Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

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SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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5. Lease Serial No.
NMNM27508

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
WILDER FEDERAL AC 29 2H

2. Name of Operator
CONOCOPHILLIPS

Contact: KRISTINA MICKENS
E-Mail: kristina.mickens@conocophillips.com

9. API Well No.
30-025-41511

3a. Address
600 N DAIRY ASHFORD P-10-4056
HOUSTON, TX 77079

3b. Phone No. (include area code)
Ph: 281-206-5282

10. Field and Pool, or Exploratory
JENNINGS;BS UPPER SHALE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 29 T26S R32E NWNE 330FNL 2116FEL

11. County or Parish, and State
LEA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

ConocoPhillips respectfully submits the attached revised drill plan procedure. Significant changes are:

7" Intermediate 2 string has been removed.
4-1/2" liner with ?sleeves & packers? has been removed.
5-1/2" long string has been added from surface to TD.
Cement has been added from the set depth of the long string to 500ft. inside the 9-5/8" shoe with an optional DV tool & packer at 5500ft.

Proposed bottom hole from 330' FSL & 2116' FEL of 29-26S-32E to 330' FSL to 1726' FEL of 29-26S-32E

We are also requesting to amend the well name from Wilder Federal 29 2H to Wilder Federal AC 29 2H

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #228084 verified by the BLM Well Information System
For CONOCOPHILLIPS, sent to the Hobbs
Committed to AFMSS for processing by JOHNNY DICKERSON on 12/05/2013 ()

Name *(Printed/Typed)* KRISTINA MICKENS — Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission) — Date 11/26/2013

APPROVED
JAN 3 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., 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 and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-025-41511	97838	JENNINGS; BS UPPER SHALE

Property Code	Property Name	Well Number
39470	WILDER FEDERAL AC 29	2H

OGRID No.	Operator Name	Elevation
217817	CONOCO PHILLIPS	3143'

Surface Location

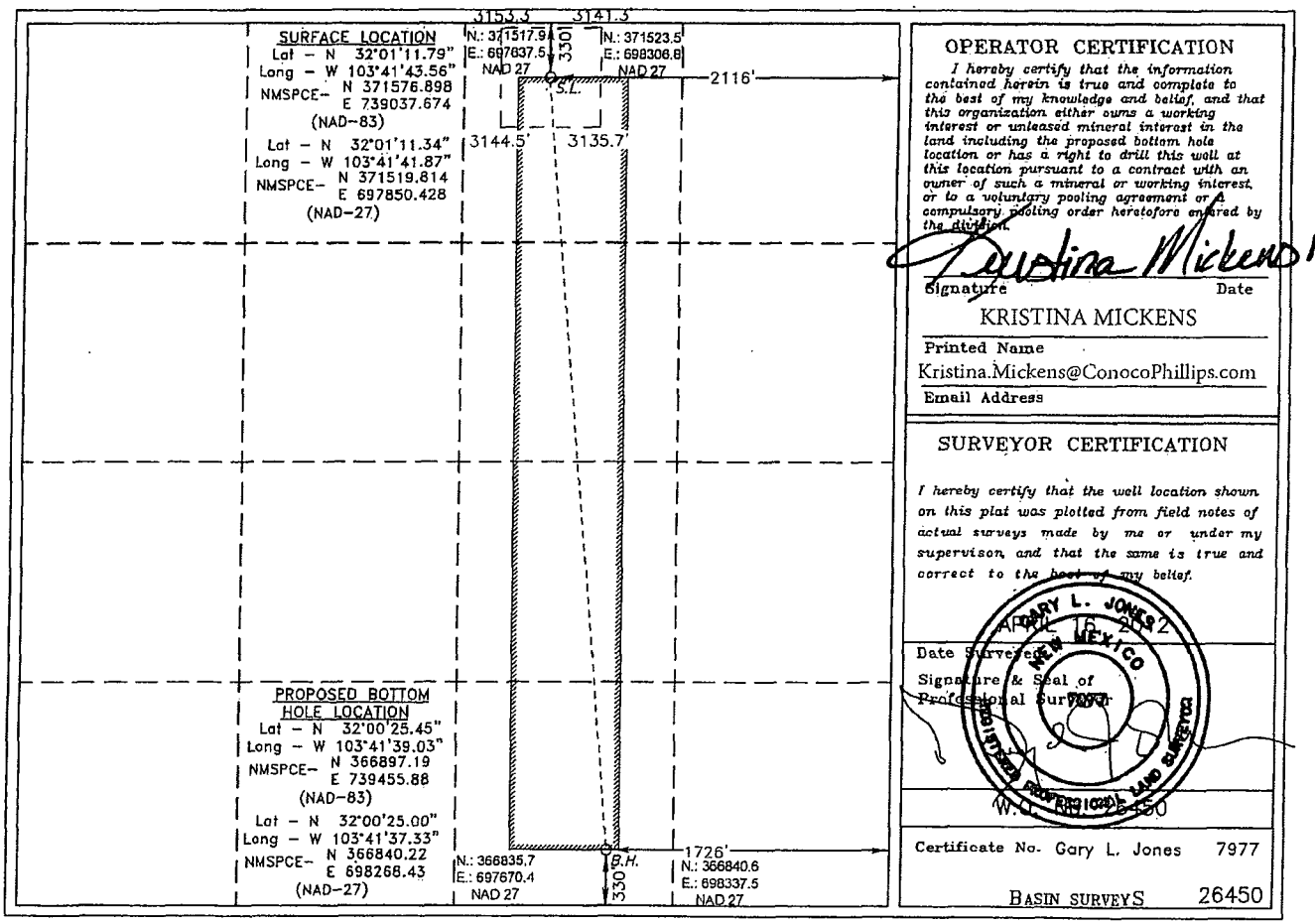
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	29	26 S	32 E		330	NORTH	2116	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	29	26 S	32 E		330	SOUTH	1726	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kristina Mickens 11-21-13

