Section 2 - Blowout Prev	ention	
Pressure Rating (PSI): 10M	Rating Depth: 11325	
Equipment: Annular, Pipe Ram, Blind Ram	n	
Requesting Variance? YES		
Variance request: A variance is requested	I for the use of a flexible choke line fror	n the BOP to Choke Manifold.
Testing Procedure: Test Annular to 5000	# Test Rams to 10000#	
Choke Diagram Attachment:		
Fuller 13-12 W2JB Fed Com 2H	_10M BOPE Choke Diagram_08-30-20	016.pdf
BOP Diagram Attachment:		
Fuller 13-12 W2JB Fed Com 2H	_10M BOPE Schematic_08-30-2016.p	df
Pressure Rating (PSI): 3M	Rating Depth: 3050	
Equipment: Annular	r	
Requesting Variance? YES		
Variance request: A variance is requested	for the use of a flexible choke line fror	n the BOP to Choke Manifold.
Testing Procedure: Test Annular to 1500	<i>ŧ.</i>	
Choke Diagram Attachment:		
Fuller 13-12 W2JB Fed Com 2H	_3M Surface BOPE Choke Diagram_0	8-30-2016.pdf
BOP Diagram Attachment:		
Fuller 13-12 W2JB Fed Com 2H	_13.625 Inch 3M Surface BOPE Scher	natic_08-30-2016.pdf

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Pressure Rating (PSI): 5M Rating

Rating Depth: 11283

Equipment: Annular, Pipe Ram, Blind Ram

Requesting Variance? YES

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Variance request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: Test annular to 2500#. Test rams to 5000#.

Choke Diagram Attachment:

Fuller 13-12 W2JB Fed Com 2H_5M BOPE Choke Diagram_08-30-2016.pdf

BOP Diagram Attachment:

Fuller 13-12 W2JB Fed Com 2H_5M BOPE Schematic_08-30-2016.pdf

Section 3 - Casing

Well Name: FULLER 13/12 W2JB FED COM

COM	Well Number: 2H
Other String Type:	<u></u>

String Type: SURFACE Hole Size: 17.5 Top setting depth MD: 0 Top setting depth TVD: 0 Top setting depth MSL: -8330 Bottom setting depth MD: 725 Bottom setting depth TVD: 725 Bottom setting depth MSL: -9055 Calculated casing length MD: 725 Casing Size: 13.375 **Other Size** Grade: H-40 Other Grade: Weight: 48 Joint Type: STC **Other Joint Type:** Condition: NEW **Inspection Document:** Standard: API **Spec Document:** Tapered String?: N **Tapered String Spec:** Safety Factors **Collapse Design Safety Factor: 2.04 Burst Design Safety Factor: 4.59**

Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s):

Joint Tensile Design Safety Factor type: DRY

Burst Design Safety Factor: 4.59 Joint Tensile Design Safety Factor: 9.25 Body Tensile Design Safety Factor: 15.55

Fuller 13-12 W2JB Fed Com 2H_Casing Assumptions_08-30-2016.pdf

Well Name: FULLER 13/12 W2JB FED COM

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Well Number: 2H

String Type: INTERMEDIATE	Other String Type:	
Hole Size: 12.25		
Top setting depth MD: 0		Top setting depth TVD: 0
Top setting depth MSL: -8330		
Bottom setting depth MD: 3050		Bottom setting depth TVD: 3050
Bottom setting depth MSL: -11380		
Calculated casing length MD: 3050		
Casing Size: 9.625	Other Size	
Grade: J-55	Other Grade:	
Weight: 36		
Joint Type: LTC	Other Joint Type:	
Condition: NEW		
Inspection Document:		
Standard: API		
Spec Document:		
Tapered String?: N		
Tapered String Spec:		
Safety Factors		
Collapse Design Safety Factor: 1.2	27	Burst Design Safety Factor: 2.22
Joint Tensile Design Safety Factor	r type: DRY	Joint Tensile Design Safety Factor: 4.13

Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s):

Fuller 13-12 W2JB Fed Com 2H_Casing Assumptions_08-30-2016.pdf

Body Tensile Design Safety Factor: 5.14

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Operator Name: MEWBOURNE OIL CO	OMPANY	· · · · · · · · · · · · · · · · · · ·
Well Name: FULLER 13/12 W2JB FED COM		Well Number: 2H
String Type: PRODUCTION	Other String Type:	
Hole Size: 8.75		
Top setting depth MD: 0		Top setting depth TVD: 0
Top setting depth MSL: -8330		
Bottom setting depth MD: 11710		Bottom setting depth TVD: 11283
Bottom setting depth MSL: -19613		
Calculated casing length MD: 11710		
Casing Size: 7.0	Other Size	
Grade: P-110	Other Grade:	
Weight: 26		
Joint Type: LTC	Other Joint Type:	
Condition: NEW		
Inspection Document:		
Standard: API		
Spec Document:		
Tapered String?: N		
Tapered String Spec:		
Safety Factors		
Collapse Design Safety Factor: 1.4		Burst Design Safety Factor: 1.79
Joint Tensile Design Safety Factor	type: DRY	Joint Tensile Design Safety Factor: 2.17
Body Tensile Design Safety Factor type: DRY		Body Tensile Design Safety Factor: 2.78

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Fuller 13-12 W2JB Fed Com 2H_Casing Assumptions_08-30-2016.pdf

Casing Design Assumptions and Worksheet(s):

Well Name: FULLER 13/12 W2JB FED COM

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Well Number: 2H

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String Type: LINER	Other String Type	:
Hole Size: 6.125		
Top setting depth MD: 10710		Top setting depth TVD: 10710
Top setting depth MSL: -19040		
Bottom setting depth MD: 20640		Bottom setting depth TVD: 11325
Bottom setting depth MSL: -19655		
Calculated casing length MD: 9930		
Casing Size: 4.5	Other Size	
Grade: P-110	Other Grade:	
Weight: 13.5		
Joint Type: LTC	Other Joint Type:	
Condition: NEW		
Inspection Document:		
Standard: API		
Spec Document:		
Tapered String?: N		
Tapered String Spec:		
Safety Factors		
Collapse Design Safety Factor: 1.3	39	Burst Design Safety Factor: 1.62

Joint Tensile Design Safety Factor type: DRY Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 1.62 Joint Tensile Design Safety Factor: 2.52 Body Tensile Design Safety Factor: 3.15

Fuller 13-12 W2JB Fed Com 2H_Casing Assumptions_08-30-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Operator Name: MEWBOURNE OIL COMPANY Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Stage Tool Depth:

<u>Lead</u>

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Top MD of Segment: 0	Bottom MD Segment: 725	Cement Type: Class C
Additives: Salt, Gel, Extender, LCM	Quantity (sks): 355	Yield (cu.ff./sk): 2.12
Density: 12.5	Volume (cu.ft.): 752	Percent Excess: 100
<u>Tail</u>		
Top MD of Segment: 0	Bottom MD Segment: 725	Cement Type: Class C
Additives: Retarder	Quantity (sks): 200	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 268	Percent Excess: 100
Casing String Type: INTERMEDIATE		
Stage Tool Depth:		
<u>Lead</u>		
Top MD of Segment: 0	Bottom MD Segment: 3050	Cement Type: Class C
Additives: Salt, Gel, Extender, LCM	Quantity (sks): 470	Yield (cu.ff./sk): 2.12
Density: 12.5	Volume (cu.ft.): 996	Percent Excess: 25
<u>Tail</u>		
Top MD of Segment: 0	Bottom MD Segment: 3050	Cement Type: Class C
Additives: Retarder	Quantity (sks): 200	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 268	Percent Excess: 25
Casing String Type: PRODUCTION		
Stage Tool Depth: 4225		
<u>Lead</u>		
Top MD of Segment: 2850	Bottom MD Segment: 4225	Cement Type: Class C
Additives: Gel, Retarder, Defoamer, Extender	Quantity (sks): 70	Yield (cu.ff./sk): 2.12
Density: 12.5	Volume (cu.ft.): 148	Percent Excess: 25
<u>Tail</u>		
Top MD of Segment: 2850	Bottom MD Segment: 4225	Cement Type: Class C
Additives: Retarder	Quantity (sks): 100	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 134	Percent Excess: 25

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Stage Tool Depth: 4225

<u>Lead</u>

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Top MD of Segment: 4225	Bottom MD Segment: 11500	Cement Type: Class C
Additives: Gel, Retarder, Defoamer,	Quantity (sks): 425	Yield (cu.ff./sk): 2.12
Extender Density: 12.5	Volume (cu.ft.): 902	Percent Excess: 25
<u>Tail</u>		
Top MD of Segment: 4225	Bottom MD Segment: 11500	Cement Type: Class H
Additives: Retarder, Fluid Loss,	Quantity (sks): 400	Yield (cu.ff./sk): 1.18
Defoamer Density: 15.6	Volume (cu.ft.): 472	Percent Excess: 25

Casing String Type: LINER

Stage Tool Depth:

Lead		
Top MD of Segment: 10710	Bottom MD Segment: 20640	Cement Type: Class C
Additives: Salt, Gel, Fluid Loss,	Quantity (sks): 400	Yield (cu.ff./sk): 2.97
Retarder, Dispersant, Defoamer, Anti- Settling Agent Pensity: 11.2	Volume (cu.ft.): 609	Percent Excess: 25
	Bottom MD Segment:	Cement Type:
Top MD of Segment: 925	Quantity (sks):	Yield (cu.ff./sk):
Additives:	Volume (cu.ft.):	Percent Excess: 25
	volume (cu.it.).	Tercent Excess. 2

Density:

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Lost circulation material Sweeps Mud scavengers in surface hole Weighted mud for possible over-pressure in Wolfcamp formation

Describe the mud monitoring system utilized: Visual Monitoring

Circulating Medium Table

Operator Name: MEWBOURNE OIL COMPANY Well Name: FULLER 13/12 W2JB FED COM

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Top Depth: 0	Bottom Depth: 725
Mud Type: SPUD MUD	
Min Weight (Ibs./gal.): 8.6	Max Weight (lbs./gal.): 8.8
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 725	Bottom Depth: 3050
Mud Type: SALT SATURATED	
Min Weight (Ibs./gal.): 10	Max Weight (lbs./gal.): 10
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 3050	Bottom Depth: 10710
Mud Type: WATER-BASED MUD	
Min Weight (lbs./gal.): 8.6	Max Weight (Ibs./gal.): 9.5
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 10710	Bottom Depth: 11325
Mud Type: OIL-BASED MUD	
Min Weight (Ibs./gal.): 9.5	Max Weight (Ibs./gal.): 13
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

Well Number: 2H

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: Will run GR/CNL from KOP (10710') to surface List of open and cased hole logs run in the well: CNL,DS,GR,MWD,MUDLOG

Coring operation description for the well: None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 7067

Anticipated Surface Pressure: 7067

Anticipated Bottom Hole Temperature(F): 165

Anticipated abnormal proessures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Fuller 13-12 W2JB Fed Com 2H_H2S Plan_08-30-2016.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Fuller 13-12 W2JB Fed Com 2H_Directional Plot_08-30-2016.pdf Fuller 13-12 W2JB Fed Com 2H_Directional Plan_08-30-2016.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Other Variance attachment:

Fuller 13-12 W2JB Fed Com 2H_Flex Line Specs_08-30-2016.pdf

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Fuller 13 12 W2JB Fed Com 2H_Existing road map_08-25-2016.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO Existing Road Improvement Description: Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? NO

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Fuller 13 12 W2JB Fed Com 2H_existing well map_08-25-2016.pdf

Existing Wells description:

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description: a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer. b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location. c. Production from the proposed well will be located on the south edge of location. d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction. e. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

Production Facilities map:

Fuller 13 12 W2JB Fed Com 2H_production facilities map_08-25-2016.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: CAMP USE, DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING	Water source type: IRRIGATION
Describe type:	Source longitude: -104.05763
Source latitude: 32.04928	
Source datum: NAD83	
Water source permit type: WATER WELL	
Source land ownership: FEDERAL	
Water source transport method: TRUCKING	
Source transportation land ownership: FEDERAL	
Water source volume (barrels): 1940	Source volume (acre-feet): 0.2500526
Source volume (gal): 81480	
Water source use type: DUST CONTROL, INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING	Water source type: IRRIGATION
Describe type:	Source longitude: -103.94056
Source latitude: 32.998142	
Source datum: NAD83	
Water source permit type: PRIVATE CONTRACT, WATER WELL	
Source land ownership: PRIVATE	
Water source transport method: TRUCKING	

Operator Name: MEWBOURNE O	COMPANY
Well Name: FULLER 13/12 W2JB I	D COM Well Number: 2H
Source transportation land owr	rship: FEDERAL
Water source volume (barrels):	940 Source volume (acre-feet): 0.2500526
Source volume (gal): 81480	
Water source and transportation r	ip:
Fuller 13 12 W2JB Fed Com 2H_wa	source and transportation map_12-06-2016.pdf
	source and transportation map2_12-06-2016.pdf
Water source comments:	
New water well? NO	
New Water Wel	Info
Well latitude:	Well Longitude: Well datum:
Well target aquifer:	
Est. depth to top of aquifer(ft):	Est thickness of aquifer:
Aquifer comments:	
Aquifer documentation:	
Well depth (ft):	Well casing type:
Well casing outside diameter (in.)	Well casing inside diameter (in.):
New water well casing?	Used casing source:
Drilling method:	Drill material:
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Nater well additional information:	
State appropriation permit:	

Section 6 - Construction Materials

Construction Materials description: Caliche

Construction Materials source location attachment:

Fuller 13 12 W2JB Fed Com 2H_Construction material source and transportation map2_12-06-2016.pdf Fuller 13 12 W2JB Fed Com 2H_Construction material source and transportation map1_12-06-2016.pdf

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drill cuttings

Amount of waste: 940 barrels

Waste disposal frequency : One Time Only

Safe containment description: Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.)

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.

Waste type: SEWAGE

Waste content description: Human waste & grey water

Amount of waste: 1500 gallons

Waste disposal frequency : Weekly

Safe containment description: 2,000 gallon plastic container

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE

FACILITY Disposal type description:

Disposal location description: City of Carlsbad Water Treatment facility

Waste type: GARBAGE

Waste content description: Garbage & trash

Amount of waste: 1500 pounds

Waste disposal frequency : One Time Only

Safe containment description: Enclosed trash trailer

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: PRIVATE FACILITY Disposal type description:

Disposal location description: Waste Management facility in Carlsbad.

Reserve Pit

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

 Reserve Pit being used? NO

 Temporary disposal of produced water into reserve pit?

 Reserve pit length (ft.)
 Reserve pit width (ft.)

 Reserve pit depth (ft.)
 Reserve pit volume (cu. yd.)

 Is at least 50% of the reserve pit in cut?

 Reserve pit liner

 Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO Are you storing cuttings on location? NO Description of cuttings location Cuttings area length (ft.) Cuttings area width (ft.) Cuttings area depth (ft.) Cuttings area volume (cu. yd.) Is at least 50% of the cuttings area in cut? WCuttings area liner Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Fuller 13 12 W2JB Fed Com 2H_well site layout diagram2_08-25-2016.pdf Fuller 13 12 W2JB Fed Com 2H_well site layout diagram_08-25-2016.pdf **Comments:**

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW	
Recontouring attachment:	
Drainage/Erosion control construction: None	
Drainage/Erosion control reclamation: None	
Wellpad long term disturbance (acres): 1.86	Wellpad short term disturbance (acres): 3.43
Access road long term disturbance (acres): 0	Access road short term disturbance (acres): 0
Pipeline long term disturbance (acres): 2.9593663	Pipeline short term disturbance (acres): 2.9593663
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0
Total long term disturbance: 4.8193665	Total short term disturbance: 6.3893666

Reconstruction method: The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

Topsoil redistribution: Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts & fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Soil treatment: NA

Existing Vegetation at the well pad: Various brush & grasses

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Various brush & grasses

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: NA

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: NA

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Operator Name: MEWBOURNE OIL COMPANY Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Seed Management

Seed Table	
Seed type:	Seed source:
Seed name:	
Source name:	Source address:
Source phone:	
Seed cultivar:	
Seed use location:	
PLS pounds per acre:	Proposed seeding season:
Seed Summary	Total pounds/Acre:

Seed Type

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

Pounds/Acre

First Name: Bradley	Last Name: Bishop
Phone: (575)393-5905	Email: bbishop@mewbourne.com

Seedbed prep: Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites. **Seed BMP:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used.

Seed method: drilling or broadcasting seed over entire reclaimed area.

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: NA

Weed treatment plan attachment:

Monitoring plan description: vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled. **Monitoring plan attachment:**

Success standards: regrowth within 1 full growing season of reclamation.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface Ownership

Well Name: FULLER 13/12 W2JB FED COM

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Well Number: 2H

Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland: USFS Ranger District:	

Disturbance type: WELL PAD	
Describe:	
Surface Owner: BUREAU OF LAND MANAGEMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office:	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Well Number: 2H

Section 12 - Other Information

Right of Way needed? NO ROW Type(s): Use APD as ROW?

ROW Applications

SUPO Additional Information: NONE

Use a previously conducted onsite? YES

Previous Onsite information: Met with Nick Franke (BLM) & RRC Surveying & staked location @ 760' FSL & 2100' FEL, Sec 13, T26S, R29E, Eddy Co., NM. This location was moved at the request of BLM to minimize surface disturbance. Moved to 760' FSL & 2030' FEL, Sec 13, T26S, R29E, Eddy Co., NM (Elevation @ 2995'). This appears to be a drillable location with pit area to the E. Topsoil will be stockpiled 30' wide on E side. Reclaim 70' N, E, & W. Battery, if needed, will be on the S. No new road needed. Will share pad with two other Fuller wells. Location is MOA. This will be a 340' x 440' pad. Dry hole marker on SW corner. BLM requests dry hole marker be replaced with ground marker. SWD line approx 1200' W. Gas line will follow existing disturbance approx 1 mile to N

Other SUPO Attachment

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Operator Name: MEWBOURNE OIL COMPANY	
Well Name: FULLER 13/12 W2JB FED COM	Well Number: 2H
Produced Water Disposal (PWD) Location:	<u> </u>
PWD surface owner:	PWD disturbance (acres):
Lined pit PWD on or off channel:	
Lined pit PWD discharge volume (bbl/day):	
Lined pit specifications:	
Pit liner description:	
Pit liner manufacturers information:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	
Lined pit precipitated solids disposal schedule:	
Lined pit precipitated solids disposal schedule atta	chment:
Lined pit reclamation description:	
Lined pit reclamation attachment:	
Leak detection system description:	
Leak detection system attachment:	
Lined pit Monitor description:	
Lined pit Monitor attachment:	
Lined pit: do you have a reclamation bond for the p	it?
is the reclamation bond a rider under the BLM bond	1?
Lined pit bond number:	
Lined pit bond amount:	
Additional bond information attachment:	
Section 3 - Unlined Pits	
Would you like to utilize Unlined Pit PWD options?	NO
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Unlined pit PWD on or off channel:	
Unlined pit PWD discharge volume (bbl/day):	
Unlined pit specifications:	
Precipitated solids disposal:	
Decribe precipitated solids disposal:	
Precipitated solids disposal permit:	

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Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

PWD disturbance (acres):

PWD disturbance (acres):

STORICE

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

Bond Information

Federal/Indian APD: FED BLM Bond number: NM1693 BIA Bond number: Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? BLM reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: Reclamation bond number:

Well Name: FULLER 13/12 W2JB FED COM

Well Number: 2H

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Certification

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.

