Form 3160 -3 (March 2012) OCD HobbsHOBBS OCD

OMB No. 1004-0137 Expires October 31, 2014

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DEC 0 3 20 45.

Lease Serial No. NMLC029405B

6. If Indian, Allotee or Tribe Name

APPLICATION	FOR	PERMIT	TO	DRILL	OR	REENTER

AFFLICATION	TON PENNIT TO	DRILL ON RELIVIER R	ECEIVE	N/A	` /
la. Type of work: X DRILL	REENTE	BR .		7. If Unit or CA Agreement, N N/A	Name and No.
lb. Type of Well: X Oil Well	Gas Well Other	Single Zone X Multi	ple Zone	8. Lease Name and Well No. Ruby Federal	38653
Name of Operator ConocoPhillips Company	(217817)			9. API Well No. 30-025- 422	79
3a. Address 600 N. Dairy Ashfor 4054 Houston, TX 77079	u 10-4-	3b. Phone No. (include area code) (281)206-5281		10. Field and Pool, or Explorate Maljamar; Yeso Wes	1
4. Location of Well (Report location clean At surface UL J, Sec. 17, T17	arly and in accordance with an	·	_	11. Sec., T. R. M. or Blk. and S Sec. 17, T17S, R32E	•
At proposed prod. zone same		IOCATION			
 Distance in miles and direction from ne Approximately 3.5 miles sou 		no ornaros.		12. County or Parish Lea County	13. State NM
5. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	201'	16. No. of acres in lease 1601.96	17. Spacing	g Unit dedicated to this well es	
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	130'	19. Proposed Depth 6970' TD/TVD	20. BLM/E ES008.	SIA Bond No. on file 5	
1. Elevations (Show whether DF, KDB, 4008' GL	RT, GL, etc.)	22. Approximate date work will sta 12/01/2014	rt*	23. Estimated duration 7 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).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the

25.	Signature Sugar	B.H	Jaurde	
T'41.		=	-	

Name (Printed/Typed) Susan B. Maunder

03/04/2014

Title

Senior Regulatory Specialist

Approved by (Signate Steve Caffey

Name (Printed/Typed)

NOV 24

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

12/03/14

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

HOBBS OCD

Operator Certification

DEC 03 2014

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CONOCOPHILLIPS COMPANY

CERTIFICATION:

I hereby certify that I, or persons 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 that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application with bond coverage provided by Nationwide Bond ES0085. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Susan B. Maunder

Senior Regulatory Specialist

Drilling Plan ConocoPhillips Company Maljamar; Yeso (west)

HOBBS OCD

DEC 03 2014

Ruby Federal #61

Lea County, New Mexico

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

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

Formations	Top Depths FT MD	Contents
Quaternary	Surface	Fresh Water
Rustler	760	Anhydrite
Salado (top of salt)	940	Salt
Tansill (base of salt)	1945	Gas, Oil and Water
Yates	2080	Gas, Oil and Water
Seven Rivers	2410	Gas, Oil and Water
Queen	3040	Gas, Oil and Water
Grayburg	3455	Gas, Oil and Water
San Andres	3835	Gas, Oil and Water
Glorieta	5300	Gas, Oil and Water
Paddock	5400	Gas, Oil and Water
Blinebry	5745	Gas, Oil and Water
Tubb	6770	Gas, Oil and Water
Deepest estimated perforation	6770	Deepest estimated perf. is ~ Top of Tubb
Total Depth (maximum)	6970	200' below deepest estimated perforation

All of the water bearing formations identified above will be protected by setting of the <u>8-5/8"</u> surface casing <u>25' – 70' into the Rustler formation</u> 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.

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2. Proposed casing program:

Type	Hole Size	M	Interval D RKB (ft)	OD	Wt	Gr	Conn	MiY	Col	Jt Str		Safety Fa lated per Co Corporate (nocoPhillips
Type	(in)	From	То	(inches)	(lb/ft)	G,	Com	(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	В	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	7 85 ' –830'	8-5/8	24#	J-55	STC	2950	1370	244	1.56	3.46	3.56
Prod	7-7/8	0	6915' – 6960'	5-1/2	17#	L-80	LTC	7740	6290	338	2.12	2.51	1.98

The casing will be suitable for H₂S Service. All casing will be new.