Signature Date

KRISTINA MICKENS

Printed Name

Kristina.Mickens@ConocoPhillips.com

Email Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

APRIL 16, 2012

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES NEW MEXICO 7977 REGISTERED PROFESSIONAL LAND SURVEYOR

W.O. Num. 26450

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 26450

Bonespring/Red Hills
ConocoPhillips
Wilder Federal 29 #2H

Surface Casing:	
Surface Casing Depth (Ft)	1,010
Surface Casing O.D. (In.)	13.375
Surface Casing ID (In)	12.715
Hole O.D. (In)	17.5
Excess (%)	100%
Volume Tail (Sx)	230
Yield Tail (Cu. Ft./Sx)	1.85
Yield Lead (Cu. Ft./Sx)	1.33
Shoe Joint (Ft)	40
Shoe Volume (Cu. Ft)	35.3
Tail feet of cement	300
Calculated Total Volume (Cu. Ft.)	1,438
Calc. Tail Volume (Cu. Ft.)	417
Calc. Lead Volume (Cu. Ft.)	986
Calc. Lead Volume (Sx)	750

Intermediate1 Casing (Lead):	
Intermediate Casing O.D. (In.)	9.625
Intermediate Casing ID (In)	8.921
Hole O.D. (In)	
Excess (%)	100%
cap 12-1/4 - 9-5/8"	0.0558
Calculated fill:	3,800'
Yield Lead (Cu. Ft./Sx)	2.48
Calculated Total Lead (Cu. Ft.)	2,380
Calc. Lead Volume (Sx)	960

Intermediate1 Casing (Tail):	
Intermediate Casing O.D. (In.)	9.625
Production Casing ID (In)	8.835
Hole O.D. (In)	12.25
Excess (%)	100%
cap 12-1/4 - 9-5/8"	0.0558
Calculated fill:	500'
Yield Tail (Cu. Ft./Sx)	1.33
Shoe Joint (Ft)	40
Shoe Volume (Cu. Ft)	17.0
Calc. Tail Volume (Cu. Ft.)	174
Required Tail Volume (Sx)	140

Production Casing Stage 1(Lead):	
Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	4.892
Hole O.D. (In)	8.75
Excess (%)	135%
cap 5-1/2" - 8-3/4" bls/ft	0.0450
cap 5-1/2" - 9-5/8" bls/ft	0.047925
Calculated fill: (500' into 9-5/8")	4,704'
Yield Lead (Cu. Ft./Sx)	3.22
Calculated Total Lead (Cu. Ft.)	1,615
Calc. Lead Volume (Sx)	510

