Form 3160-3 (March 2012)		OCD HOBS	SOCD	FORN OMB Expires	4 APPROVED No. 1004-0137 October 31. 2014		
UNITED STATE	S	AUG O	5 2014	5. Lease Serial No.			
DEPARTMENT OF THE BUREAU OF LAND MAT	NAGEMENT			NMNM-036852			
APPLICATION FOR PERMIT TO	DRILL OR	REENTEREC	EIVED	6. If Indian, Allotee o	r Tribe Name		
Ia. Type of work: DRILL REEN	TER		· · ·	7. If Unit or CA Agr	eement, Narne	and No.	
Ib. Type of Well: Oil Well Gas Well Other	Sin	gle Zone 📃 Mult	iple Zone	8. Lease Name and Wolf Federal #1	Vell No.	13571	
2. Name of Operator				9. API Well No.	25-4	2026	
la Address	3b. Phone No.	(include area code)		10. Field and Pool, or	Exploratory	7.	
PO Box 960 Artesia, NM 88211-0960	(575)748-1	288		Young:Bone Spr	ing.North	< 6533	
4 Location of Well (Report location clearly and in accordance with any	State requiremen	ts. *)		I 1. See., T. R. M. or I	Blk, and Survey	or Area	
At surface 2310 FNL & 1650 FWL		···· ,					
At proposed prod. zone 2310 FNL & 1650 FWI				Sec. 2 TIPE DO	F		
14 Distance in miles and direction from respect town or next effort				12. County or Parish	.13	State	
4 miles south of Maliamar. NM				Lea	N	M	
15 Distance from proposed*	16. No. of act	es in lease	17. Spacin	g Unit dedicated to this	well		
location to nearest							
(Also to nearest drlg. unit line, if any) 330'	280		40				
18. Distance from proposed location*	19. Proposed	Depth	20. BLM/B	IA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft. N/A	9300'	9300' NMB0		00286			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxim	ate date work will star	t [‡]	23. Estimated duration			
· 3875' GR	5/15/2014		15 days				
	24. Attach	ments					
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Or	der No. 1, must be att	ached to this	form:			
		A Dond to source th	• • • • • • • • • • • • • • • • • • •	inland accord by an avi	ating hand on fi	10 (100	
 Well plat certified by a registered surveyor. A Drilling Plan 		Itern 20 above)	e operations t	timess covered by an exi	sting bond on h	10 (300	
3. A Surface Use Plan (if the location is on National Forest System Lands, the		5. Operator certifica	ation				
SUPO must be filed with the appropriate Forest Service Office)		6. Such other site s	pecific inform	ation and/or plans as ma	iy be required b	y the	
SOLO musi de mou wan are appropriate i drest service Orace).		I KIM					
25 Signature	Name (BLM. Printed/Typedi			Date		
25. Signature Change (L). Shereol	Name (Jerry	BLM. Printed/Typed) W. Sherrell			Date 4-14-	2014	
25. Signature Title Title	Name (Jerry	BLM. Printed/Typed) W. Sherrell		· · · · · · · · · · · · · · · · · · ·	Date 4-14-	2014	
25. Signature Perry W. Shevell Title Production Clerk	Name (Jerry	BLM. Printed/Typed) W. Sherrell			Date 4-14-	2014	
25. Signature 25. Signature Title Production Clerk Approved by (Signate of the second sec	Name (Jerry Name (BLM. Printed/Typed) W. Sherrell 'Printed/Typed)		· · · · · · · · · · · · · · · · · · ·	Date 4-14-	<u>2014</u> 3 1 2014	
25. Signature 25. Signature Title Production Clerk Approved by (Signat Steve Caffey Title FIELD MANAGER	Name (Jerry Name (Office	Printed/Typed) W. Sherrell 'Printed/Typed)			Date 4-14-	2014 3 1 2014	
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11. Other Information:

- Α. The area around the well site is grassland and the topsoil is sandy. The vegetation is native scrub grass with sagebrush.
- There is no permanent or live water in the immediate area. B.
- C. Well is within the Permian MOA area. Form and fee will be forwarded to your office in the near future.

12. Lessee's and Operator's Representative:

The Mack Energy Corporation representative responsible for assuring compliance with the surface use plan is as follows: HARRA AAR

Jerry W. Sherrell	HORRS OCD
Mack Energy Corporation	
P.O. Box 960	AUG 0 5 2014
Artesia, NM 88211-0960	
Phone (575) 748-1288 (office)	
jerrys@mec.com	MEOLINE 2

APD CERTIFICATION

I hereby certify that I, or person under my direct supervision, have inspected the proposed 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 the work associated with the operations proposed herein will be performed in conformity with this APD package and 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.

Date: <u>4-14-2014</u> Signed: <u>Jerry W. Shenell</u> Jerry W. Sherrell

HOBBS OCD

Attached to Form 3160-3 Mack Energy Corporation Wolf Federal #1 2310 FNL & 1650 FWL, SE/NW, Sec. 3 T18S R32E Lea County, NM

AUG 0 5 2014

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DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Rustler	1200'	Grayburg	4325'
TOS	1315'	San Andres	4800'
BOS	2475'	Delaware Sand	4890'
Yates	2630'	Bone Spring	6280'
Seven Rivers	3090'	Wolfcamp	9100 [;]
Queen	3810'	·	•

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand 150' Fresh Water			•				
Yates	2630'	Oil/Gas	Bone Spring	6280'	Oil/Gas		
San Andres	3810'	Oil/Gas	Wolfcamp	9100'	Oil/Gas		

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 1225' and circulating cement back to surface will protect the surface fresh water sand. Salt section and zones will be protected by the 8 5/8" casing at 2700'and circulating cement back to surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5 ½" production casing, sufficient cement will be pumped to circulate back to surface.

