HOBBS OCD

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Form 3160-3
(March 2012)

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NM LC 029405B

6. If Indian, Allotee or Tribe Name
N/A

1a. Type of work: ☑ DRILL ☐ REENTER

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

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
Ruby Federal #15 <386537

2. Name of Operator ConocoPhillips Company <217817

9. API Well No.
30-025-41011

3a. Address P.O. Box 51810
Midland, Texas 79710-1810

3b. Phone No. *(include area code)*
432-688-6913

10. Field and Pool, or Exploratory
Maljamar; Yeso West

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface UL J, Sec. 17, T17S, R32E; 1770' FSL and 2235'FEL
At proposed prod. zone UL K, Sec. 17, T17S, R32E; 1644' FSL and 2427' FWL

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 17, T17S, R32E

14. Distance in miles and direction from nearest town or post office*
approximately 3 miles south of Maljamar, New Mexico

12. County or Parish
Lea County

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1644' FSL

16. No. of acres in lease
1601.96

17. Spacing Unit dedicated to this well
40 acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 120' from Ruby Federal #13 surface location

19. Proposed Depth
6957' TVD/7024' MD

20. BLM/BIA Bond No. on file
ES0085

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
4008' GL

22. Approximate date work will start*
12/15/2012

23. Estimated duration
20 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature Susan B. Maunder — Name *(Printed/Typed)* Susan B. Maunder — Date 9/27/12

Title Senior Regulatory Specialist

Approved by *(Signature)* James A. Amos — Name *(Printed/Typed)* — Date FEB 20 2013

Title FIELD MANAGER — Office CARLSBAD FIELD OFFICE

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

(Instructions on page 2)

Roswell Controlled Water Basin

Conditions of Approval for Non-Standard Location Intents ot drill ONLY- **CANNOT produce** until the Non Standard Location has been approved by OCD Santa Fe Office

KA 02/25/13

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

B 27 2013

Drilling Plan
ConocoPhillips Company
Maljamar; Yeso, west

Ruby Federal #15

Lea County, New Mexico

1. Estimated tops of geological markers and estimated depths to water, oil, or gas formations:

The ranges of depths for the formation tops, thicknesses, and planned Total Depths for all the wells to be drilled under this Master Drilling Plan are presented in the table below.

The datum for these depths is RKB (which is 13' above Ground Level).

Formations	Top Depth FT TVD	Top Depths FT MD	Contents
Quaternary	Surface	Surface	Fresh Water
Rustler	749	749	Anhydrite
Salado (top of salt)	927	927	Salt
Tansill (base of salt)	1934	1934	Gas, Oil and Water
Yates	2080	2080	Gas, Oil and Water
Seven Rivers	2391	2392	Gas, Oil and Water
Queen	3039	3054	Gas, Oil and Water
Grayburg	3461	3489	Gas, Oil and Water
San Andres	3843	3882	Gas, Oil and Water
Glorieta	5303	5370	Gas, Oil and Water
Paddock	5383	5450	Gas, Oil and Water
Blinebry	5772	5839	Gas, Oil and Water
Tubb	6757	6824	Gas, Oil and Water
Deepest estimated perforation	6757	6824	Deepest estimated perf. is ~ Top of Tubb
Total Depth (maximum)	6957	7024	200' below deepest estimated perforation

All of the water bearing formations identified above will be protected by setting of the 8-5/8" surface casing 25' – 70' into the Rustler formation and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

The targeted oil and gas bearing formations identified above will be protected by setting of the 5-1/2" production casing 10' off bottom of TD and circulating of cement from casing shoe to surface in accordance with the provisions of Onshore Oil and Gas Order No. 2 and New Mexico Oil Conservation Division Title 19.

2. Proposed casing program:

Type	Hole Size	Interval MD RKB (ft)		OD	Wt	Gr	Conn	MIY	Col	Jt Str	Safety Factors Calculated per ConocoPhillips Corporate Criteria		
	(in)	From	To	(inches)	(lb/ft)			(psi)	(psi)	(klbs)	Burst DF	Collapse DF	Jt Str DF (Tension) Dry/Buoyant
Cond	20	0	40' – 85' (30' – 75' BGL)	16	0.5" wall	B	Line Pipe	N/A	N/A	N/A	NA	NA	NA
Alt. Cond	20	0	40' – 85' (30' – 75' BGL)	13-3/8	48#	H-40	PE	1730	740	N/A	NA	NA	NA
Surf	12-1/4	0	774' – 819'	8-5/8	24#	J-55	STC	2950	1370	244	1.22	5.81	2.08
Prod	7-7/8	0	6969' – 7014'	5-1/2	17#	L-80	LTC	7740	6290	338	1.15	2.02	1.68

The casing will be suitable for H_2S Service.

The surface and production casing will be set approximately 10' off bottom and we will drill the hole with a 45' range uncertainty for casing set depth to fit the casing string so that the cementing head is positioned at the floor for the cement job.

The production casing will be set 155' to 200' below the deepest estimated perforation to provide rathole for the pumping completion and for the logs to get deep enough to log the interval of interest.

Casing Design (Safety) Factors - BLM Criteria:

Type	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	819	24	2950	1370	244000	8.5	8.15	3.78	12.41	14.26
Production Casing	7014	17	7740	6290	338000	10	2.12	1.72	2.83	3.35

Casing Design (Safety) Factors – Additional ConocoPhillips Criteria:

ConocoPhillips casing design policy establishes Corporate Minimum Design Factors (see table below) and requires that service life load cases be considered and provided for in the casing design.

