DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT       MAR 19 2015       Lease Serial No. NMLC 058395         SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter angCENED abandoned well. Use Form 3160-3 (APD) for such proposals.       6. If Indian, Allottee or Tribe         N/A       SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         N/A       SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       N/A         SUBMIT SC.       (P10-4-4054)         3a. Address       9. API Well No. 30-025-40596         GOO N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281         Haljamar; Yeso We       1. Location of Well Foolage, Sec. 7. R. M. or Surger Description         11957 FSL & 8000 FEL; UL P, Sec. 22, TITS, R32E       I1. County or Parish, State         Lea County       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DAX         TYPE OF SUBMISSION       TYPE OF ACTION	Io. 1004-0137
INDRY NOTICES AND REPORTS ON WELLS         Do not use this form for proposals to drill or to re-enter ang CEIVET abandoned well. Use Form 3160-3 (APD) for such proposals.         6. If Indian, Allottee or Tribe abandoned well. Use Form 3160-3 (APD) for such proposals.         N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.         1. Type of Well       N/A         © 10 Well       Gas Well       Other         2. