HOBBS OC	20	OCD Hobbs				
SEP 06 2016				Revised 8/2/1	16	
Form 3160-3 (March 2012)	D			FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014		
UNORTHODOX LOCATION LOCATION UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN		•		5. Lease Serial No. NMLC057210		
APPLICATION FOR PERMIT TO				6. If Indian, Allotee N/A	or Tribe Name	
la. Type of work: 🖌 DRILL 🗌 REENTI	ER			7 If Unit or CA Agre	ement, Name and No.	
Ib. Type of Well: 🔽 Oil Well 🗌 Gas Well 🔤 Other	8. Lease Name and V MCA Unit 534	Well No. 31422				
2. Name of Operator ConocoPhillips Company (2178)	9			9. API Well No. 30-025- 434	07	
3a. Address 600 N. Dairy Ashford Rd.; EC3-10-W385 Houston, TX 77079-1175	10. Field and Pool, or E Maljamar; Grayburg					
 Location of Well (Report location clearly and in accordance with an At surface 1057' FNL and 527' FEL; UL A, Sec.27, T17S At proposed prod. zone 670' 650' FNL and 25' FEL; UL A, Sec. 2 	, R32E			11. Sec., T. R. M. or Bl Sec.27, T17S, R32B		
 Distance in miles and direction from nearest town or post office* Approximately 3.5 miles south east of Maljamar; New Mexico 				12. County or Parish Lea County	13. State NM	
 Distance from proposed* 25' to UL line property or lease line, ft. (Also to nearest drig. unit line, if any) 				acing Unit dedicated to this well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed 4737' MD/		20. BLM/ ES0085	M/BIA Bond No. on file 85		
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3972' 	22. Approxit 06/01/201	. Approximate date work will start* 23. Estimated durat 6/01/2017 7 days				
	24. Attac					
 The following, completed in accordance with the requirements of Onshore Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office). 		 Bond to cover the Item 20 above). Operator certific 	ne operation ation	is form: ns unless covered by an e prmation and/or plans as n		
25. Signature Sugar B. Maunder		(<i>Printed/Typed</i>) B. Maunder			Date 08/02/2016	
Senior Regulatory Coordinator	Name	(Printed/Typed)		I		
itte FIELD MANAGER	Office				AUG 2 9 20	
pplication approval does not warrant or certify that the applicant holds onduct operations thereon. conditions of approval, if any, are attached.	legal or equita		s in the subj	AD FIELD OFFICE ject lease which would ent ROVAL FOR T	title the applicant to	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crin tates any false, fictitious or fraudulent statements or representations as to	me for any pe any matter wi	rson knowingly and w thin its jurisdiction.	illfully to m	ake to any department or	agency of the United	
(Continued on page 2)	Ka	9/06/16		*(Instru	actions on page 2)	

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached SEE ATTACHED FOR CONDITIONS OF APPROVAL

Kar

1. Geologic Formations

TVD of target	4621'	Pilot hole depth	NA	
MD at TD:	4689'	Deepest expected fresh water:	896'	

Basin

Rustler	896
Salado	1081
Tansill	2101
Yates	2236
Seven Rivers	2581
Queen	3226
Grayburg	3576
San Andres	3974
TD	4621

2. Casing Program

Hole	Casing Interval		Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)	S. Salar		Collapse	Burst	Tension
12.25"	0	931 980'	8.625"	24	J55	STC	3.33	7.17	10.9
7.875"	0	46794236	5.5"	17	J55	LTC	2.02	2.19	3.11
				BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 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.

ConocoPhillips, MCA UNIT 534

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	YES
Does casing meet API specifications? If no, attach casing specification sheet.	YES
Is premium or uncommon casing planned? If yes attach casing specification sheet.	NO
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	YES
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	N/A
Is well located within Capitan Reef?	NO
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?	NO
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?	NO
If yes, are the first three strings cemented to surface?	-
Is 2 nd string set 100' to 600' below the base of salt?	ald an
Is well located in high Cave/Karst?	NO
If yes, are there two strings cemented to surface?	- 11 L
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	NO
If yes, are there three strings cemented to surface?	1

-

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	350	13.5	1.75	9.17	15.75	Lead: Class C + 4% Bentonite + 2% CACl2 + 0.25% Cello Flake (LCM)
	250	14.8	1.34	6.36	8	Tail: Class C + 2% CaCl2
DV Tool- Contin gency	450	11.5	3.22	19.06	29	Lead:Class C+3%MPA-5 (strength enhancement)+10% extender+.005lbs/sx Static Free+.005gps defoamer+.125lb/sx Cello Flake+3lbs/sx LCM+2%extender+1% bonding improver+6% Bentonite
	320	14.0	1.37	6.17	5.5	Tail: (35:65) Poz:Class C+1% Extender+1.5% Fluid Loss Add.+ .125 lbs/sx Cello Flake + 3lbs/sx LCM
	250	14.8	1.34	6.36	8	Stage 2:Class C +2%CACl2
Prod.	450	11.5	3.21	19.34	29	Lead: Class C +10% Gas Migration Add.+2% Extender+3% MPA-5 (strength enhancement)

					+1% BA-10A (Bonding improver)+6% Bentonite
320	14.0	1.37	6.48	5.5	Tail: (35:65) Poz:Class C+1% Extender+1.5%
					Fluid Loss Add.

Lab reports with recipe and the 500 psi compressive strength time for the cement will be onsite for review.

DV tool and two-stage cement job to be performed as contingency, in the event of flows or severe losses while drilling and running casing. DV tool depth will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe.

Casing String	TOC	% Excess
Surface	0'	157% lead, 107% tail
Production	0'	262% lead, 81% tail

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	-	Tested to:																	
h. And			Anı	nular	x	70% of working pressure																	
			Blind Ram Pipe Ram																				
		3M																					
			3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	3M	Doub	le Ram	X	
7-7/8"	11"																			3M	3M	3M	3M
			Pipe Ram			3M																	
					Doub	le Ram																	
		1.4	Other *																				

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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 will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Ν	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Y /N Are anchors required by manufacturer?
Ν	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.
	See attached schematic.

5. Mud Program

Depth		Depth Type Weight (pp		Viscosity	Water	PH
From	То				Loss	
0	Surf. shoe	FW Gel	8.5-9.0	28-40	N/C	N.C.
Surf. Shoe	TD	Saturated Brine	10.0	29	N/C	10-11

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logging, Coring and Testing.				
NO	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated			
	logs run will be in the Completion Report and submitted to the BLM.			
	No Logs are planned based on well control or offset log information.			
NO	Drill stem test? If yes, explain			
NO	Coring? If yes, explain			

Additional logs planned	Interval	
Resistivity		
Density, GR, BHC		
CBL		
Mud log	and the second second	
PEX	Contraction of the second	

7. Drilling Conditions

Condition	Specify what type and where?	
BH Pressure at deepest TVD	1870 psi	
Abnormal Temperature	No	

• Mitigation measure for abnormal conditions - Loss of circulation is a possibility in the horizons below the Top of Grayburg. We expect that normal Loss of Circulation Material will be successful in healing any such loss of circulation events.

Gas detection equipment and pit level flow monitoring equipment will be on location. A flow paddle will be installed in the flow line to monitor relative amount of mud flowing in the non-pressurized return line. Mud probes will be installed in the individual tanks to monitor pit volumes of the drilling fluid with a pit volume totalizer. Gas detecting equipment and H2S monitor alarm will be installed in the mud return system and will be monitored. A mud gas separator will be installed and operable before drilling out from the Surface Casing. The gases shall be piped into the flare system. Drilling mud containing H2S shall be degassed in accordance with API RP-49, item 5.14. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

X H2S is present

X H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. No Will be pre-setting casing? If yes, describe. No A 10' rathole is planned between TD and production casing setting depth.

Attachments

_X_Directional Plan

X___Other, describe: Two Stage contingency cementing diagram; attached

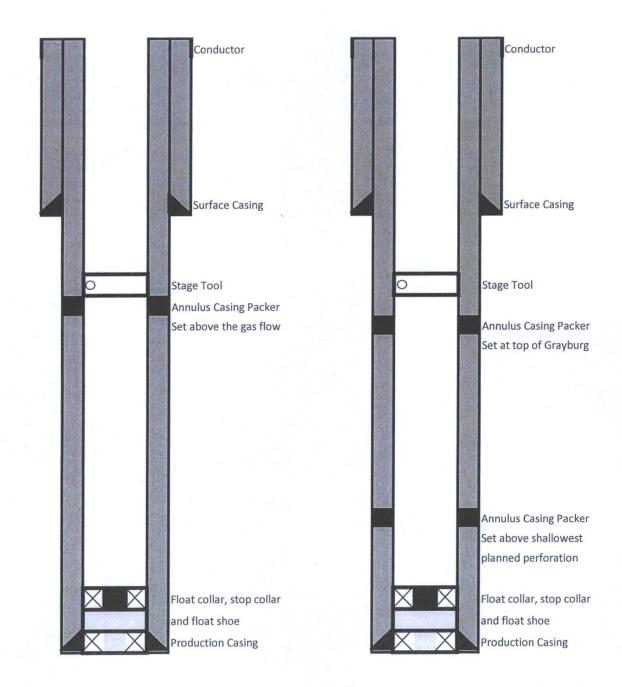
Drill Plan Attachment

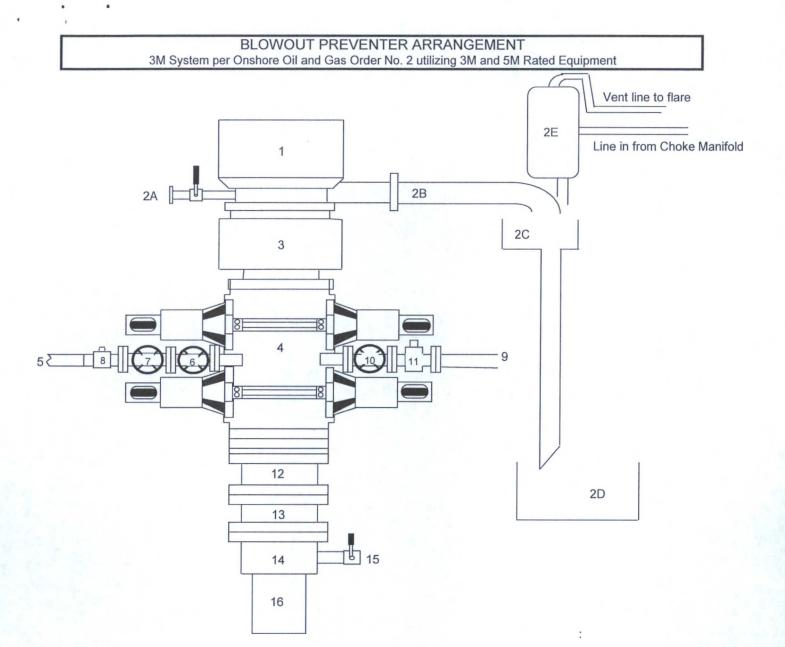
Two-Stage Cementing (Alternative for Shallow Gas)

Provide contingency plan for using two-stage cementing for the production casing cement job if gas flow occurs during the drilling operations. See APD Drill Plan Section 3.

Two-Stage Cementing (Alternative for Oil/Water/Gas & Water Flow)

Provide contingency plan for using two-stage cementing for the production casing cement job if oil or water flow occurs during drilling operations. See APD Drill Plan Section 3.

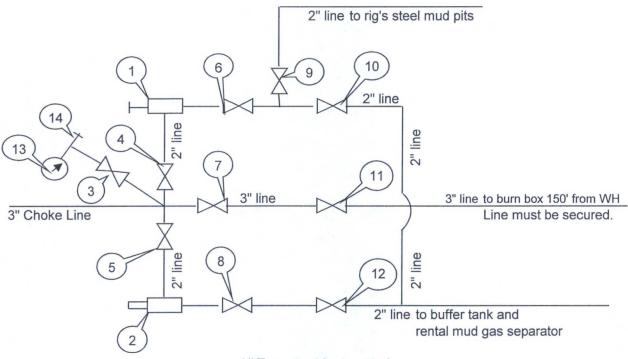




Item

- n Description 1 Rotating Head (11")
- 2A Fill up Line and Valve
- 2B Flow Line (8")
- 2C Shale Shakers and Solids Settling Tank
- 2D Cuttings Bins for Zero Discharge
- 2E Rental Mud Gas Separator with vent line to flare and return line to mud system
- 3 Annular BOP (11", 3M)
- 4 Double Ram (11", 3M, equipped with Blind Rams and Pipe Rams)
- 5 Kill Line (2" flexible hose, 3000 psi WP)
- 6 Kill Line Valve, Inner (2-1/16", 3000 psi WP)
- 7 Kill Line Valve, Outer (2-1/16", 3000 psi WP)
- 8 Kill Line Check Valve (2-1/16", 3000 psi WP)
- 9 Straight Choke Line (3" 3000 psi WP)
- 10 Choke Line Valve, Inner (3-1/8", 3000 psi WP)
- 11 Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 3000 psi WP)
- 12 Spacer Spool (11" 3M x 3M)
- 13 Adapter Flange (11" 3M x 5M)
- 14 Casing Head (11" 5M)15 Ball Valve and Threaded Nipple on Casing Head Outlet, (2", 5M)
- 16 Surface Casing