ConocoPhillips Corporate Criteria for Minimum Design Factors

	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

Type	Depth	Wt	MIY	Col	Jt Str	Pipe Yiel	MW	Burst	Collapse	Tensile
Surface Casing (8-5/8" 24# J-55 STC)	819	24	2950	1370	244000	381000	8.5	1.22	5.81	2.08
Production Casing (5-1/2" 17# L-80 LTC)	7014	17	7740	6290	338000	397000	10	1.15	2.02	1.68

Burst Design (Safety) Factors – ConocoPhillips Criteria

The maximum internal (burst) load on the Surface Casing occurs when the surface casing is tested to 1000 psi (pressured up to 1100 psi). The maximum internal (burst) load on the Production Casing occurs during the fracture stimulation where the maximum allowable working pressure (MAWP) is the pressure that would fit ConocoPhillips Corporate Criteria for Minimum Design Factors.

Surface Casing Test Pressure = 1000 psi

Surface Rated Working Pressure = 3000 psi

Surface Casing Burst Design Factor = Burst Rating / Maximum Pressure during Casing Pressure Test

Production Casing MAWP for the Fracture Stimulation = Minimum Internal Yeild / Production Casing Burst Design Factor

Surface Casing Burst Design Factor:

Designed CSFG (Test Pressure + MWP) ≤	(	1000	+	426	.) / (	819	x	0.052	) -	0.5	≤	32.98	
MPSP (CSFG - GG) =	819	x	0.052	x	32.98	-	81.9	=	1323				
MPSP (PPTD - GG) =	7014	x	0.052	x	8.55	-	701.4	=	2417				
MPSP (0.375 x BHP) =	0.375	x	7014	x	0.052	x	8.55	=	1169				
MPCS (CSFG) =	819	x	0.052	x	32.98	=	1405						
Bust Design Factor =	2950	/	2417	=	1.22								

Production Casing Burst Design Factor:

MPSP (SRWP) =	3000								
MPSP (PPTD - GG) =	7014	x	0.052	x	8.55	-	701.4	=	2417
MPSP (0.375 x BHP) =	0.375	x	7014	x	0.052	x	8.55	=	1169
Burst Design Factor (Max. MPSP) =	7740	/	3000	=	2.58				
MAWP for the Fracture Stimulation =	7740	/	1.15	=	6730				

Collapse Design (Safety) Factors – ConocoPhillips Criteria

The maximum collapse load on the Surface Casing occurs when the pressure is released after bumping the plug on the surface casing cement job. The maximum collapse load on the production casing occurs with the well is pumped off on production. We plan to cement the production casing to surface, and therefore the external pressure profile on the production casing should be equal to the pore pressure of the horizons on the outside of the casing which we estimate to be 8.55 ppg gradient.

Surface Casing Collapse Design Factor = Collapse Rating / (Cement Column Hydrostatic Pressure – Displacement Fluid Hydrostatic Pressure)

Production Casing Collapse Design Factor = Collapse Rating / Maximum Possible Pore Pressure

Surface Casing Collapse Design Factor:

Collapse Design Factor =	1370	/ [(	300	x	0.052	x	14.8	) + (	519	x	0.052	x	13.6	) -	362
Collapse Design Factor =	1370	/	236	=	5.81										

Production Casing Collapse Design Factor:

Collapse Design Factor =	6290	/ (	8.55	x	0.052	x	7014	)
Collapse Design Factor =	6290	/	3118	=	2.02			

Joint Strength Design (Safety) Factors – ConocoPhillips Criteria

The maximum axial (tension) load occurs if casing were to get stuck and pulled on to try to get it unstuck.

Maximum Allowable Hookload = Joint Strength Rating / Axial Design Factor

Overpull Margin (Air Wt) = Maximum Allowable Hook Load - Air Wt of the String

Overpull Margin (Bouyant) = Maximum Allowable Hook Load - Air Wt of the String

Surface Casing (Minimum Pipe Yield)

Max Hookload (Air Wt) =	19656							
Max Hookload (Bouyant) + Overpull =	100,000	+ (	19656	x	0.870	) =	117105	
Tensile Design Factor =	397000	/	117105	=	3.39			
Actual Overpull Margin to Satisfy COP min DF =	397000	/	1.40	-	17105	=	266466	

Production Casing (Minimum Pipe Yield)

Max Hookload (Air Wt) =	119238							
Max Hookload (Bouyant) + Overpull =	100,000	+ (	119238	x	0.847	) =	201034	
Tensile Design Factor =	381000	/	201034	=	1.90			
Actual Overpull Margin to Satisfy COP min DF =	381000	/	1.40	-	101034	=	171109	

Surface Casing (Minimum Jt Strength)

Max Hookload (Air Wt) =	19656							
Max Hookload (Bouyant) + Overpull =	100,000	+ (	19656	x	0.870	) =	117105	
Tensile Design Factor =	244000	/	117105	=	2.08			
Actual Overpull Margin to Satisfy COP min DF =	244000	/	1.40	-	17105	=	157180	

Surface Casing (Minimum Jt Strength)

Max Hookload (Air Wt) =	119238							
Max Hookload (Bouyant) + Overpull =	100,000	+ (	119238	x	0.847	) =	201034	
Tensile Design Factor =	338000	/	201034	=	1.68			
Actual Overpull Margin to Satisfy COP min DF =	338000	/	1.40	-	101034	=	140395	

3. **Proposed cementing program:**

16" or 13-3/8" Conductor:

Cement to surface with rathole mix, ready mix or Class C Neat cement.
(Note: The gravel used in the cement is not to exceed 3/8" diameter)
TOC at surface.

8-5/8" Surface Casing & Cementing Program: 8-5/8" 24# J-55 STC

The intention for the cementing program for the Surface Casing is to:
- Place the Tail Slurry from the casing shoe to 300' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft^3/sx
Lead	Class C	Surface	474' – 519'	13.6	350	595	4%Bentonite 2%CaCl2 .125%Polyflake 0.2% antifoam Excess =230% based on gauge hole volume	1.70
Tail	Class C	474' – 519'	774' – 819'	14.8	200	268	1% CaCl2 Excess = 100% based on gauge hole volume	1.34

Displacement: Fresh Water.