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 Safety Factors - BLM Criteria:

Туре	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	830	24	2950	1370	244000	8.5	8.04	3.73	12.2	14.1
Production Casing	6960	17	7740	6290	338000	10	2.14	1.74	2.86	3.37

<u>Casing Safety Factors – Additional ConocoPhillips Criteria:</u>

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

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Туре	Depth V			Col	Jt Str	Pipe Yield		Burst	Cal	Ten					
Conductor Surface Casing (8-5/6" 246 J-55 STC)	85 83D	65 24	35300 2950	137	244000	432966 351000		1.5	2 3.7	- 1 3.E	3				
Production Casing (5-1/2" 17# L-80 LTC)	59GD	17	7740	_						_	_				
<u>-</u>															
Burst - ConocoPhillips Required Load Cases															
The maximum internal (burst) load on the Surface Casing occurs when the sur							നമ്പ്യാ).								
The maximum informal (burst) load on the Production Gasing occurs during the (MR/F) is the presente that would it Donaco Philips Corporate Orders for Min.		ionwhere	nza edl	nin afar	rable working (CESTI118									
Euritea Casing Test Praissina ::	150D pr	31			Producted Por	e Praziure at T	(FPTD) =	8.5	prog						
Surince Rated Working Pressure (BCPE) = Feats SW =	5000 cs			P	radided Proci	Emotent et Six	= (D723) a:	19.23	<u>i jeng</u>						
Surface Casing Bunt Salety Factor a API Burst Rating / Maconin			uro (MFS)	OF W	zacin Albas	tile Surface Fr	ezsura (MASP)							
Production Casing MANYF for the Fracture Stimulation ± AFI Euro	a Haing / Corpor	raia Mirin	num Euss	Cesign F:	azior										
Surface Casing Burst Safety Factor:									•						
Case #1. MPSP (MWm/s next section) =		ĸ	0.052	x	10	-	432		•						
Case #2. MPSP (Fie'd SW @ Bu'lhead ₀₌₀ + 200 psi) = Case #3. MPSP (Kick Yol @ next section TD) =		x	0.052 0.052	×	19.23 8.55	-	452 613	+	230 357	-	598 2115				
Case #4. MPSP (PPTD - GG) =		X	0.052	×	8.55	-	696	-	2393	-	2113				
Case #3 & #4 Limited to MPSP (CSFG = 0.2 ppg) =		x	0.052	x {	19.23	+	0.2	>-	829						
MASP (MVm;r + Test Pressure) = Burst Salety Factor (Max. MPSP or MASP) =		X /	0.052 1857	×	2.5 1.58	+	1500	-	1057						
Production Casing Burst Safety Factor:		•													
CESE #1. MPSP (MW my 1 TD) — CESE #4. MPSP (PPTD - GG) —		X X	0.052 0.052	×	10 8.55	-	3619.2 696		2353						
Burst Salety Factor (Max. MPSP) -		7	3619	_	2.14	-	650	-	2350						
MAWP for the Fracture Stimulation (Corporate Criteria) -	774D	/ [1.15	-	6730										
Collepse - ConocoPhillips Required Load Cases															
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Cementing Diff Lift Pressure -	E 1	1760		0.052	×	11.8) + {	5200	×	0.052	х	15.4) -	3019] -	2495
Collapse Salety Factor =	529D	ľ	2495	-	2.52										
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Surface Casing Tensial Strength Safety Factor: Air Wt -	19920														
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Max. Allowable Hook Load (Limited to 75% of Rig Max Load) =	174265	_				,	4E707-								
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Max . A llowable Axial Load (Pipe Yield) =	397COD	î	1.40	_	283571										
Max. Allowable Axial Load (Joint) -	339300 225000	1	1.40	-	241429										
Max. Allowable Hook Load (Limited to 75% of Rig Max Load) = Max. Allowable Overpull Margin =		- (1	18320	×	0.647	} =	124744								
Tensial Salety Factor -			00256	+	50 00 0	} -	2.00								
Compression Strength - ConocoPhillips Required Load Cass															
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Tubing Fluid Wi =		×	0.052	x	6.55 100256	×	0.785598 45240	X	2.441 11094	*2 -	11094 176925				
Load on Conductor = Conductor Congression Salety Factor =	900D 492966	† / 1	17335 176925	+	2.45	+	40240	+	11094	-	170323				
Load on Surface Casing -	176925	x	60%	-	106154.B										
Surface Casing Compression Safety Factor =	244000	7 1	105155	-	2.30			_							
Ruby Federal #61					: 3/4/20									-	3 of 9

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:

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	1	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	585' – 630'	13.6	300	510	2% Extender 2% CaCl ₂ 0.125 lb/sx LCM if needed 0.2% Defoamer Excess =75% based on gauge hole volume	1.70
Tail	Class C	585' – 630'	785' – 830'	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:

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	Inter Ft I		Weight ppg	Sx	Vol Cuft	Additives	Yield ft³/sx
Lead	50:50 Poz/C	Surface	5200'	11.8	700	1820	10% Bentonite 5% Salt 0.2%-0.4% Fluid loss additive 0.125 lb/sx LCM if needed Excess = 220% or more if needed based on gauge hole volume	2.6
Tail	Class H	5200'	6915' – 6960'	16.4	400	428	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.