O) O CIEI (O)

NAME: Bradley Bishop		Signed on: 08/25/2016
Title: Regulatory		
Street Address: PO Box 527	0	
City: Hobbs	State: NM	Zip: 88240
Phone: (575)393-5905		
Email address: bbishop@me	ewbourne.com	
Field Representa	tive	
Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		
	Paj	ment Info
Payment		
APD Fee Payment Method:	PAY.GOV	
pay.gov Tracking ID:	25TKBPNP	

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

Statement Accepting Responsibility for Operations

Operator Name:	Mewbourne Oil Company
Street or Box:	P.O. Box 5270
City, State:	Hobbs, New Mexico
Zip Code:	88241

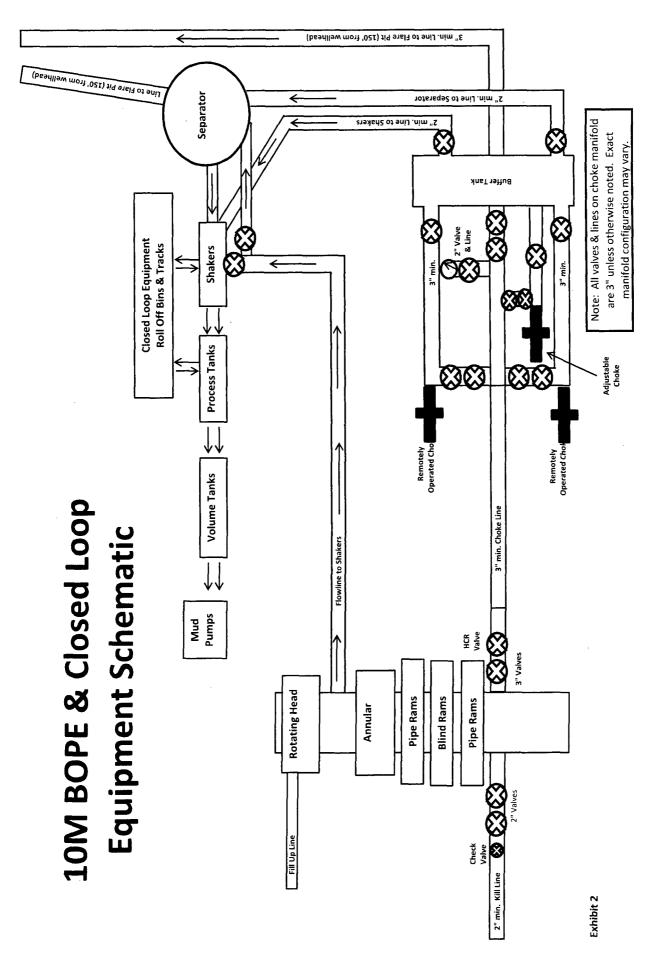
The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Lease Number:	NMLC 061497 – G,J,B Sec 13, NMNM 121953 O,J,G Sec 12 NMNM 57261-B
Legal Description of Land:	Section 13, T-26S, R-29E Eddy County, New Mexico. Location @ 760' FSL & 2030' FEL.
Formation (if applicable):	Brushy Draw Wolfcamp Gas
Bond Coverage:	\$150,000
BLM Bond File:	NM1693 Nationwide, NMB 000919

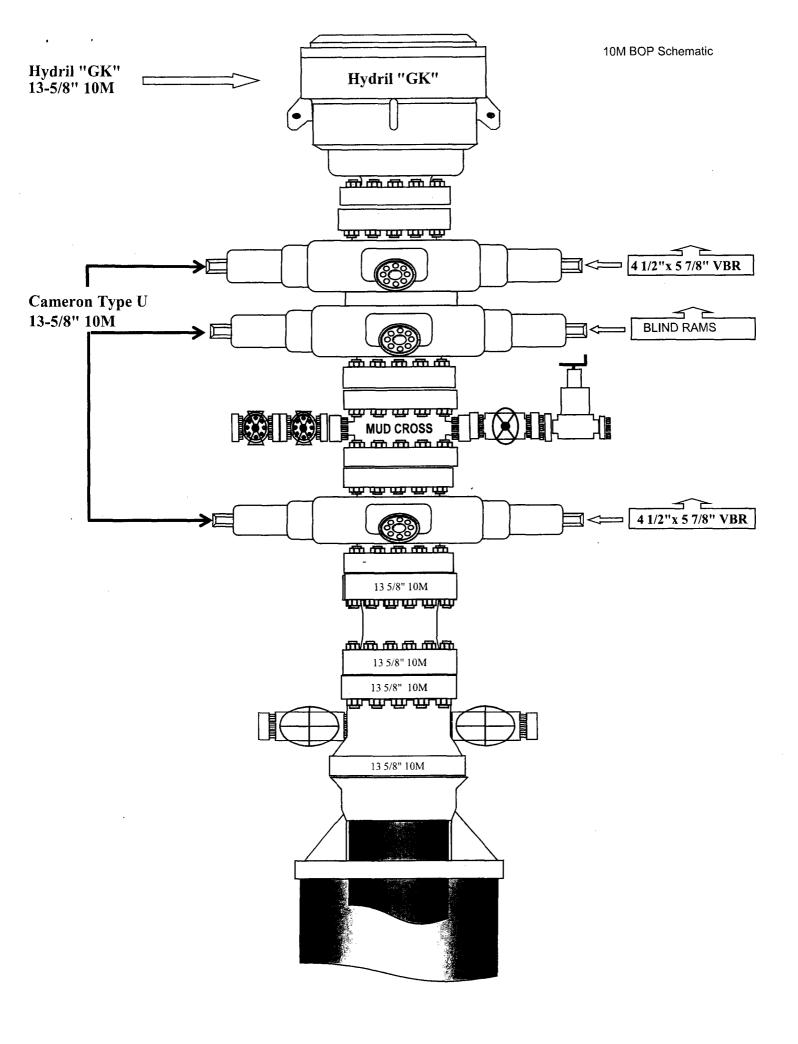
Approved by:

Authorized Signature:

Name: Robin Terrell Title: District Manager Date: <u>08-24-2016</u>.



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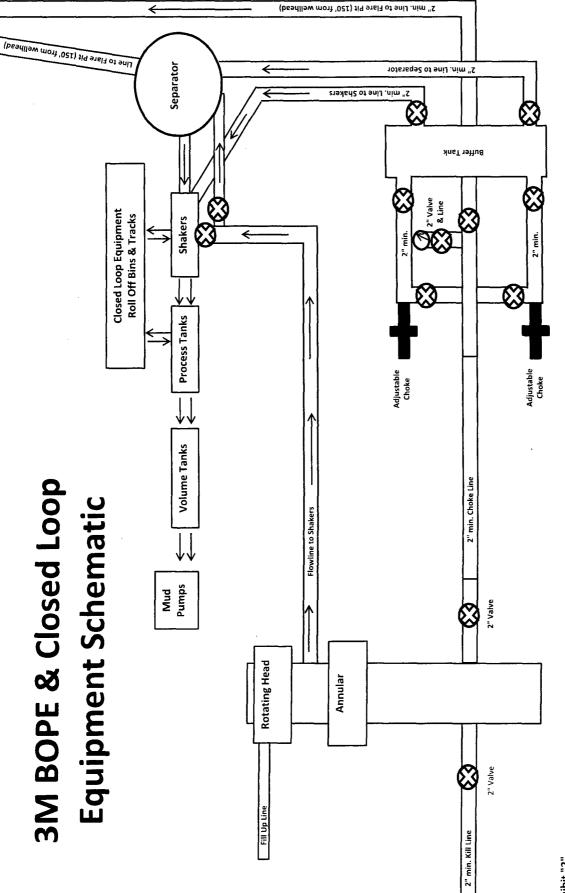


Exhibit "2"