CHOKE MANIFOLD ARRANGEMENT 3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Equipment



All Tees must be targeted

- Item Description
 - 1 Manual Adjustable Choke, 2-1/16", 5M
 - 2 Remote-Controlled Hydraulically-Operated Adjustable Choke, 2-1/16", 10M
 - 3 Gate Valve, 2-1/16" 5M
 - 4 Gate Valve, 2-1/16" 5M
 - 5 Gate Valve, 2-1/16" 5M
 - 6 Gate Valve, 2-1/16" 5M
 - 7 Gate Valve, 3-1/8" 3M
 - 8 Gate Valve, 2-1/16" 5M
 - 9 Gate Valve, 2-1/16" 5M
 - 10 Gate Valve, 2-1/16" 5M
 - 11 Gate Valve, 3-1/8" 3M
 - 12 Gate Valve, 2-1/16" 5M
 - 13 Pressure Gauge
 - 14 2" hammer union tie-in point for BOP Tester

We will test each valve to 3000 psi from the upstream side.

Submitted by: Cord Denton Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company Date: 27-April-2015

Closed Loop System Design, Operating and Maintenance, and Closure Plan

ConocoPhillips Company Well: MCA 534 Location: Section 27, T17S, R32E Date: 5/18/2015

ConocoPhillips proposes the following plan for design, operating and maintenance, and closure of our proposed closed loop system for the above named well:

 We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, use a drying pad, build an earthen pit above ground level, nor dispose of or bury any waste on location.

All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in hauloff bins or frac tanks as needed. The intent is as follows:

- We propose to use the rig's steel pits for containing and maintaining the drilling fluids.
- We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
- We propose that any excess water that may need to be stored on location will be stored in tanks.

The closed loop system components will be inspected daily during each tour and any necessary repairs will be made immediately. Any leak in the system will be repaired immediately, any spilled liquids and/or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.

2. Cuttings and solids will be removed from the location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

R-360 Inc. 4507 West Carlsbad Hwy, Hobbs, NM 88240, P.O. Box 388; Hobbs, New Mexico 88241 Phone Number: 575.393.1079

The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

The Permit Number for R-360 is NM1-006. A photograph showing the type of haul-off bins that will be used is attached.

- 3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
- 4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - Nabors Well Services Company, 3221 NW County Rd, Hobbs, NM 88240; P.O. Box 5208 Hobbs, NM, 88241, Phone Number: 575.392.2577; Permit SWD 092.
 - Basic Energy Services, 2404 W Texas Ave, Eunice, NM 88231; P.O. Box 1869, Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.
 - C & C Transport, LLC, P.O. Box 1352, Hobbs, NM 88241 Phone Number: 575.393.0422
 - Sundance Services, Inc., P.O. Box 1737 Eunice, NM 88231 Phone Number: 575.394.2511

SPECIFICATIONS

FLOOR: 3/16" PL one piece CROSS MEMBER: 3 x 4.1 channel 16" on center

WALLS: 3/16" PL solid welded with tubing top, insi de liner hooks

DOOR: 3/16" PL with tubing frame FRONT: 3/16" PL slant formed PICK U P: Standard cable with 2" x 6" x 1/4" rails, gu sset at each crossmember WHEELS: 10 DIA x 9 long with rease fittings DOOR LATCH: 3 Independent ratchet binders with chains, vertical second latch GASKE TS: Extruded rubber seal with metal retainers

WELDS: All welds continuous except substructur e crossmembers

FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22°-11° long (21°-8° inside), 99° wide (88° inside), see drawing for height OPTIONS: Steel grit blast and special paint, AmpliroII, Heil and Dino pickup

ROOF: 3/16" PL roof panels with tubing and channel support frame LIDS: (2) 68" x 90" metal rolling lids spring

loaded, self raising

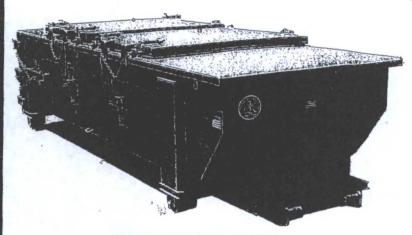
ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings

OPENING: (2) 60" x 82" openings with 8" divider centered on contain er

LATCH:(2) independent ratchet binders with chains per lid

GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



CONT.	A	В
20 YD	41	53
25 YD	53	65
30 YD	65	77