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5-1/2" Production Casing & Cementing Program - TXI/LW Cementing Option for Grayburg-San Andres:

ConocoPhillips Company respectfully requests the options to our cementing program. This option will only be implemented in the cementing operation of wells requesting for co-mingling after approval and authorization by all agencies have been obtained. The intention for the alternative option to the cementing program for the Production Casing is to:

- Accommodate the additional frac'ing and stimulation of the Grayburg-San Andres by placement of the Tail Slurry from the casing shoe to the top of the Grayburg-San Andres formation,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry		rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft³/sx
Lead	50:50 Poz/C	Surface	3000′	11.8	500	1300	10% Bentonite 8 lbs/sx Salt 0.2%-0.4% Fluid loss additive 0.125 lb/sx LCM if needed Excess = 200% or more if needed based on gauge hole volume	2.6
Tail	TXI/LW	3000'	6915′ –6960′	13.2	800	1120	0.5% Fluid loss additive 0.10% Retarder 0.2% Antifoam 0.125 lb/sx LCM if needed Excess = 150% or more if needed based on gauge hole volume	1.40

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

Our BOP equipment will be:

- o Rotating Head
- Annular BOP, 11" 3M
- o Blind Ram, 11" 3M
- o 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

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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.** A variance is respectfully requested to allow for the use of flexible hose. The variance request is included as a separate enclosure with attachments.

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	рН	Vol bbl
0 – Surface Casing Point	Fresh Water or Fresh Water Native Mud in Steel Pits	8.5 – 9.0	28 – 40	N.C.	N.C.	120 – 160
Surface Casing Point to TD	Brine (Saturated NaCl ₂) in Steel Pits	10	29	N.C.	10 – 11	500 – 1000
Conversion to Mud at TD	Brine Based Mud (NaCl ₂) in Steel Pits	10	33 – 40	5 – 10	10 – 11	0 – 750

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.

In the event that the well is flowing from a waterflow, then we would discharge excess drilling fluids from the steel mud pits through a fas-line into steel frac tanks at an offset location for containment. Depending on the rate of waterflow, excess fluids will be hauled to an approved disposal facility, or if in suitable condition, may be reused on the next well. No reserve pit will be built.

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. We do not plan to keep any weighting material at the wellsite. Also, we propose an option to not mud up leaving only brine in the hole if we have good hole stability.

6. Logging, Coring, and Testing Program:

- a. No drill stem tests will be done
- b. Remote gas monitoring 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)

7. 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.

Ruby Federal #61 (Date: 3/4/2014) Page 6 of 9

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



The estimated H₂S 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, Hydrogen Sulfide Operations. Also, ConocoPhillips will provide an H2S Contingency Plan (please see copy attached) and will keep this plan updated and posted at the wellsite during the drilling operation.

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 this well is as early as late 2014 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:

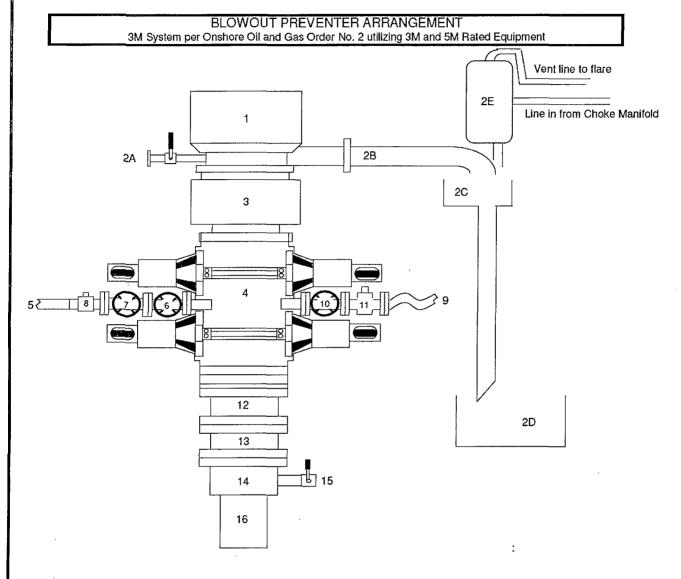
Proposed 4 March 2014 by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone (281) 206-5115 Cell (432) 209-7558