Mewbourne Oil Company BOP Schematic for

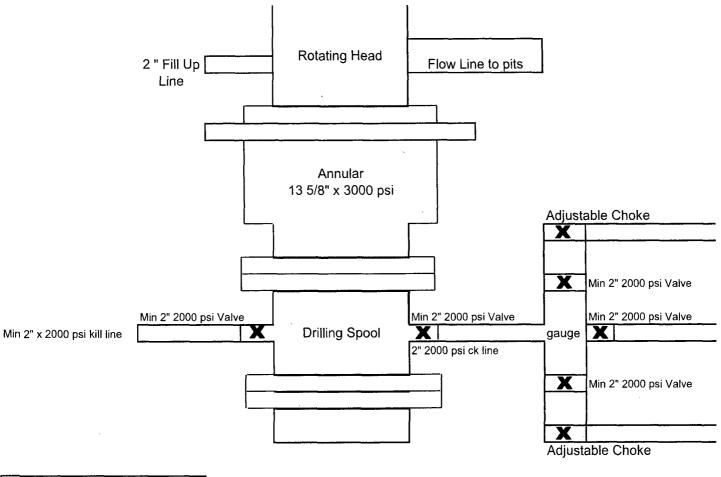
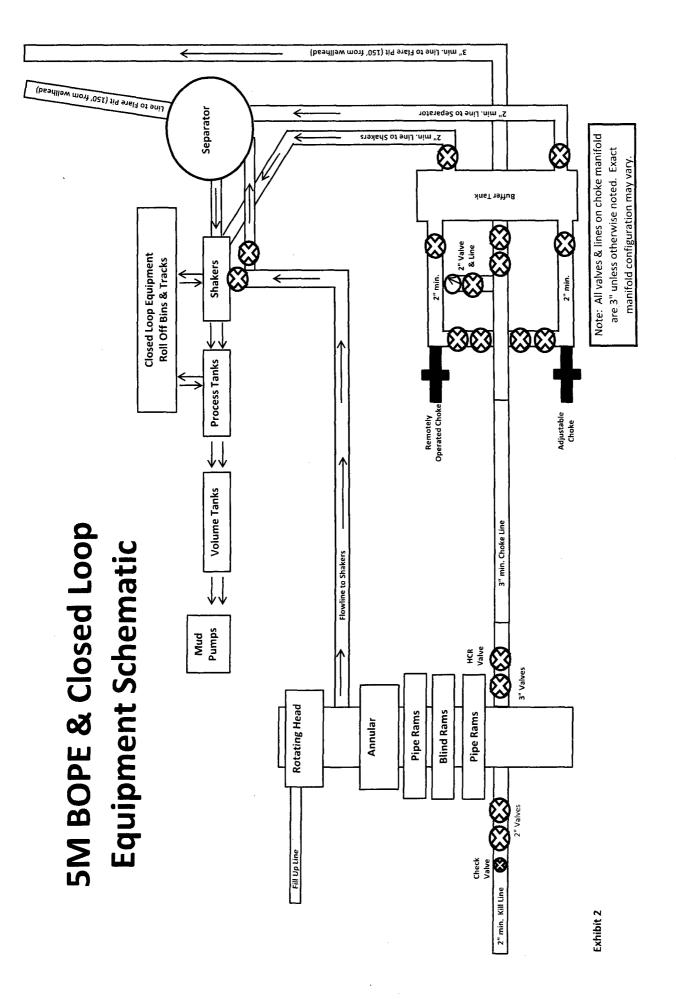
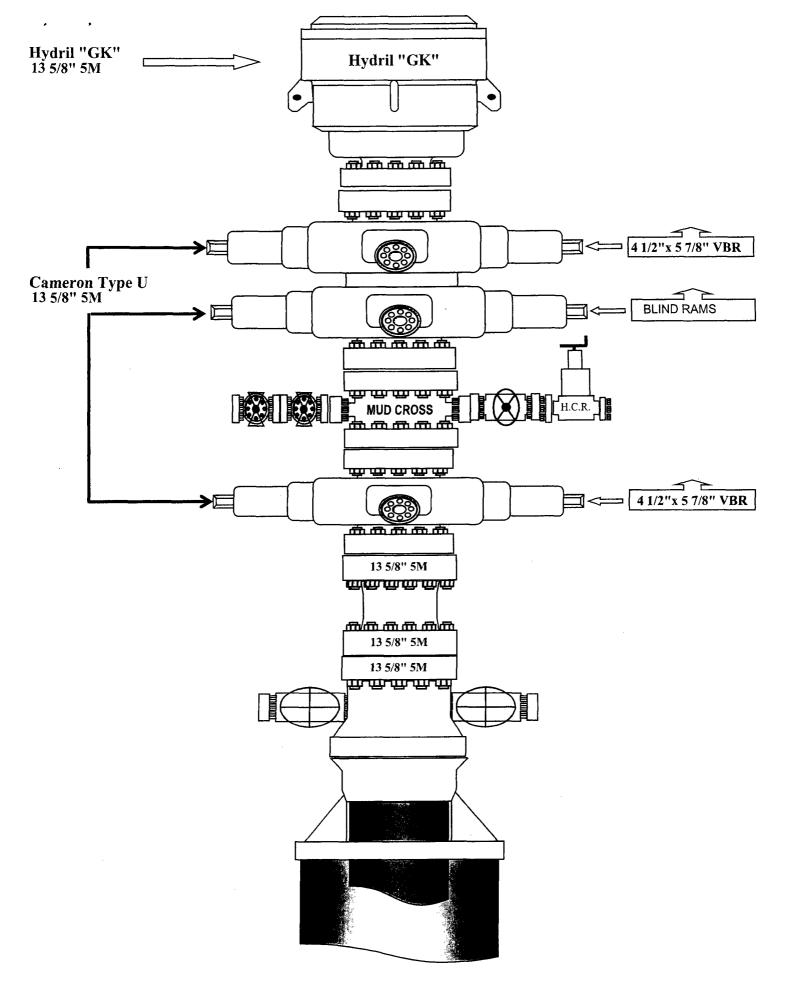


Exhibit #2





Mewbourne Oil Company, Fuller 13/12 W2JB Fed Com #2H Sec 13, T26S, R29E SL: 760' FSL & 2030' FEL, Sec 13 BHL: 330' FNL & 2100' FEL, Sec 12

Casing Program

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF Jt	SF Body
Size	From	То	Size	(lbs)			Collapse	Burst	Tension	Tension
17.5"	0'	725'	13.375"	48	H40	STC	2.04	4.59	9.25	15.55
12.25"	0'	3050'	9.625"	36	J55	LTC	1.27	2.22	4.13	5.14
8.75"	0'	11500'	7"	26	HCP110	LTC	1.40	1.79	2.17	2.78
6.125"	10710'	20640'	4.5"	13.5	P110	LTC	1.39	1.62	2.52	3.15
	· · · · · · · · · · · · · · · · · · ·			BLM Min	imum Safet	y Factor	1.125	1	1.6 Dry	1.6 Dry
						-			1.8 Wet	1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company

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 Delaware 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:

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the 9 5/8" intermediate casing.

- 1. Well Control Equipment
 - A. Choke manifold with minimum of one adjustable choke/remote choke.
 - B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
 - C. Auxiliary equipment including annular type blowout preventer.
- 2. Protective Equipment for Essential Personnel
 - Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

- 3. <u>Hydrogen Sulfide Protection and Monitoring Equipment</u> Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.
- 4. <u>Visual Warning Systems</u>

A. Wind direction indicators as indicated on the wellsite diagram.

B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

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

5. Metallurgy

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

6. Communications

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

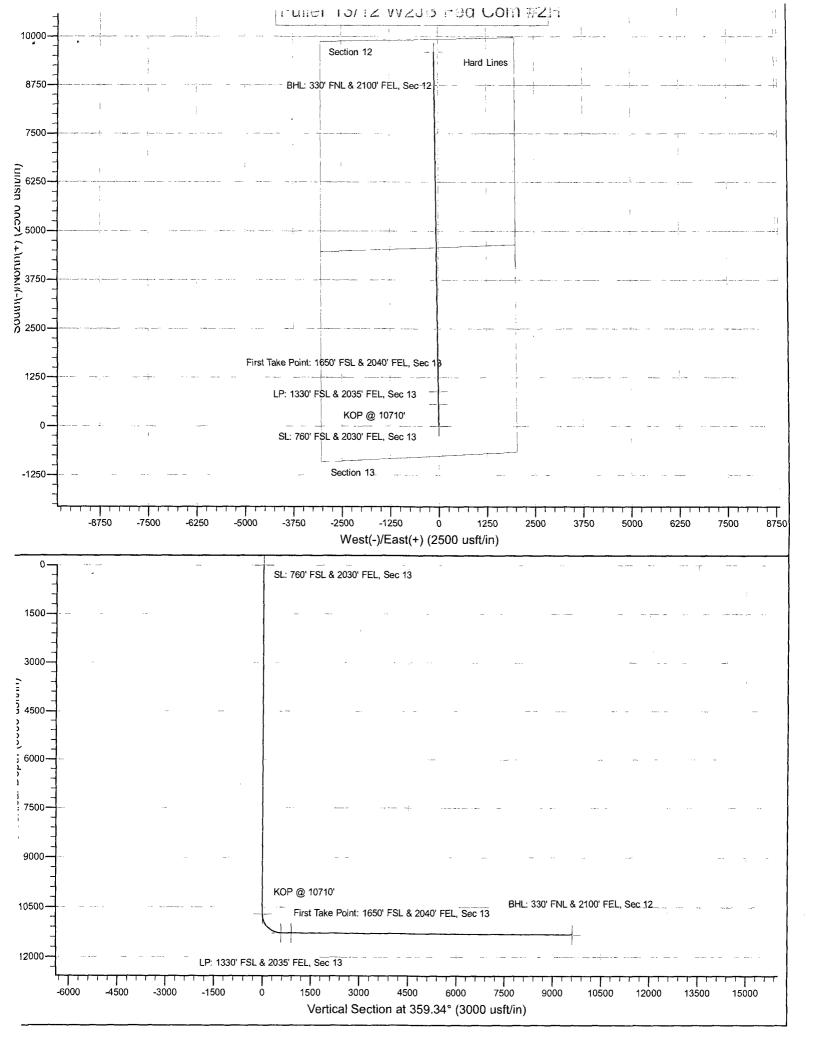
7. Well Testing

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

8. Emergency Phone Numbers

Eddy County Sheriff's Office911 or 575-887-7551Ambulance Service911 or 575-885-2111Carlsbad Fire Dept911 or 575-885-2111Loco Hills Volunteer Fire Dept.911 or 575-677-3266Closest Medical Facility - Columbia Medical Center of Carlsbad575-492-5000

Mewbourne Oil Company	Hobbs District Office Fax 2 nd Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729



Mewbourne Oil Company

Eddy County, New Mexico Fuller 13/12 W2JB Fed Com #2H Sec 13, T26S, R29E SL: 760' FSL & 2030' FEL, Sec 13 BHL: 330' FNL & 2100' FEL, Sec 12

Plan: Design #1

Standard Planning Report

29 August, 2016

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Eddy Fuller Sec 1	oourne Oil Com County, New M 13/12 W2JB F 3, T26S, R29E 330' FNL & 210	lexico ed Com #2H	:	TVD Refer MD Refere North Refe	ance:		Site Fuller 13/12 WELL @ 3022.0 WELL @ 3022.0 Grid Minimum Curvati	usft (Original usft (Original	Well Elev)
Project	Eddy (County, New Me	exico						···	
Map System: Geo Datum: Map Zone:	NAD 19	e Plane 1927 (E 27 (NADCON C xico East 3001			System Dat	tum:	Me	ean Sea Level		
Site	Fuller	13/12 W2JB Fe	d Com #2H							
Site Position: From: Position Uncer	Ma tainty:	•	North Eastir 0 usft Slot R	-		,359.00 usft ,344.00 usft 13-3/16 "	Latitude: Longitude: Grid Converg	ence:		32° 2' 12.659 N 103° 56' 7.025 W 0.21 °
Well	Sec 13	, T26S, R29E								
Well Position	+N/-S +E/-W	C	0.0 usft Ea	orthing: isting:		377,359.00 623,344.00) usft Lor	itude: ngitude:		32° 2' 12.659 N 103° 56' 7.025 W
Position Uncer				elihead Eleva	ation:	3,022.0	Justi Gro	ound Level:		2,995.0 usft
Wellbore Magnetics		330' FNL & 210 odel Name	·	e Date	Declina (°)		-	Angle °)		Strength (nT)
		IGRF200510		2/31/2009		7.90	<u> </u>	60.00		48,642
Design Audit Notes:	Desigr	ו #1								
Version: Vertical Section	n:	ſ	Phas Depth From (T (usft) 0.0		PROTOTYPE +N/-S (usft) 0.0	+E (L	e On Depth: E/-W Isft) D.0	Dire	0,0 ection (°) 9.34	
Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0 10,710.0 11,607.4	0.00 0.00 89.73	0.00 0.00 359.34	0.0 10,710.0 11,283.0	0.0 0.0 570.3	0.0	0.00 0.00 10.00	0.00 0.00 10.00	0.00 0.00 0.00	0.00 0.00 -0.66) KOP @ 10710'
20,637.8	89.73	359.34	11,325.0	9,600.0		0.00	0.00	0.00		0 BHL: 330' FNL & 210(