Production Casing Stage 1 (Tail):	
Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	16.184
Hole O.D. (In)	8.75
Excess (%)	135%
cap 5-1/2" - 8-3/4" bls/ft	0.0450
cap 5-1/2" - 9-5/8" bls/ft	0.0464418
Calculated fill:	5,093'
Yield Lead (Cu. Ft./Sx)	1.27
Calculated Total Tail (Cu. Ft.)	1,793
Required Tail Volume (Sx)	1412

8,504'

Production Casing Stage 2 (Lead):	
Intermediate Casing O.D. (In.)	5.500
Intermediate Casing ID (In)	4.892
Hole O.D. (In)	8.75
Excess (%)	135%
cap 5-1/2" - 8-3/4" bls/ft	0.0450
cap 5-1/2" - 9-5/8" bls/ft	0.047925
Calculated fill: (500' into 9-5/8")	4,700'
Yield Lead (Cu. Ft./Sx)	3.22
Calculated Total Lead (Cu. Ft.)	591
Calc. Lead Volume (Sx)	190

5,500'

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Wilder Federal 29 #2H			
Surface Location:		Bottom Hole Location	
330FNL	2116FEL	330FSL	1726FEL

Directional:

	MD	TVD	FNL/FSL	FEL/FWL	S-T-R	AZI
Vertical KOP:	8504	8504	0	0	0	179.65
End Build/ 7"Casing (90° curve):	9,624'	9,220'	0	0	0	179.7
Tangent:	N/A	N/A	0	0	0	179.7
Turn:	N/A	N/A	0	0	0	179.7
TD:	13,597'	9,249'	0	0	0	179.7

Formation	TVD
	Surface
Quaternary	
Rustler	981
Delaware Top	4,320
KOP	8,156
Bone Spring	8,375
Bone Spring 1st Carbonate Top	8,473
Bone Spring 1st Carbonate Base	8,503
KOP	8,503
Avalon A Shale Top	8,677
Avalon A Shale Base	8,921
Avalon B Zone Top	8,921
Avalon B Zone Base	9,076
Avalon C Shale Top	9,076
Avalon C Shale Horizontal Target	**9,220**
Avalon C Shale Base	9,314
KOP (8°/100')	8,504

CASING

Surface
1,070' 13-3/8" 54.5# J-55 BTC

Intermediate
4,300' 9-5/8" 36# J55 BTC

Optional DV+ACP
5,500'

Drill Fluids

Surf. Hole:
FW gel mud:
8.9#
w/ high vis sweeps

Intermediate
Brine
10#
40-50 Vis
5-8 WL

high vis sweeps as required.

Prod Hole.
Cut Brine
9.3#
28-36 Vis
<=5 WL

Cement

Data. These numbers are only estimates.

Surface:
230 Sx Lead
750 Sx Tail

Based on 17-1/2" OH, with 100% excess

Intermediate
960 Sx Lead
140 Sx Tail

Based on 12.25 in. Hole with 100% excess

Production:
Stage 1
510 Sx Lead
1,412 Sx Tail
Stage 2
190 Sx Lead

Based on 8.75 in. Hole with 135% excess

Slurry Top
Surface

Slurry Top
Surface

Slurry Top
500' into 9-5/8".

Analysis

Mudlogging:
Two-Man:
1010'

TD

Open Hole:
None

GR-MWD
KOP-TD

Cased Hole Logs:
None

Notes for Well:

Drill 17 1/2" surface hole with conventional BHA and INC Survey Tool, RIH 13 3/8" CSG and cement it up to surface
Install well head and NU BOP. CSG Pressure Test and FIT.
Mud logger (two-man) to be on at surface casing depth of 1070'.
Drill 12 1/4" intermediate hole with Vertical Seeking Scout Tool+Motor and INC Survey Tool till 4300'.
RIH 9 5/8" CSG and cement it up to surface.
Drill 8 3/4" Intermediate #2 hole with Vertical Seeking Scout Tool+Motor and INC Survey Tool till 8504ft.
Run Gyro till 8504ft.
Begin GR-MWD service after KOP 8504'.
The 8 3/4" curve will be drilled with ~ 8°/100' build rate and 179.7° Azimuth with PDM+MWD till 9624' MD/ 9220' TVD.
The 8 3/4" Lateral will be drilled with PDM+MWD till TD 13597' MD/ 9249' TVD holding 89.58° INC & 179.7° Azi.
POOH Backreaming after circulating the hole until clean returns.
RIH 5 1/2" CSG and cement to 500 ft. inside of 9-5/8" shoe in two stages.
Displace cement with fresh water.
POOH laying down drill pipe.
ND BOPE. Install 10M tubing head . Test connection.
Release drilling rig.