Note: In accordance with the Pecos District Conditions of Approval, we will Wait on Cement (WOC) for a period of not less than 18 hrs after placement or until at least 500 psi compressive strength has been reached in both the Lead Slurry and Tail Slurry cements on the Surface Casing, whichever is greater.

5-1/2" Production Casing & Cementing Program: 5-1/2" 17# L-80 LTC

The intention for the cementing program for the Production Casing is to:
- Place the Tail Slurry from the casing shoe to a point approximately 200' above the top of the Paddock,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft^3/sx
Lead	50:50 Poz/C	Surface	5200'	11.8	1000	2640	10% Bentonite 8 lbs/sx Salt 0.4% Fluid loss additive 0.125% LCM if needed Excess = 220% or more if needed based on gauge hole volume	2.64
Tail	Class H	5200'	6969' – 7014'	16.4	650	696	0.2% Fluid loss additive 0.3% Dispersant 0.15% Retarder 0.2% Antifoam Excess = 100% or more if needed based on gauge hole volume	1.07

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

Proposal for Option to Adjust Production Casing Cement Volumes:

The production casing cement volume presented above are estimates based on gauge 7-7/8" hole. We will adjust these volumes based on the caliper log data for each well and our trends for amount of cement returns to surface. Also, if no caliper log is available for any particular well, we would propose an option to possibly increase the production casing cement volume to account for any uncertainty in regard to the hole volume.

4. Pressure Control Equipment:

A 11" 3M system will be installed, used, maintained, and tested accordingly as described in Onshore Oil and Gas Order No. 2.

Our BOP equipment will be:
- Rotating Head
- Annular BOP, 11" 3M
- Blind Ram, 11" 3M
- Pipe Ram, 11" 3M

After nippling up, and every 30 days thereafter or whenever any seal subject to test pressure is broken followed by related repairs, blowout preventors will be pressure tested. BOP will be inspected and operated at least daily to insure good working order. All pressure and operating tests will be done by an independent service company and recorded on the daily drilling reports. BOP will be tested using a test plug to isolate BOP stack from casing. BOP test will include a low pressure test from 250 to 300 psi for a minimum of 10 minutes or until requirements of test are met, whichever is longer. Ram type preventers and associated equipment will be tested to the approved stack working pressure of 3000 psi isolated by test plug. Annular type preventers will be tested to 50 percent of rated working pressure, and therefore will be tested to 1500 psi. Pressure will be held for at least 10 minutes or until provisions of test are met, whichever is longer. Valve on casing head below test plug will be open during testing of BOP stack. BOP will comply with all provisions of Onshore Oil and Gas Order No. 2 as specified. **See Attached BOPE Schematic.** The BOPE may be configured to use flexible hose. Pressure test data and hose specification information will be provided in the variance request to BLM prior to site construction.

5. Proposed Mud System

The mud systems that are proposed for use are as follows:

DEPTH	TYPE	Density ppg	FV sec/qt	API Fluid Loss cc/30 min	pH	Vol bbl
0 – Surface Casing Point	Fresh Water or Fresh Water Native Mud	8.5 – 9.0	28 – 40	N.C.	N.C.	120 – 160
Surface Casing Point to TD	Brine (Saturated $NaCl_2$)	10	29	N.C.	10 – 11	1250 - 2500
Conversion to Mud at TD	Brine Based Mud ($NaCl_2$)	10	34 – 45	5 – 10	10 – 11	0 - 1250

Drilling mud containing H2S shall be degassed in accordance with API RP-49, item 5.14. The gases shall be piped into the flare system. Gas detection equipment and pit level flow monitoring equipment will be on location. ConocoPhillips Company will maintain sufficient mud and weighting material on location at all times.

Proposal for Option to Not Mud Up at TD:

FW, Brine, and Mud volume presented above are estimates based on gauge 12-1/4" or 7-7/8" holes. We will adjust these volume based on hole conditions. Also, we propose an option to not mud up leaving only brine in the hole.

6. **Logging, Coring, and Testing Program:**
   a. No drill stem tests will be done
   b. Mud logging planned for the production hole section (optional).
   c. No whole cores are planned
   d. The open hole electrical logging program is planned to be as follows:
      - Total Depth to 2500': Resistivity, Density, and Gamma Ray
      - Total Depth to surface Casing Shoe: Caliper
      - Total Depth to surface, Gamma Ray and Neutron
      - Formation pressure data (XPT) on electric line if needed (optional)
      - Rotary Sidewall Cores on electric line if needed (optional)
      - BHC or Dipole Sonic if needed (optional)
      - Spectral Gamma Ray if needed (optional)

- **Abnormal Pressures and Temperatures:**

  - No abnormal pressures are expected to be encountered.

  - 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.

    - The bottom hole pressure is expected to be 8.55 ppg gradient.
    - The expected Bottom Hole Temperature is 115 degrees F.

  - The estimated H_2S concentrations and ROE calculations for the gas in the zones to be penetrated are presented in the table below for the various producing horizons in this area:

FORMATION / ZONE	H2S (PPM)	Gas Rate (MCFD)	ROE 100 PPM	ROE 500 PPM
Grayburg / San Andres (from MCA)	14000	38	59	27
Yeso Group	400	433	34	15

ConocoPhillips will comply with the provisions of Oil and Gas Order # 6

8. **Anticipated starting date and duration of operations:**

Well pad and road constructions will begin as soon as all agency approvals are obtained. Anticipated date to drill these wells begin from late 2012 through the 2013 after receiving approval of the APD.