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Database:HobbsCompany:Mewbourne Oil CompanyProject:Eddy County, New MexicoSite:Fuller 13/12 W2JB Fed Com #2HWell:Sec 13, T26S, R29EWellbore:BHL: 330' FNL & 2100' FEL, Sec 12Design:Design #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Site Fuller 13/12 W2JB Fed Com #2H WELL @ 3022.0usft (Original Well Elev) WELL @ 3022.0usft (Original Well Elev) Grid Minimum Curvature

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	Measured Depth	Inclination	Azimuth	Vertica) Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
		. & 2030' FEL, Se								
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
	300.0 400.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
i	500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
2	600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	00.0	00.0
i	1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
i i	1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1	1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Ì	2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1	2,200.0	0,00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
İ	2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
i.	2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
i	3,000.0	0.00	0.00	3,000.0	0.0					
	3,100.0	0.00	0.00	3,000.0	0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
	3,200,0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1	3,500,0	0.00	0.00	3,500.0	0.0				0.00	0.00
	3,600.0	0.00	0.00	3,600.0	0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00
	3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
	3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
!	4,000.0									
	4,000.0	0.00 0.00	0.00 0.00	4,000.0 4,100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
1	4,100.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
I	4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
	4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
	4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
I.	4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
	5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Database: Company:	Hobbs Mewbourne Oil Company
Project: Site:	Eddy County, New Mexico Fuller 13/12 W2JB Fed Com #2H
Well:	Sec 13, T26S, R29E
Wellbore:	BHL: 330' FNL & 2100' FEL, Sec 12
Design:	Design #1

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Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Site Fuller 13/12 W2JB Fed Com #2H WELL @ 3022.0usft (Original Well Elev) WELL @ 3022.0usft (Original Well Elev) Grid Minimum Curvature

5.300 0 0.00 5.300 0 0.0 0.00		Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
	L L	5 300 0	0.00	0.00	5 300 0	0.0	0.0	0.0	0.00	0.00	0.00	1
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6,100.0 0.00 6,200.0 0.00 6,200.0 0.00 6,200.0 0.00 6,200.0 0.00 6,200.0 0.0		5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
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7,700.0 0.00 7,700.0 0.0 0.0 0.00		7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	!
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9,300.0 0.00 0.00 9,300.0 0.0 0.0 0.00		9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
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9,600.0 0.00 0.00 9,600.0 0.00		9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
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9,900.0 0.00 0.00 9,900.0 0.0 0.0 0.0 0.00	1	9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0 0.00 0.00 10,000.0 0.0 0.0 0.0 0.00		9,900.0	0.00		9,900.0		0.0			0.00	0.00	
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Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 13/12 W2JB Fed Com #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3022.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3022.0usft (Original Well Elev)
Site:	Fuller 13/12 W2JB Fed Com #2H	North Reference:	Grid
Well: Wellbore: Design:	Sec 13, T26S, R29E BHL: 330' FNL & 2100' FEL, Sec 12 Design #1	Survey Calculation Method:	Minimum Curvature

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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usfi
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.
10,710.0	0.00	0.00	10,710.0	0.0	0.0	0.0	0.00	0.00	0.
KOP @ 1071		0.00	10,710.0	0.0	0.0	0.0	0.00	0.00	0.
10,800.0	9.00	359.34	10,799.6	7.0	-0.1	7.0	10.00	10.00	0.
10,000.0	9.00		10,795.0						
10,900.0	19.00	359.34	10,896.5	31.2	-0.4	31.2	10.00	10.00	0.
11,000.0	29.00	359.34	10,987.8	71.8	-0.8	71.8	10.00	10.00	0.
11,100.0	39.00	359.34	11,070.6	127.7	-1.5	127.7	10.00	10.00	0.
11,200.0	49.00	359.34	11,142.4	197.0	-2.3	197.0	10.00	10.00	0.
11,300.0	59.00	359.34	11,201.1	277.8	-3.2	277.8	10.00	10.00	0.
11,400.0	68.99	359.34	11,244.9	367.6	-4.2	367.6	10.00	10.00	0
11,500.0	78.99	359.34	11,272.5	463.6	-5.4	463.6	10.00	10.00	0
11,600.0	88.99	359.34	11,282.9	562.9	-6.5	562.9	10.00	10.00	0
11,607.4	89.73	359.34	11,283.0	570.3	-6.6	570.3	9.95	9,95	0
LP: 1330' FS	6L & 2035' FEL, S	Sec 13							
11,700.0	89.73	359.34	11,283.4	662.9	- 7.7	662.9	0.00	0.00	0
11,800.0	89.73	359.34	11,283.9	762.9	-8.8	762.9	0.00	0.00	0
11,900.0	89.73	359.34	11,284.4	862.9	-10.0	862.9	0.00	0.00	0
11,927.1	89.73	359.34	11,284.5	890.0	-10.3	890.1	0.00	0.00	0
	oint: 1650' FSL &	8 2040' FEL. Se	•						
12,000.0	89.73	359.34	11,284.8	962.8	-11.1	962.9	0.00	0.00	0
12,100.0	89.73	359.34	11,285.3	1,062.8	-12.3	1,062.9	0.00	0.00	0
12,200.0	89.73	359.34	11,285.8	1,162.8	-13.4	1,162.9	0.00	0.00	0
12,300.0 12,400.0	89.73 89.73	359.34 359.34	11,286.2 11,286.7	1,262.8 1,362.8	-14.6 -15.8	1,262.9	0.00	0.00 0.00	0
12,400.0	89.73	359.34	11,287.2	1,362.8	-15.8	1,362.9 1,462.9	0.00 0.00	0.00	0
12,600.0	89.73	359.34	11,287.6	1,562.8	-18.1	1,562.9	0.00	0.00	0
12,700.0 12,800.0	89,73 89,73	359.34 359.34	11,288.1 11,288.5	1,662.8 1,762.8	-19.2 -20.4	1,662.9 1,762.9	0.00 0.00	0.00 0.00	0
12,800.0	89.73	359.34	11,289.0	1,762.8	-20.4 -21.5	1,862.9	0.00	0.00	0
13,000.0	89.73	359.34	11,289.5	1,962.8	-21.3	1,962.9	0.00	0.00	. 0
13,100.0	89.73	359.34	11,289.9	2,062.8	-23.9	2,062.9	0.00	0.00	0
13,200.0	89.73	359.34	11,290.4	2,162.8	-25.0	2,162.9	0.00	0.00	0
13,300.0	89.73	359.34	11,290.9	2,262.7	-26.2	2,262.9	0.00	0.00	0
13,400.0	89.73	359.34	11,291.3	2,362.7	-27.3	2,362.9	0.00	0.00	0
13,500.0 13,600.0	89.73 89.73	359.34 359.34	11,291.8 11,292.3	2,462.7	-28.5	2,462.9	0.00	0.00	0 0
				2,562.7	-29.6	2,562.9	0.00	0.00	
13,700.0	89.73	359.34	11,292.7	2,662.7	-30.8	2,662.9	0.00	0.00	0
13,800.0	89.73	359.34	11,293.2	2,762.7	-31.9	2,762.9	0.00	0.00	0
13,900.0	89.73	359.34	11,293.7	2,862.7	-33.1	2,862.9	0.00	0.00	0
14,000.0	89.73	359.34	11,294.1	2,962.7	-34.3	2,962.9	0.00	0.00	0
14,100.0	89.73	359.34	11,294.6	3,062.7	-35.4	3,062.9	0.00	0.00	0
14,200.0	89.73	359.34	11,295.1	3,162.7	-36.6	3,162.9	0.00	0.00	0
14,300.0	89.73	359.34	11,295.5	3,262.7	-37.7	3,262.9	0.00	0.00	0
14,400.0	89.73	359.34	11,296.0	3,362.7	-38.9	3,362.9	0.00	0.00	0
14,500.0	89.73	359.34	11,296.5	3,462.7	-40.0	3,462.9	0.00	0.00	0
14,600.0	89.73	359.34	11,296. 9	3,562.6	-41.2	3,562.9	0.00	0.00	0
14,700.0	89.73	359.34	11,297.4	3,662.6	-42.3	3,662.9	0.00	0.00	0
14,800.0	89.73	359.34	11,297.8	3,762.6	-43.5	3,762.9	0.00	0.00	0
14,900.0	89.73	359.34	11,298.3	3,862.6	-44.7	3,862.9	0.00	0.00	0
15,000.0	89.73	359.34	11,298.8	3,962.6	-45.8	3,962.9	0.00	0.00	0
15,100.0	89.73	359.34	11,299.2	4,062.6	-47.0	4,062.9	0.00	0.00	0
15,200.0	89.73	359.34	11.299.7	4,162.6	-48.1	4,162.9	0.00	0.00	0.
15,200.0	89.73	359.34	11,299.7	4,162.6	-40.1	4,162.9	0.00	0.00	0.