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Attachment # 1

16

Surface Casing



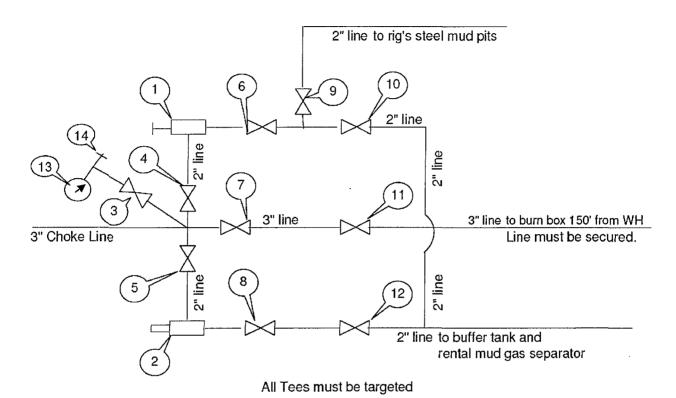
Item	Description
1	Rotating Head, 11"
2A	Fill up Line and Valve
2B	Flow Line (10")
2C	Shale Shakers and Solids Settling Tank
2D	Cuttings Bins for Zero Discharge
2E	Rental Mud Gas Separator with vent line to flare and return line to mud system
3	Annular BOP (11", 3M)
4	Double Ram (11", 3M, equipped with 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

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



Item Description

- Manual Adjustable Choke, 2-1/16", 3M 1
- 2 Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M
- Gate Valve, 2-1/16" 5M
- Gate Valve, 2-1/16" 5M 4
- 5 Gate Valve, 2-1/16" 5M
- Gate Valve, 2-1/16" 5M
- 7 Gate Valve, 3-1/8" 3M
- 8 Gate Valve, 2-1/16" 5M
- Gate Valve, 2-1/16" 5M Gate Valve, 2-1/16" 5M 10
- 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:

James Chen

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Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company

Date: 21-March-2013

Ruby Federal #61 (Date: 3/4/2014) Page 9 of 9

Request for Variance

ConocoPhillips Company

Lease Number: NM LC 029405B

Well: Ruby Federal #61

Location: Sec. 17, T17S, R32E

Date: 3/4/2014

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: Steven Herrin Drilling Engineer, ConocoPhillips Company

Phone: (281) 206-5115 Cell: (432) 209-7558









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).

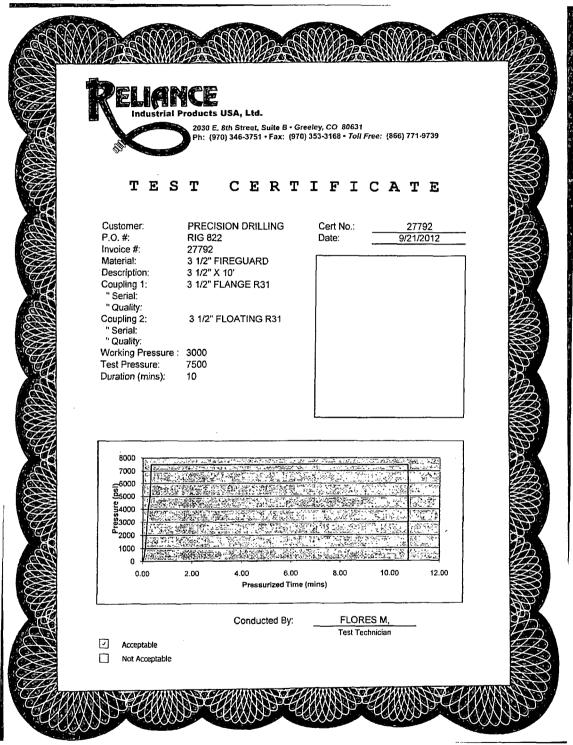
Non	n. ID	No	n OD	We	ight	Min Be	nd Radius	Max	WP
in.	mm.	in.	mm	lb/ft	kg/m	in.	mm.	psi	Mpa
3	76.2	5.11	129.79	14.5	21.46	48	1219.2	5000	34.47
3-1/2	88.9	5.79	147.06	20.14	29.80	54	1371.6	5000	34.47



Fittings	
RC4X5055	R35 - 3-
RC3X5055	R31 - 3-
RC4X5575	,

Flanges 1/8 5000# API Type 6B 1/8 3000# API Type 6B **Hammer Unions**

Other All Union Configurations LP Threaded Connectio Graylock Custom Ends



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

ConocoPhillips Company Well: Ruby Federal #61

Location: Sec. 17, T17S, R372E

Date: 3/4/2014

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 hauloff 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:

R-360 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 R-360 is NM-01-0006.