Attachments:

- Attachment # 1 ..... BOP and Choke Manifold Schematic – 3M System
- Attachment # 2 ..... Diagram of Choke Manifold Equipment

Contact Information:

Program prepared by:
James Chen
Drilling Engineer, ConocoPhillips Company
Phone (832) 486-2184
Cell (832) 768-1647
Date: 25 September 2012

ConocoPhillips MCBU

Buckeye
Ruby Federal
Ruby Federal 15

Original Hole

Plan: Actual Plan

Standard Planning Report - Geographic

24 September, 2012

ConocoPhillips

Planning Report - Geographic

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Site Ruby Federal
Company:	ConocoPhillips MCBU	**TVD Reference:**	RKB @ 4021.0usft (PD 822)
Project:	Buckeye	**MD Reference:**	RKB @ 4021.0usft (PD 822)
Site:	Ruby Federal	**North Reference:**	Grid
Well:	Ruby Federal 15	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

Project	Buckeye, Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Ruby Federal, New Mexico, Southeast				
Site Position:		**Northing:**	666,097.48 usft	**Latitude:**	32° 49' 48.040 N
From:	Lat/Long	**Easting:**	666,763.62 usft	**Longitude:**	103° 47' 25.559 W
Position Uncertainty:	3.5 usft	**Slot Radius:**	8"	**Grid Convergence:**	0.29 °

Well	Ruby Federal 15, Directional Well					
Well Position	**+N/-S**	783.7 usft	**Northing:**	666,881.20 usft	**Latitude:**	32° 49' 55.738 N
	+E/-W	1,107.9 usft	**Easting:**	667,871.49 usft	**Longitude:**	103° 47' 12.528 W
Position Uncertainty		3.5 usft	**Wellhead Elevation:**	usft	**Ground Level:**	4,008.0 usft

Wellbore	Original Hole				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2012	9/21/2012	7.67	60.64	48,821

Design	Actual Plan				
Audit Notes:					
Version:	1	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	783.7	1,107.9	258.09	

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	0.00	0.00	0.0	783.7	1,107.9	0.00	0.00	0.00	0.00	
1,934.0	0.00	0.00	1,934.0	783.7	1,107.9	0.00	0.00	0.00	0.00	
2,861.1	13.91	258.09	2,852.0	760.6	998.3	1.50	1.50	0.00	258.09	
4,522.7	13.91	258.09	4,465.0	678.2	607.6	0.00	0.00	0.00	0.00	
5,449.9	0.00	0.00	5,383.0	655.1	498.0	1.50	-1.50	0.00	180.00	Ruby Federal (Alt. BH
7,023.9	0.00	0.00	6,957.0	655.1	498.0	0.00	0.00	0.00	0.00	

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Site Ruby Federal
Company:	ConocoPhillips MCBU	**TVD Reference:**	RKB @ 4021.0usft (PD 822)
Project:	Buckeye	**MD Reference:**	RKB @ 4021.0usft (PD 822)
Site:	Ruby Federal	**North Reference:**	Grid
Well:	Ruby Federal 15	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
85.0	0.00	0.00	85.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
Conductor									
100.0	0.00	0.00	100.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
200.0	0.00	0.00	200.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
300.0	0.00	0.00	300.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
400.0	0.00	0.00	400.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
500.0	0.00	0.00	500.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
600.0	0.00	0.00	600.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
700.0	0.00	0.00	700.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
749.0	0.00	0.00	749.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
Rustler									
774.0	0.00	0.00	774.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
Surface									
800.0	0.00	0.00	800.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
900.0	0.00	0.00	900.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
927.0	0.00	0.00	927.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
Salado									
1,000.0	0.00	0.00	1,000.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,100.0	0.00	0.00	1,100.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,200.0	0.00	0.00	1,200.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,300.0	0.00	0.00	1,300.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,400.0	0.00	0.00	1,400.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,500.0	0.00	0.00	1,500.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,600.0	0.00	0.00	1,600.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,700.0	0.00	0.00	1,700.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,800.0	0.00	0.00	1,800.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,900.0	0.00	0.00	1,900.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
1,934.0	0.00	0.00	1,934.0	783.7	1,107.9	666,881.20	667,871.49	32° 49' 55.738 N	103° 47' 12.528 W
Tansill									
2,000.0	0.99	258.09	2,000.0	783.6	1,107.3	666,881.08	667,870.93	32° 49' 55.737 N	103° 47' 12.534 W
2,080.0	2.19	258.09	2,080.0	783.1	1,105.1	666,880.62	667,868.76	32° 49' 55.732 N	103° 47' 12.560 W
Yates									
2,100.0	2.49	258.09	2,099.9	783.0	1,104.3	666,880.45	667,867.96	32° 49' 55.731 N	103° 47' 12.569 W
2,200.0	3.99	258.09	2,199.8	781.8	1,098.8	666,879.29	667,862.43	32° 49' 55.720 N	103° 47' 12.634 W
2,300.0	5.49	258.09	2,299.4	780.1	1,090.7	666,877.58	667,854.35	32° 49' 55.703 N	103° 47' 12.729 W
2,392.1	6.87	258.09	2,391.0	778.1	1,081.0	666,875.54	667,844.64	32° 49' 55.683 N	103° 47' 12.843 W
Seven Rivers									
2,400.0	6.99	258.09	2,398.8	777.9	1,080.1	666,875.34	667,843.71	32° 49' 55.681 N	103° 47' 12.854 W
2,500.0	8.49	258.09	2,497.9	775.1	1,066.9	666,872.56	667,830.53	32° 49' 55.655 N	103° 47' 13.008 W
2,600.0	9.99	258.09	2,596.6	771.8	1,051.2	666,869.25	667,814.82	32° 49' 55.623 N	103° 47' 13.193 W
2,700.0	11.49	258.09	2,694.9	767.9	1,033.0	666,865.40	667,796.59	32° 49' 55.586 N	103° 47' 13.407 W
2,800.0	12.99	258.09	2,792.6	763.6	1,012.2	666,861.03	667,775.85	32° 49' 55.543 N	103° 47' 13.650 W
2,861.1	13.91	258.09	2,852.0	760.6	998.3	666,858.09	667,761.94	32° 49' 55.515 N	103° 47' 13.813 W
2,900.0	13.91	258.09	2,889.8	758.7	989.2	666,856.16	667,752.79	32° 49' 55.496 N	103° 47' 13.920 W
3,000.0	13.91	258.09	2,986.9	753.7	965.7	666,851.20	667,729.28	32° 49' 55.448 N	103° 47' 14.196 W
3,053.7	13.91	258.09	3,039.0	751.1	953.0	666,848.54	667,716.64	32° 49' 55.423 N	103° 47' 14.345 W
Queen									
3,100.0	13.91	258.09	3,083.9	748.8	942.1	666,846.25	667,705.76	32° 49' 55.401 N	103° 47' 14.472 W
3,200.0	13.91	258.09	3,181.0	743.8	918.6	666,841.29	667,682.24	32° 49' 55.353 N	103° 47' 14.748 W
3,300.0	13.91	258.09	3,278.1	738.8	895.1	666,836.33	667,658.73	32° 49' 55.305 N	103° 47' 15.024 W
3,400.0	13.91	258.09	3,375.1	733.9	871.6	666,831.37	667,635.21	32° 49' 55.257 N	103° 47' 15.300 W