Database: Company: Project:	Hobbs Mewbourne Oil Company Eddy County, New Mexico
Site:	Fuller 13/12 W2JB Fed Com #2H
Well:	Sec 13, T26S, R29E
Wellbore:	BHL: 330' FNL & 2100' FEL, Sec 12
Design:	Design #1

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Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Site Fuller 13/12 W2JB Fed Com #2H WELL @ 3022.0usft (Original Well Elev) WELL @ 3022.0usft (Original Well Elev) Grid Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
					• •				
15,400.0	89.73	359.34	11,300.6	4,362.6	-50.4	4,362.9	0.00	0.00	0.00
15,500.0	89.73	359.34	11,301.1	4,462.6	-51.6	4,462.9	0.00	0.00	0.00
15,600.0	89.73	359.34	11,301.6	4,562.6	-52.8	4,562.9	0.00	0.00	0.00
15,700.0	89.73	359.34	11,302.0	4,662.6	-53.9	4,662.9	0.00	0.00	0.00
15,800.0	89.73	359.34	11,302.5	4,762.5	-55.1	4,762.9	0.00	0.00	0.00
15,900.0	89.73	359.34	11,303.0	4,862.5	-56.2	4,862.9	0.00	0.00	0.00
16,000.0	89.73	359.34	11,303.4	4,962.5	-57.4	4,962.9	0.00	0.00	0.00
16,100.0	89.73	359.34	11,303.9	5,062.5	-58,5	5,062.9	0.00	0.00	0.00
16,200.0	89.73	359.34	11,304.4	5,162.5	-59.7	5,162.9	0.00	0.00	0.00
16,300.0	89.73	359.34	11,304.8	5,262.5	-60.8	5,262.9	0.00	0.00	0.00
16,400.0	89.73	359.34	11,305.3	5,362.5	-62.0	5,362.9	0.00	0.00	0.00
16,500.0	89.73	359.34	11,305.8	5,462.5	-63.2	5,462.9	0.00	0.00	0.00
16,600.0	89.73	359.34	11,306.2	5,562.5	-64.3	5,562.9	0.00	0.00	0.00
16,700.0	89.73	359.34	11,306.7	5,662.5	-65.5	5,662.9	0.00	0.00	0.00
16,800.0	89.73	359.34	11,307.2	5,762.5	-66.6	5,762.9	0.00	0.00	0,00
16,900.0	89.73	359.34	11,307.6	5,862.5	-67.8	5,862.9	0.00	0.00	0.00
17,000.0	89.73	359.34	11,308.1	5,962.5	-68.9	5,962.9	0.00	0.00	0.00
17,100.0	89.73	359.34	11,308.5	6,062.4	-70.1	6,062.9	0.00	0.00	0.00
17,200.0	89.73	359.34	11,309.0	6,162.4	-71.3	6,162.9	0.00	0.00	0.00
17,300.0	89.73	359.34	11,309.5	6,262.4	-72.4	6,262.9	0.00	0.00	0.00
17,400.0	89.73	359.34	11,309.9	6,362.4	-73.6	6,362.9	0.00	0.00	0.00
17,500.0	89.73	359.34	11,310.4	6,462.4	-74.7	6,462.8	0.00	0.00	0.00
17,600.0	89.73	359.34	11,310.9	6,562.4	-75.9	6,562.8	0.00	0.00	0.00
17,700.0	89.73	359.34	11,311.3	6,662.4	-77.0	6,662.8	0.00	0.00	0.00
17,800.0	89.73	359.34	11,311.8	6,762.4	-78.2	6,762.8	0.00	0.00	0.00
17,900.0	89.73	359.34	11,312.3	6,862.4	-79.3	6,862.8	0.00	0.00	0.00
18,000.0	89.73	359.34	11,312.7	6,962.4	-80.5	6,962.8	0.00	0.00	0.00
18,100.0	89.73	359.34	11,313.2	7,062.4	-81.7	7,062.8	0.00	0.00	0.00
18,200.0	89.73	359.34	11,313.7	7,162.4	-82.8	7,162.8	0.00	0.00	0.00
18,300.0	89.73	359.34	11,314 <i>.</i> 1	7,262.4	-84.0	7,262.8	0.00	0.00	0.00
18,400.0	89.73	359.34	11,314.6	7,362.3	-85.1	7,362.8	0.00	0.00	0.00
18,500.0	89.73	359.34	11,315.1	7,462.3	-86.3	7,462.8	0.00	0.00	0.00
18,600.0	89.73	359.34	11,315.5	7,562.3	-87.4	7,562.8	0.00	0.00	0.00
18,700.0	89.73	359.34	11,316.0	7,662.3	-88.6	7,662.8	0.00	0.00	0.00
18,800.0	89.73	359.34	11,316.5	7,762.3	-89.8	7,762.8	0,00	0.00	0.00
18,900.0	89.73	359,34	11,316.9	7,862.3	-90.9	7,862.8	0.00	0.00	0.00
19,000.0	89.73	359.34	11,317.4	7,962.3	-92.1	7,962.8	0.00	0.00	0.00
19,100.0	89.73	359.34	11,317.8	8,062.3	-93.2	8,062.8	0,00	0.00	0.00
19,200.0	89.73	359.34	11,318.3	8,162.3	-94.4	8,162.8	0.00	0.00	0.00
19,300.0	89.73	359.34	11,318.8	8,262.3	-95.5	8,262.8	0.00	0.00	0.00
19,400.0	89.73	359.34	11,319.2	8,362.3	-96.7	8,362.8	0.00	0.00	0.00
19,500.0	89.73	359.34	11,319.7	8,462.3	-97.8	8,462.8	0.00	0.00	0.00
19,600.0	89.73	359.34	11,320.2	8,562.3	- 99.0	8,562.8	0.00	0.00	0.00
19,700.0	89.73	359.34	11,320.6	8,662.2	-100.2	8,662.8	0.00	0.00	0.00
19,800.0	89.73	359.34	11,321.1	8,762.2	-101.3	8,762.8	0.00	0.00	0.00
19,900.0	89.73	359.34	11,321.6	8,862.2	-102,5	8,862.8	0.00	0.00	0.00
20,000.0	89.73	359.34	11,322.0	8,962.2	-103.6	8,962.8	0.00	0.00	0.00
20,100.0	89.73	359.34	11,322.5	9,062.2	-104.8	9,062.8	0.00	0.00	0.00
20,200.0	89.73	359.34	11,323.0	9,162.2	-105.9	9,162.8	0.00	0.00	0.00
20,300.0	89.73	359.34	11,323.4	9,262.2	-107.1	9,262.8	0.00	0.00	0.00
20,400.0	89.73	359.34	11,323.9	9,362.2	-108.3	9,362.8	0.00	0.00	0.00
20,500.0	89.73	359.34	11,324.4	9,462.2	-109.4	9,462.8	0.00	0.00	0.00
20,600.0	89.73	359.34	11,324.8	9,562.2	-110.6	9,562.8	0.00	0.00	0.00
	89.73	359.34			-111.0		0.00		

Database: Company: Project: Site: Well: Well: Wellbore:	Hobbs Mewbourne Oil Company Eddy County, New Mexico Fuller 13/12 W2JB Fed Com #2H Sec 13, T26S, R29E BHL: 330' FNL & 2100' FEL, Sec 12	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Site Fuller 13/12 W2JB Fed Com #2H WELL @ 3022.0usft (Original Well Ele WELL @ 3022.0usft (Original Well Ele Grid Minimum Curvature
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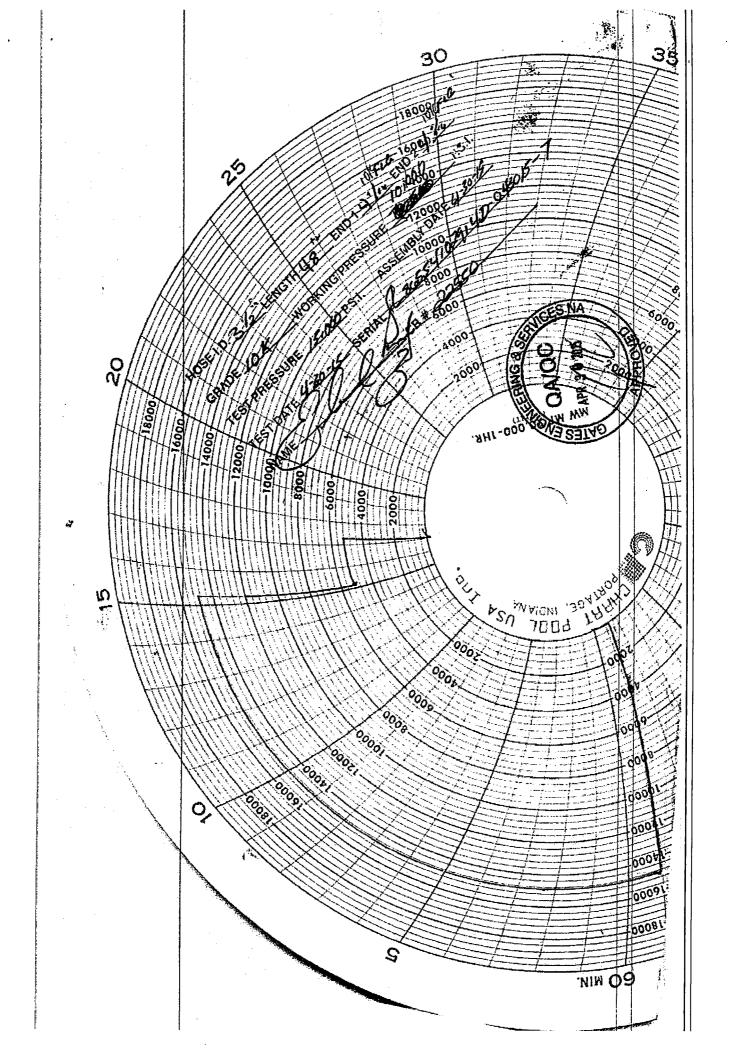
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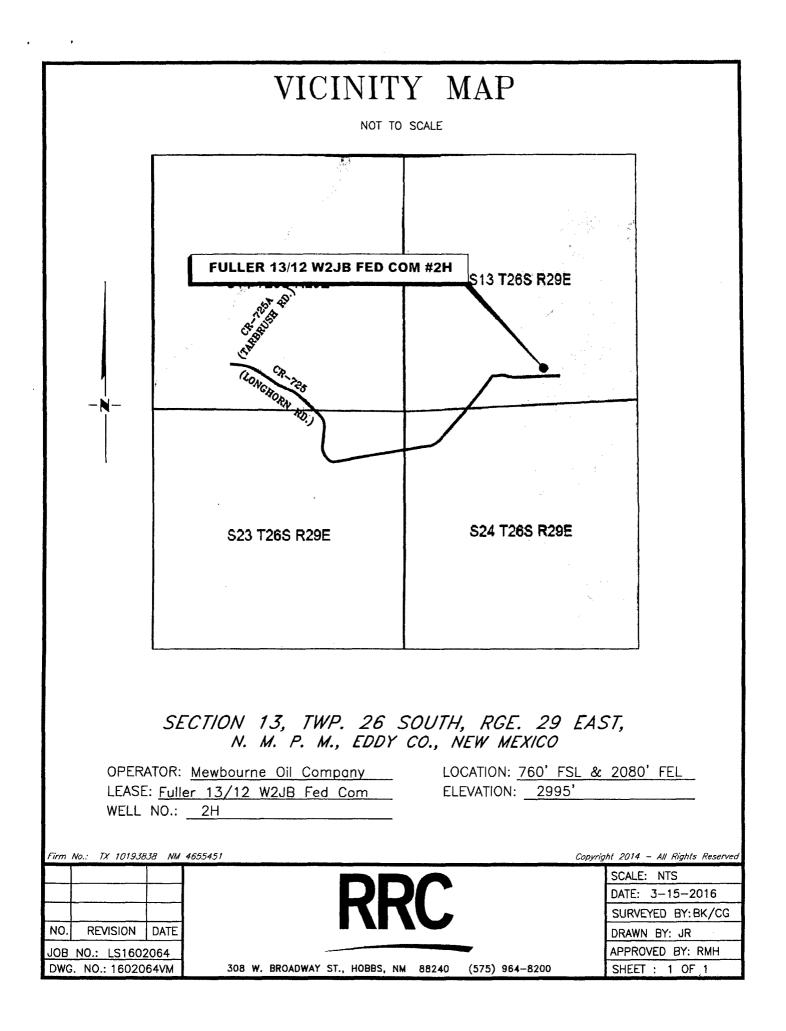
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)