Production:
5 1/2" 17# P110 BTC
13,597' MD

Max. Anticipated BHP: 0.65 psi/ft

TD @ 13,597' MD
TD @ 9,249' MD

Vick Harvey Geologist	Date 11/21/2013	
Jason Levinson Drilling Engineer	Date 11/21/2013	

Mason, Jennifer <jamason@blm.gov>

Wilder Federal Wells

1 message

Levinson, Jason A <Jason.A.Levinson@conocophillips.com> Mon, Dec 30, 2013 at 12:16 PM
To: "jamason@blm.gov" <jamason@blm.gov>
Cc: "Mickens, Kristina" <Kristina.Mickens@conocophillips.com>, "Ramos, Roger R" <Roger.R.Ramos@conocophillips.com>, "Garner, Justin B" <Justin.B.Garner@conocophillips.com>

Jennifer,

Please refer to the following for your questions regarding the DV tool placement and cement volumes for the following wells:

Wilder Federal 29-2H

-

Stage 1

510sx lead @ 3.19 ft^3/sx

1368sx tail @ 1.27 ft^3/sx

Both volumes are proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4300ft.

13597' - 3800'

Optional DV tool at 5500ft.

Stage 2

190sx lead @ 3.19 ft^3/sx

Volume is proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4300ft.

5500' - 3800'

Wilder Federal 29-5H

Stage 1

460sx lead @ 3.19 ft^3/sx

1415sx tail @ 1.27 ft^3/sx

Both volumes are proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4650ft.

13676' - 4150'

Optional DV tool at 5500ft.

Stage 2

150sx lead @ 3.19 ft^3/sx

Volume is proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4650ft.

5500' - 4150'

Wilder Federal 29-6H

Stage 1

450sx lead @ 3.19 ft^3/sx

1417sx tail @ 1.27 ft^3/sx

Both volumes are proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4420ft.

13638' - 3920'

Optional DV tool at 5500ft.

Stage 2

170sx lead @ 3.19 ft^3/sx

Volume is proposed with 35% excess

Top of cement to 500ft. inside the previous casing shoe at 4420ft.

5500' - 3920'

As with the Wilder Federal 28-3H, we will determine the need for the stage tool while drilling the 8-3/4" section if any losses are encountered. I will also be working the Wilder Federal 28-8H as soon as possible.

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**ConocoPhillips Company**
LEASE NO.:	**NMNM-27508**
WELL NAME & NO.:	**Wilder Federal AC 29 2H**
SURFACE HOLE FOOTAGE:	**0330' FNL & 2116' FEL**
BOTTOM HOLE FOOTAGE	**0330' FSL & 1726' FEL**
LOCATION:	**Section 29, T. 26 S., R 32 E., NMPM**
COUNTY:	**Lea County, New Mexico**
API:	**30-025-41511**

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)

☒ **Lea County**
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 393-3612

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.**

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.**

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

4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) 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. 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.).

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

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

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

Possible water flows in the Salado, Castile, Delaware, and Bone Spring.
Possible lost circulation in the Red Beds, Delaware, and Bone Spring.

1. The **13-3/8** inch surface casing shall be set at approximately **1070** feet (**in a competent bed <u>below the Magenta Dolomite</u>, which is a <u>Member of the Rustler</u>, and if salt is encountered, set casing at least 25 feet 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.

Formation below the 13-3/8" 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.

Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing, which shall be set at approximately **4300** feet, is:

☒ 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.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Cement Option #1:

☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

Cement Option #2:

Operator has proposed DV tool at depth of 5500'. 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 approved top of cement on the next stage.

b. Second stage above DV tool:

☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** 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.**

3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

    a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, 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).

    b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.

    c. 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.

    d. The results of the test shall be reported to the appropriate BLM office.

    e. 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.**

    f. 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.

D. DRILL STEM TEST

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

E. WASTE MATERIAL AND FLUIDS

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

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

JAM 010214