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Site Ruby Federal
Company:	ConocoPhillips MCBU	**TVD Reference:**	RKB @ 4021.0usft (PD 822)
Project:	Buckeye	**MD Reference:**	RKB @ 4021.0usft (PD 822)
Site:	Ruby Federal	**North Reference:**	Grid
Well:	Ruby Federal 15	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,488.5	13.91	258.09	3,461.0	729.5	850.8	666,826.98	667,614.41	32° 49' 55.215 N	103° 47' 15.544 W
Grayburg									
3,500.0	13.91	258.09	3,472.2	728.9	848.1	666,826.41	667,611.69	32° 49' 55.209 N	103° 47' 15.576 W
3,600.0	13.91	258.09	3,569.3	724.0	824.6	666,821.45	667,588.18	32° 49' 55.161 N	103° 47' 15.852 W
3,700.0	13.91	258.09	3,666.3	719.0	801.0	666,816.49	667,564.66	32° 49' 55.113 N	103° 47' 16.128 W
3,800.0	13.91	258.09	3,763.4	714.1	777.5	666,811.53	667,541.14	32° 49' 55.065 N	103° 47' 16.404 W
3,882.0	13.91	258.09	3,843.0	710.0	758.2	666,807.46	667,521.86	32° 49' 55.026 N	103° 47' 16.630 W
San Andres									
3,900.0	13.91	258.09	3,860.5	709.1	754.0	666,806.57	667,517.63	32° 49' 55.018 N	103° 47' 16.679 W
4,000.0	13.91	258.09	3,957.5	704.1	730.5	666,801.61	667,494.11	32° 49' 54.970 N	103° 47' 16.955 W
4,100.0	13.91	258.09	4,054.6	699.2	707.0	666,796.65	667,470.59	32° 49' 54.922 N	103° 47' 17.231 W
4,200.0	13.91	258.09	4,151.7	694.2	683.5	666,791.69	667,447.07	32° 49' 54.874 N	103° 47' 17.507 W
4,300.0	13.91	258.09	4,248.7	689.3	659.9	666,786.73	667,423.56	32° 49' 54.826 N	103° 47' 17.783 W
4,400.0	13.91	258.09	4,345.8	684.3	636.4	666,781.77	667,400.04	32° 49' 54.778 N	103° 47' 18.059 W
4,500.0	13.91	258.09	4,442.9	679.3	612.9	666,776.81	667,376.52	32° 49' 54.730 N	103° 47' 18.335 W
4,522.7	13.91	258.09	4,465.0	678.2	607.6	666,775.68	667,371.18	32° 49' 54.719 N	103° 47' 18.398 W
4,600.0	12.75	258.09	4,540.1	674.5	590.1	666,772.01	667,353.75	32° 49' 54.684 N	103° 47' 18.602 W
4,700.0	11.25	258.09	4,637.9	670.2	569.8	666,767.72	667,333.41	32° 49' 54.643 N	103° 47' 18.841 W
4,800.0	9.75	258.09	4,736.3	666.5	552.0	666,763.96	667,315.58	32° 49' 54.606 N	103° 47' 19.050 W
4,900.0	8.25	258.09	4,835.0	663.3	536.7	666,760.73	667,300.28	32° 49' 54.575 N	103° 47' 19.229 W
5,000.0	6.75	258.09	4,934.2	660.6	523.9	666,758.04	667,287.51	32° 49' 54.549 N	103° 47' 19.379 W
5,100.0	5.25	258.09	5,033.6	658.4	513.7	666,755.88	667,277.29	32° 49' 54.528 N	103° 47' 19.499 W
5,200.0	3.75	258.09	5,133.3	656.8	506.0	666,754.26	667,269.62	32° 49' 54.513 N	103° 47' 19.589 W
5,300.0	2.25	258.09	5,233.2	655.7	500.9	666,753.18	667,264.50	32° 49' 54.502 N	103° 47' 19.649 W
5,369.9	1.20	258.09	5,303.0	655.3	498.8	666,752.75	667,262.44	32° 49' 54.498 N	103° 47' 19.673 W
Glorieta									
5,400.0	0.75	258.09	5,333.1	655.2	498.3	666,752.64	667,261.94	32° 49' 54.497 N	103° 47' 19.679 W
5,449.9	0.00	0.00	5,383.0	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
Paddock									
5,500.0	0.00	0.00	5,433.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
5,600.0	0.00	0.00	5,533.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
5,700.0	0.00	0.00	5,633.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
5,800.0	0.00	0.00	5,733.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
5,838.9	0.00	0.00	5,772.0	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
Blinebry									
5,900.0	0.00	0.00	5,833.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,000.0	0.00	0.00	5,933.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,100.0	0.00	0.00	6,033.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,200.0	0.00	0.00	6,133.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,300.0	0.00	0.00	6,233.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,400.0	0.00	0.00	6,333.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,500.0	0.00	0.00	6,433.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,600.0	0.00	0.00	6,533.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,700.0	0.00	0.00	6,633.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,800.0	0.00	0.00	6,733.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
6,823.9	0.00	0.00	6,757.0	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
Tubb									
6,900.0	0.00	0.00	6,833.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
7,000.0	0.00	0.00	6,933.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
7,014.0	0.00	0.00	6,947.1	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
Production									
7,023.9	0.00	0.00	6,957.0	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
TD									