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, 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.

Steven Herrin
Drilling Engineer, ConocoPhillips Company
Phone: (281) 206-5115
Cell: (432) 209-7558

Cell. (432) 209-7556

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 wiln lubing frame FRONT: 3/16/12L slank 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

CASKETS: Extruded rubber seal with metal. retainers

WELDS: All welds continuous except sub structur e crossmembers

FINISH Coated inside and our with direct to metal, rust inhibiting acrylic enamel color coat. HYDR@TESTING: Full capacity static test DIMEN SIONS: 22-11 liong (21:8 inside). 99" wide (88" inside), see drawing for height OPTIONS: Steel grit blast and special paint-Amplicall, Heil and Dino pickup

ROOF: 3/16" PL roof panels with Jubing 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

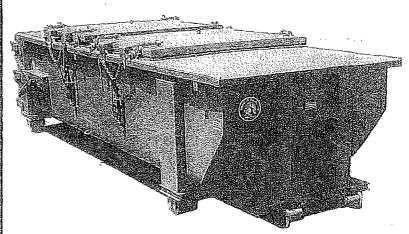
with 8" divider centered on

container

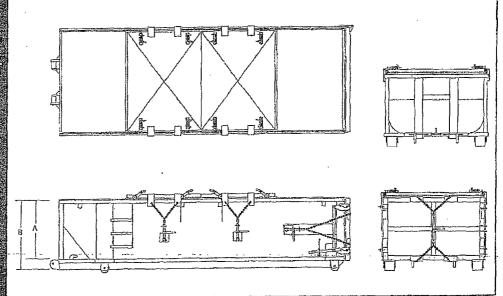
LATCH:(2) independent ratchet, binders with chains

GASKETS: Extruded rubber seal with metal retainers

Heavy Duty Split Metal Rolling Lid



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



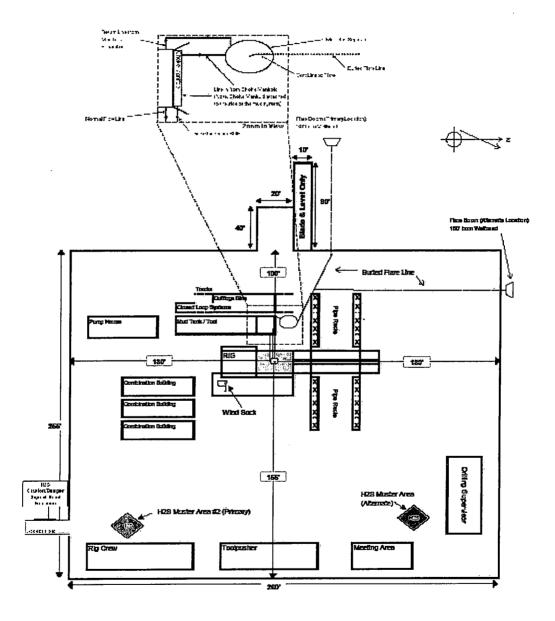
ConocoPhillips

Location Schematic and Fig Layout for Closed Loop System

(PRCTURE NOT TO SCALE)

Reviewed by: Sheven Hento Oxforg Engineer, ConomPhilips Company Oxfor updated James y 2014

NOTE: There are two muster areas (primary & successive) depending on the preveding wind direction. The counter area that is furthest upwindshouseated will be the designated area furthesting and assessing the situation. In the situation test a full executation is depend necessary, all personnel will easify the bonding on the main senses road. Otherwise, if the main senses road is blocked off, they will eatl on the securitary used or walk off road in the upwindshouseated direction.





H₂S Contingency Plan

H₂S Contingency Plan Holders:

Attached is an H₂S Contingency Plan for COPC Permian Drilling working in the West Texas and Southeastern New Mexico areas operated by ConocoPhillips Company.

If you have any questions regarding this plan, please call Tom Samarripa at ConocoPhillips Company, 432.368.1263.

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