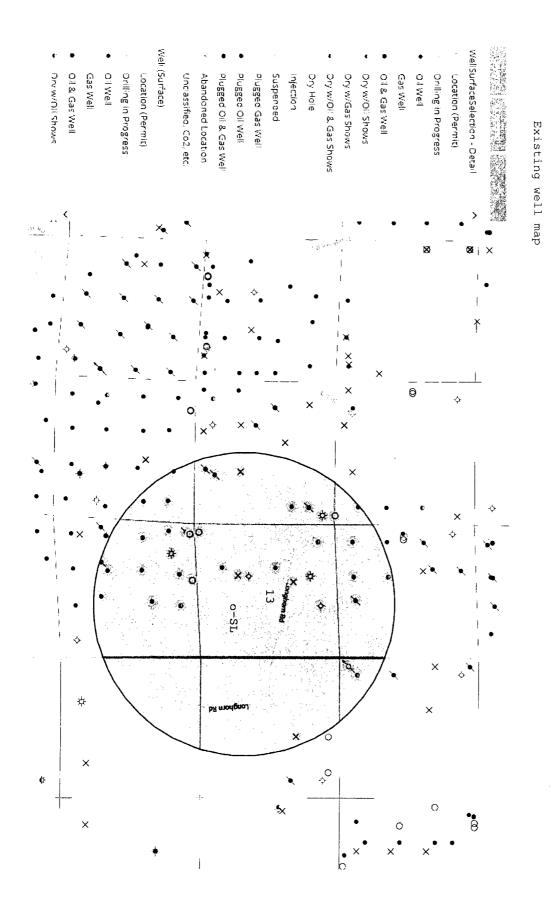
Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 760' FSL & 2030' FE - plan hits target cent - Point	0.00 er	0.00	0.0	0.0	0.0	377,359.00	623,344.00	32° 2' 12.659 N	103° 56' 7.025 W
KOP @ 10710' - plan hits target cent - Point	0.00 er	0.00	10,710.0	0.0	0.0	377,359.00	623,344.00	32° 2' 12.659 N	103° 56' 7.025 W
LP: 1330' FSL & 2035' F - plan hits target cent - Point	0.00 er	0.00	11,283.0	570.3	-6.6	377,929.30	623,337.40	32° 2' 18.303 N	103° 56' 7.077 W
First Take Point: 1650' F - plan hits target cent - Point	0.00 er	0.00	11,284.5	890.0	-10.3	378,249.00	623,333.71	32° 2' 21.467 N	103° 56' 7.107 W
BHL: 330' FNL & 2100' F - plan hits target cent - Point	0.00 er	0.00	11,325.0	9,600.0	-111.0	386,959.00	623,233.00	32° 3' 47.669 N	103° 56' 7.904 W

Finten				
TES E & S NORT 44TH STREET RPUS CHRISTI		-		PHONE: 361-887-9807 FAX: 361-887-0812 EMAIL: <i>Tim.Cantu@gates.com</i> WEB: www.gates.com
10K C	EMENTIN	NG ASSEMBL	Y PRESSURE	EST CERTIFICATE
istomer :	ALISTIA	N DISTRIBUTING	Test Date:	4/30/2015
istomer Ref. :		4060578	Hose Serial No.:	D-043015-7
voice No. :		500506	Created By:	JUSTIN CROPPER
roduct Description:			10K3.548.0CK4.1/1610KFL0	SE/E LE
nd Fitting 1 :	41	/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
iates Part No. :		4773-6290	Assembly Code :	L36554102914D-043015-7
orking Pressure :		10,000 PSI	Test Pressure :	15,000 PSI
the Gates Oil	North Amer field Roughn	eck Agreement/Sp	pecification requirem	ose assembly has been tested to ents and passed the 15 minute ast pressure 9.6.7 and per Table 9
the Gates Oil hydrostatic test	North Amer field Roughn t per API Spe in accordance	eck Agreement/Sp ec 7K/Q1, Fifth Ed ce with this produc	becification requiren ition, June 2010, Te	nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the
the Gates Oil hydrostatic test	North Amer field Roughn t per API Spe in accordance	eck Agreement/Sp ec 7K/Q1, Fifth Ed ce with this produc	becification requiren ition, June 2010, Te ct number. Hose bu	nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the
the Gates Oil hydrostatic test to 15,000 psi	North Amer field Roughn t per API Spe in accordanc minim	eck Agreement/Sp ec 7K/Q1, Fifth Ed ce with this produc	becification requiren ition, June 2010, Te ct number. Hose bu	nents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the
the Gates Oil hydrostatic test to 15,000 psi	North Amer field Roughn t per API Spe in accordanc minim	eck Agreement/Sp ec 7K/Q1, Fifth Edi ce with this produc um of 2.5 times th	becification requiren ition, June 2010, Te ct number. Hose bu ne working pressure	nents and passed the 15 minute est pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9.
the Gates Oil hydrostatic test	North Amer field Roughn t per API Spe in accordanc minim	eck Agreement/Sp ec 7K/Q1, Fifth Edi ce with this produc um of 2.5 times th	pecification requiren ition, June 2010, Te ct number. Hose bu ne working pressure Produciton:	Pents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION
the Gates Oil hydrostatic test to 15,000 psi Quality Manager : Date :	North Amer field Roughn t per API Spe in accordanc minim	eck Agreement/Sp ec 7K/Q1, Fifth Edi ce with this produc um of 2.5 times th	pecification requiren ition, June 2010, Te ct number. Hose bu ne working pressure Produciton: Date :	Pents and passed the 15 minute st pressure 9.6.7 and per Table 9 rst pressure 9.6.7.2 exceeds the per Table 9. PRODUCTION







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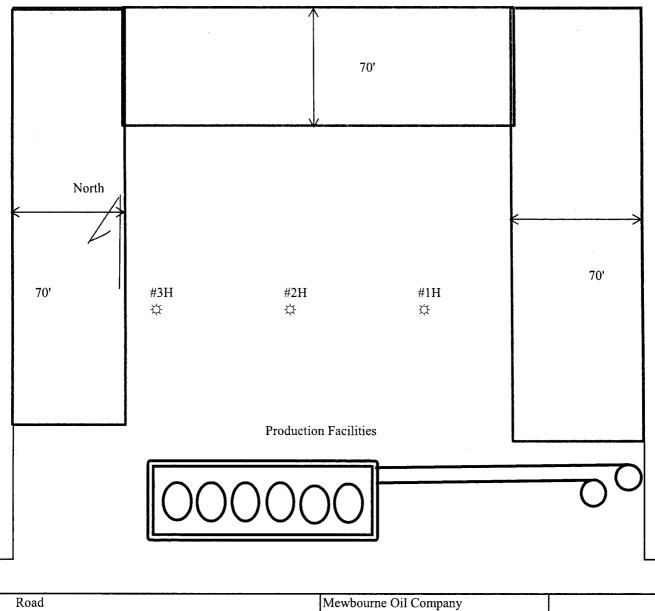
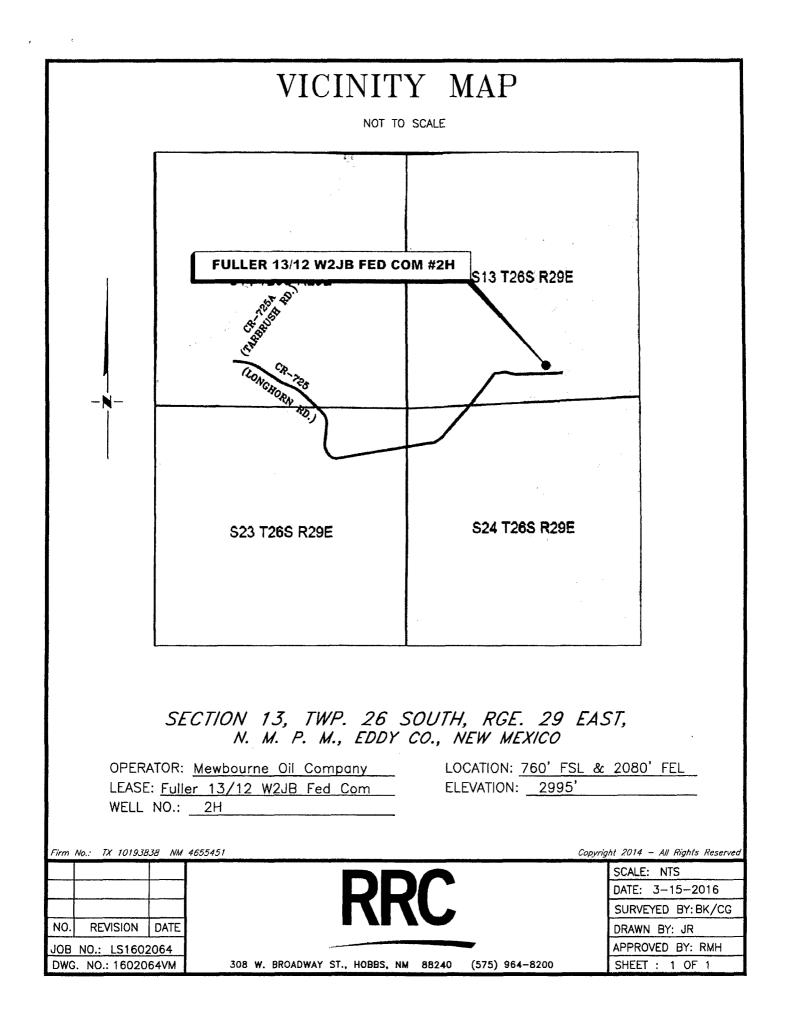


Exhibit 6

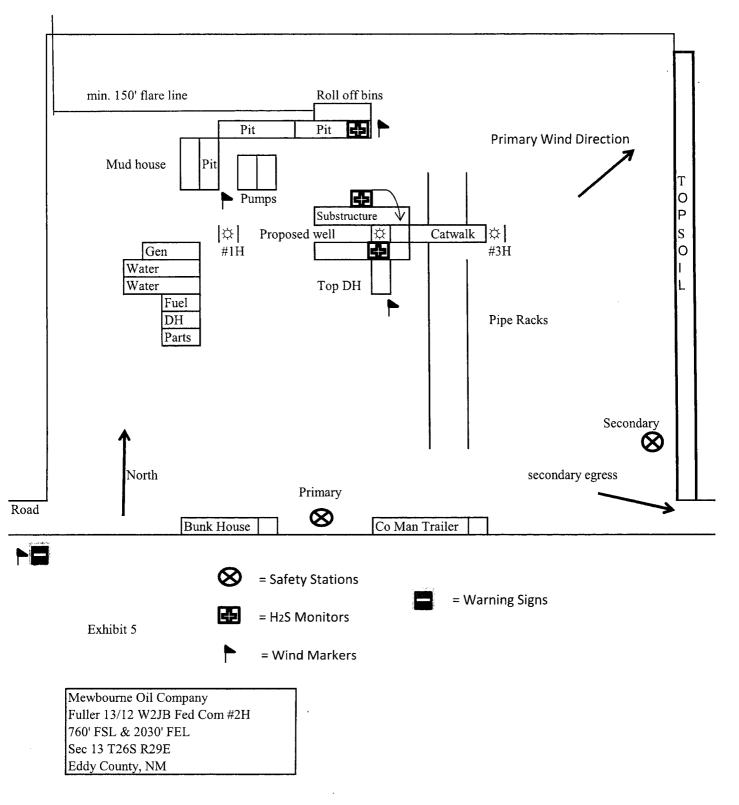
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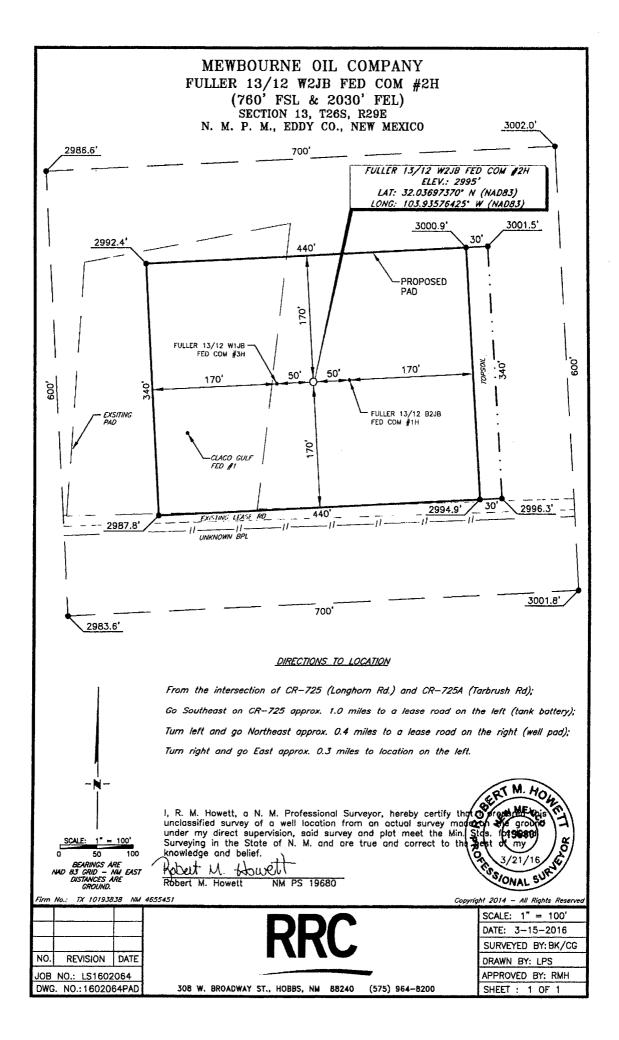
Mewbourne Oil Company Fuller 13/12 W2JB Fed Com #2H 760' FSL & 2030' FEL Sec 13 T26S R29E Eddy Co. NM



H2S Diagram



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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMLC061497
WELL NAME & NO.:	2H- Fuller 13/12 W2JB Fed Com
SURFACE HOLE FOOTAGE:	760'/S & 2030'/E
BOTTOM HOLE FOOTAGE	330'/N & 2100'/E, 12
LOCATION:	Section 13 T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

TABLE OF CONTENTS

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

General Provisions
Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Desert Heronries ACEC
Cave/Karst
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Electric Lines
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)

Desert Heronries

Surface disturbance will not be allowed within up to 400 meters of active heronries. Disturbing nesting herons shall be avoided by moving the activity outside of the 400 meter boundary or by delaying activity for up to 120 days, or a combination of both. Exhaust noise from engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

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 entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

Tank Battery Liners and Berms:

Tank battery locations and all facilities 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 $1\frac{1}{2}$ 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.

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) 234-5909 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 strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area 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. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) 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

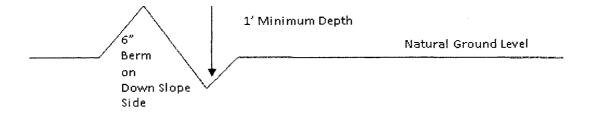
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route 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 cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted 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 fences.

Public Access

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

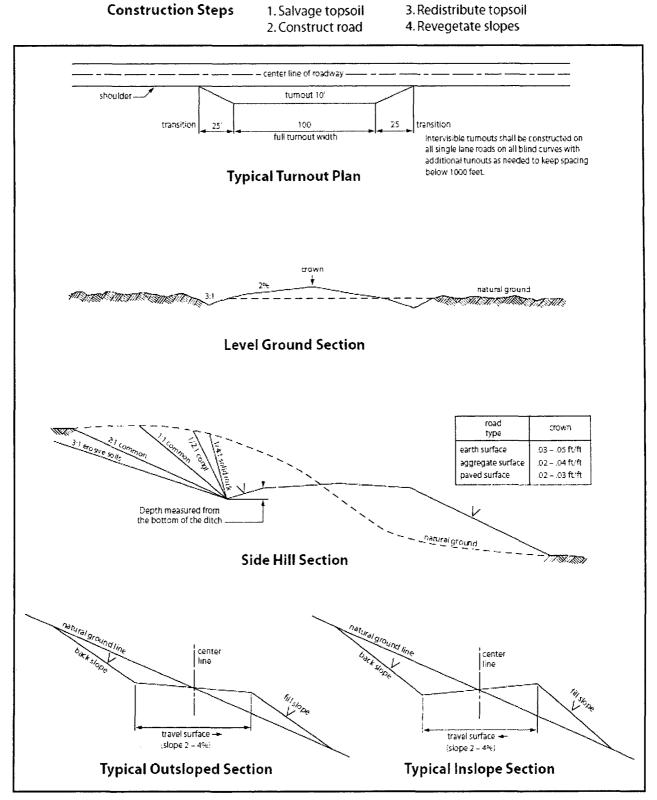


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. 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.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ¹/₂ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

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, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES A copy of the grant 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 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. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States. Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. 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 the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. 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 actions to prevent the loss of significant 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.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

VIII. 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).

IX. 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 2, for Sandy 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 no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

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

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

Species	lb/acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
LEASE NO.:	NMLC061497
WELL NAME & NO.:	2H- Fuller 13/12 W2JB Fed Com
SURFACE HOLE FOOTAGE:	760'/S & 2030'/E
BOTTOM HOLE FOOTAGE	330'/N & 2100'/E, 12
LOCATION:	Section 13 T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

I. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

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

1. A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

1. 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.

2. 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.

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) shall 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 program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. 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. Have well specific cement details onsite prior to pumping the cement for each casing string.

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

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A CIT is to be performed on this casing per Onshore Oil and Gas Order 2.III.B.1.h prior to drilling the shoe plug.

Possibility for water flows in the Castile and Salado Possibility of lost circulation in the Rustler, Red Beds, and Delaware Medium Cave/Karst Abnormal pressures may exist within the 3rd Bone Spring Sand and Wolfcamp formation.

1. The **13 3/8** inch surface casing shall be set at approximately **725** in a **competent bed** (a minimum of 25 feet into the Rustler Anhydrite and above the salt) 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 9 5/8" inch intermediate casing is:

 \Box Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9 5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

- 3. The minimum required fill of cement behind the 7 inch production casing is: Operator has proposed DV tool at depth of 4225'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.
 - a. First stage to DV tool:____
 - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
 - a. Second stage above DV tool:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 7" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

4. The minimum required fill of cement behind the $4 \frac{1}{2}$ " liner is:

Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

5. 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 53.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13 3/8**" **surface** casing shoe shall be psi.

3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9 5/8" Intermediate casing shoe shall be psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **7**" **Intermediate** casing shoe shall be psi. **10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**

5. The appropriate BLM office shall be notified a minimum of 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, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- 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. This test shall be performed prior to the test at full stack pressure.

f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. DRILLING MUD

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

E. **DRILL STEM TEST**

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

F. 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.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

TMAK110816

NMOCD CONDITION OF APPROVAL

The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.

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