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Site Ruby Federal
Company:	ConocoPhillips MCBU	**TVD Reference:**	RKB @ 4021.0usft (PD 822)
Project:	Buckeye	**MD Reference:**	RKB @ 4021.0usft (PD 822)
Site:	Ruby Federal	**North Reference:**	Grid
Well:	Ruby Federal 15	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	Actual Plan		

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
Ruby Federal (Alt. BHL) - plan hits target center - Point	0.00	0.00	5,383.0	655.1	498.0	666,752.58	667,261.62	32° 49' 54.496 N	103° 47' 19.683 W
Ruby Federal 15 (Origin - plan misses target center by 113.8usft at 5449.9usft MD (5383.0 TVD, 655.1 N, 498.0 E) - Circle (radius 150.0)	0.00	0.00	5,383.0	631.7	386.6	666,729.13	667,150.22	32° 49' 54.270 N	103° 47' 20.990 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
85.0	85.0	Conductor	16	20
774.0	774.0	Surface	8-5/8	12-1/4
7,014.0	6,947.1	Production	5-1/2	7-7/8

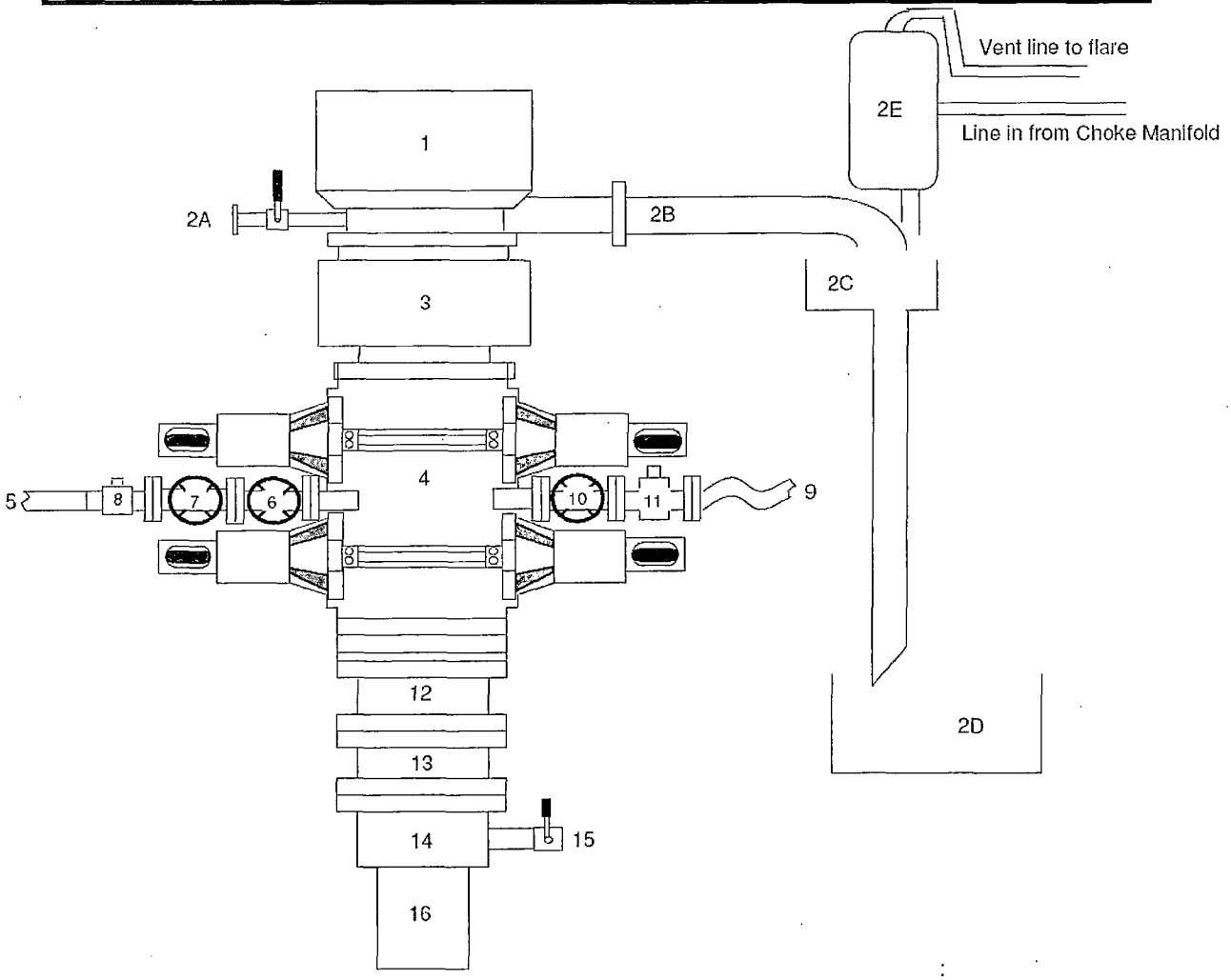
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,392.1	2,391.0	Seven Rivers		0.00	
7,023.9	6,957.0	TD		0.00	
3,488.5	3,461.0	Grayburg		0.00	
3,882.0	3,843.0	San Andres		0.00	
749.0	749.0	Rustler		0.00	
5,369.9	5,303.0	Glorieta		0.00	
5,838.9	5,772.0	Blinebry		0.00	
5,449.9	5,383.0	Paddock		0.00	
2,080.0	2,080.0	Yates		0.00	
6,823.9	6,757.0	Tubb		0.00	
3,053.7	3,039.0	Queen		0.00	
927.0	927.0	Salado		0.00	
1,934.0	1,934.0	Tansill		0.00	