4. Casing Program:

Hole Size	Interval	OD Casing	Wt, Grade, Jt, cond, collapse/burst/tension
17 1/02	1240	10 9 (02)	ARH LES STEP New 121012 20212 A
17 172	0-1225	13 3/8 8 5/8"	48#,J-55, ST&C, New, 1.210/3.292/3.40 32#, J-55, ST&C, New, 1.766/8.327/7.86
7 7/8"	0-9300'	5 1/2"	17#,L-80,LT&C, New, 1.340/2.460/2.58
	Hole Size 17 1/2" 12 ¼" 7 7/8"	Hole Size Interval 17 1/2" 0-1 225 ' 12 ¼" 0-2700' 7 7/8" 0-9300'	Hole Size Interval OD Casing 17 1/2" 0-1225' 13 3/8" 12 1/4" 0-2700' 8 5/8" 7 7/8" 0-9300' 5 1/2"

5. Cement Program:

13 3/8" Surface Casing: Lead 725sx, Class C + 4% PF20 + 2% PF1 + .125#/sx PF29 + .2% PF46, yield 1.98, water 9.138g/s, Tail 200sx Class C + 1% PF1, yield 1.33, water 6.323g/s, excess 100%.

8 5/8" Intermediate Casing: Lead 850sx, Class C + 4% PF20 + 2% PF1+ .125#/sk PF29 + 2% PF46, yield 1.98, water 9.138g/s, excess 100%, Tail 200sx Class C 1% PF13, yield 1.34, water 6.3g/s.

 $5 \frac{1}{2}$ Production Casing: Lead 525sx 35/65POZ/H + 5% PF44 + 6% PF20 + $.25\frac{1}{5}$ x PF46 + $3\frac{1}{5}$ x PF42 + .6% PF13 + $.125\frac{1}{5}$ x PF29, yield 2.05, water 10.991g/s, excess 35%, Tail 775sx PVL + 1.3% PF44 + 5% PF174 + .5% PF606 + .1% PF153 + .6% PF13, yield 1.47, water 7.57g/s.

Attached to Form 3160-3 Mack Energy Corporation Wolf Federal #1 2310 FNL & 1650 FWL, SE/NW, Sec. 3 T18S R32E Lea County, NM

The blowout preventer equipment (BOP Exhibit #10) will consist of a double ram-type (5000 psi WP) minimum preventer, with annular. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The 13 5/8" BOP will be nippled up on the 13 3/8" surface casing and tested by a 3rd party to 5000 psi. The 13 5/8" BOP will then be nippled up on the 8 5/8" casing using a double stud adapter and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 5000 psi before drilling out of intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #11) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #12) with a minimum 5000 psi WP rating.

7. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of brine and cut brine mud system. The applicable depths and properties of this system are as follows:

DEPTH	ТҮРЕ	WEIGHT	VISCOSITY	WATERLOSS
0-450 1280	Fresh Water	8.5	28	N.C.
450-2700	Brine	10	30	N.C.
2700'-TD'	Brine	9.1	29	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times. Pason Equipment: Flow system and pit leveler.

8. Auxiliary Well Control and Monitoring Equipment:

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.
- C. If gas is encountered. Well will be shut-in and a Mud Gas Seperator will be installed.

9. Logging, Testing and Coring Program:

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log from T.D. to 8 5/8 casing shoe.
- B. Drill Stem test is not anticipated.
- C. W No conventional coring is anticipated.
- D. Further testing procedures will be determined at TD.

10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 4,092 psig, Based on offset well data. Low levels of Hydrogen sulfide have been monitore in producing wells in the area,

Attached to Form 3160-3 Mack Energy Corporation Wolf Federal #1 2310 FNL & 1650 FWL, SE/NW, Scc. 3 T18S R32E Lea County, NM

so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is May 15 2014. Once commenced, the drilling operation should be finished in approximately 15 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

Attachment to Exhibit #10 NOTES REGARDING THE BLOWOUT PREVENTERS Wolf Federal #1 Lea County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 5000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 5000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Mack Energy Corporation Minimum Blowout Preventer Requirements 5000 psi Working Pressure 13 5/8 inch- 5 MWP 11 Inch - 5 MWP EXHIBIT #10

Stack Requirements

NO.	Items	Min.	Min.
	· · · ·	I.D.	Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15 ·	Kill line to rig mud pump manifold		2"

OPTIONAL Flanged Valve

10.

ME

1 13/16

CONTRACTOR'S OPTION TO CONTRACTOR'S OPTION TO FURNISH:

16

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3. BOP controls, to be located near drillers' position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6. Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- 8. Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing, If required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so as not to hamper or delay changing of choke beans.



Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

- 5. All valves to be equipped with hand-wheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.
- Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11. Does not use kill line for routine fill up operations.



Mack Energy Corporation

MIMIMUM CHOKE MANIFOLD 3,000, 5,000, and 10,000 PSI Working Pressure 5M will be used 3 MWP - 5 MWP - 10 MWP



Mud Pit

Reserve Pir Not applied for

* Location of separator optional

Below Substructure

Mimimum requirements

	3,000 MWP				5	5,000 MWP			10,000 MWP	
No.		I.D.			I.D.			1.D.		
			Nominal	Rating		Nominal	Rating		Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1.000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2' x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

(1) Only one required in Class 3M

Gate valves only shall be used for Class 10 M (2)

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.

All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP. 2.

3. All lines shall be securely anchored.

Ι.

Chokes shall be equipped with tungsten carbide scats and needles, and replacements shall be available. 4.

alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the 5. standpipe pressure gauge.

Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns 6. by large bends or 90 degree bends using bull plugged tees

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