Attachment # 1

BLOWOUT PREVENTER ARRANGEMENT

3M System per Onshore Oil and Gas Order No. 2 utilizing 3M and 5M Rated Equipment



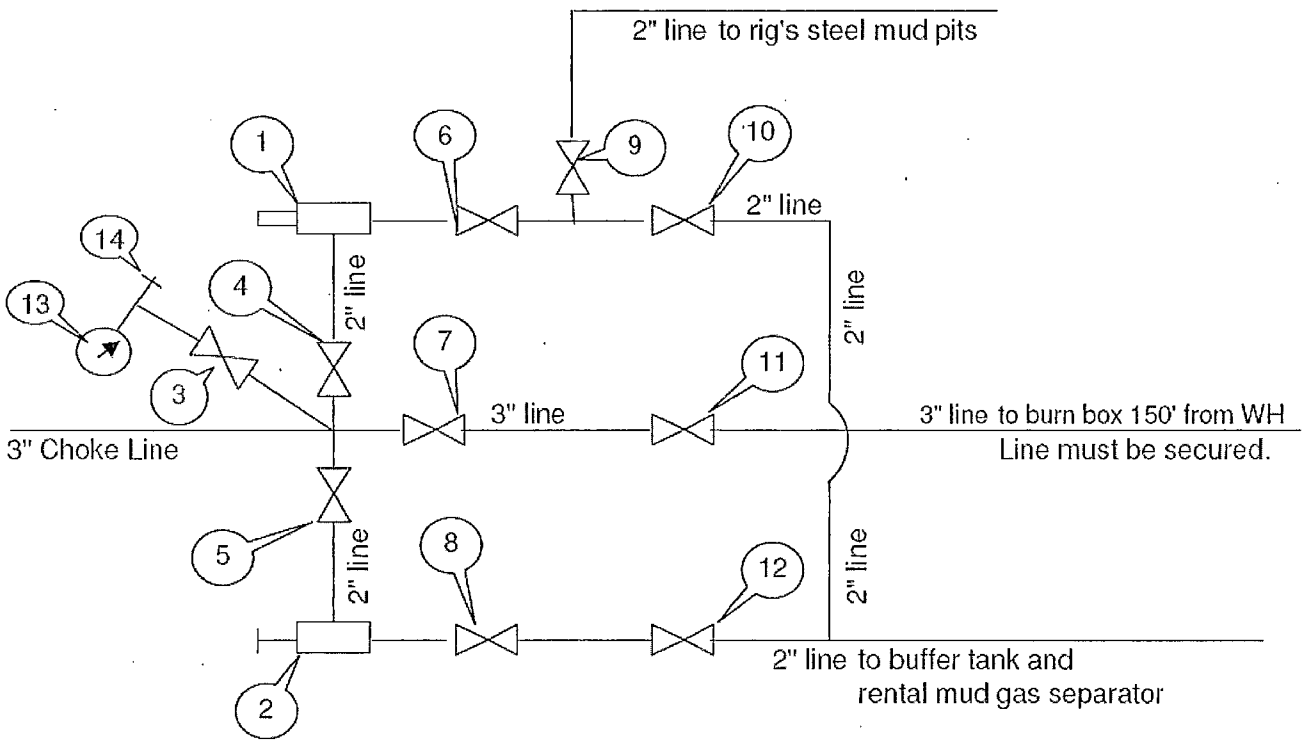
Item	Description
1	Rotating Head, 11"
2A	Fill up Line and Valve
2B	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (11", 3M)
4	Double Ram (11", 3M, equipped with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

Submitted by: James Chen, Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 25-Sep-2012

Attachment # 2

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	Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M
2	Manual Adjustable Choke, 2-1/16", 3M
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.

Drawn by:
Steven O. Moore
Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company
Date: 25-Sept-2012

Request for Variance
ConocoPhillips Company
Lease Number: NM LC 029405B
Well: Ruby Federal #15
Location: Sec. 17, T17S, R32E
Date: 09-28-12

Request:

ConocoPhillips Company respectfully requests a variance to install a flexible choke line instead of a straight choke line prescribed in the Onshore Order No. 2, III.A.2.b Minimum standards and enforcement provisions for choke manifold equipment. This request is made under the provision of Onshore Order No. 2, IV Variances from Minimum Standard. The rig to be used to drill this well is equipped with a flexible choke line if the requested variance is approved and determined that the proposed alternative meets the objectives of the applicable minimum standards.

Justifications:

The applicability of the flexible choke line will reduce the number of target tees required to make up from the choke valve to the choke manifold. This configuration will facilitate ease of rig up and BOPE Testing.

Attachments:

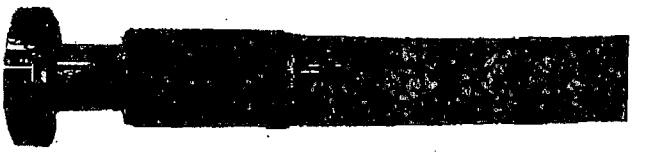
- Attachment # 1 Specification from Manufacturer
- Attachment # 2 Mill & Test Certification from Manufacturer

Contact Information:

Program prepared by:
James Chen
Drilling Engineer, ConocoPhillips Company
Phone (832) 486-2184
Cell (832) 768-1647
Date: 28 September 2012

Attachment # 1

RELIANCE
Industrial Products USA, Ltd.



RELIANCE

Reliance Eliminator Choke & Kill

This hose can be used as a choke hose which connects the BOP stack to the bleed-off manifold or a kill hose which connects the mud stand pipe to the BOP kill valve.

The Reliance Eliminator Choke & Kill hose contains a specially bonded compounded cover that replaces rubber covered Asbestos, Fibreglass and other fire retardant materials which are prone to damage. This high cut and gouge resistant cover overcomes costly repairs and downtime associated with older designs.

The Reliance Eliminator Choke & Kill hose has been verified by an independent engineer to meet and exceed EUB Directive 36 (700°C for 5 minutes).

Nom. ID		Nom OD		Weight		Min Bend Radius		Max WP	
in.	mm.	in.	mm	lb/ft	kg/m	in.	mm.	psi	Mpa
3	76.2	5.11	129.79	14.5	21.46	48	1219.2	5000	34.47
3-1/2	88.9	5.79	147.06	20.14	29.80	54	1371.6	5000	34.47

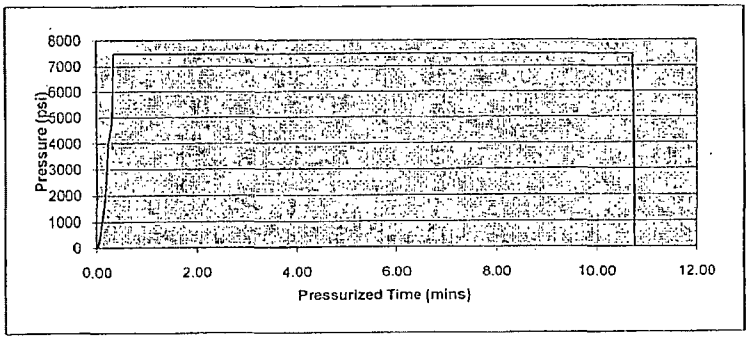
Fittings	Flanges	Hammer Unions	Other
RC4X5055	R35 - 3-1/8 5000# API Type 6B	All Union Configurations	LP Threaded Connectio
RC3X5055	R31 - 3-1/8 3000# API Type 6B		Graylock
RC4X5575			Custom Ends

Attachment # 2

RELIANCE
Industrial Products USA, Ltd.
2030 E. 8th Street, Suite B • Greeley, CO 80631
Ph: (970) 346-3751 • Fax: (970) 353-3168 • Toll Free: (866) 771-9739

T E S T C E R T I F I C A T E

Customer:	PRECISION DRILLING	Cert No.:	27792
P.O. #:	RIG 822	Date:	9/21/2012
Invoice #:	27792		
Material:	3 1/2" FIREGUARD		
Description:	3 1/2" X 10'		
Coupling 1:	3 1/2" FLANGE R31		
" Serial:			
" Quality:			
Coupling 2:	3 1/2" FLOATING R31		
" Serial:			
" Quality:			
Working Pressure :	3000		
Test Pressure:	7500		
Duration (mins):	10		



Conducted By: FLORES M.
Test Technician

☑ Acceptable
☐ Not Acceptable

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

ConocoPhillips Company
Well: Ruby Federal #15
Location: Sec. 17, T17S, R32E
Date: 09-25-12

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

1. 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, nor will we use a drying pad, nor will we build an earth pit above ground level, nor will we 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 haul-off bins or in frac tanks as needed. The intent is as follows:

   - We propose to use the rigs' 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 by each tour and any need repairs will be made immediately. Any leak in the system will be repaired immediately, and 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 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:

   Controlled Recovery Inc,
   4507 West Carlsbad Hwy, Hobbs, NM 88240,
   P.O. Box 388; Hobbs, New Mexico 88241
   Toll Free Phone: 877.505.4274, Local Phone Number: 432.638.4076

   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 CRI is R9166

   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 Controlled Recovery 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, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: **Section 3, T19S R37E**)

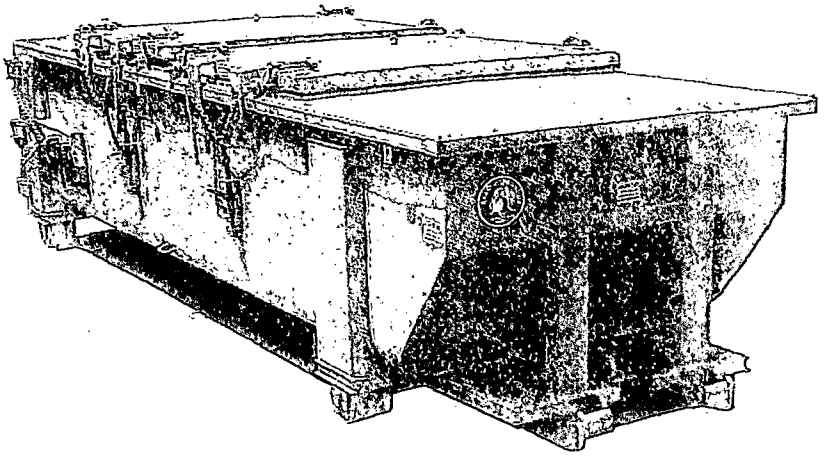
   - Basic Energy Services, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

James Chen
Drilling Engineer
Office: 832.486.2184
Cell: 832.678.1647

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 inside liner hooks
DOOR: 3/16" PL with tubing frame
FRONT: 3/16" PL slant formed
PICK UP: Standard cable with 2" x 6" x 1/4" rails, gusset at each crossmember
WHEELS: 10 DIA x 9 long with rease fittings
DOOR LATCH: 3 independent ratchet binders with chains, vertical second latch
GASKETS: Extruded rubber seal with metal retainers
WELDS: All welds continuous except sub-structure crossmembers
FINISH: Coated inside and out with direct to metal rust inhibiting acrylic enamel color coat
HYDROTESTING: Full capacity static test
DIMENSIONS: 22'-11" long (21'-8" inside), 99" wide (88" inside), see drawing for height
OPTIONS: Steel grit blast and special paint, Ampliroll, 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 container
LATCH: (2) independent ratchet binders with chains per lid
GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



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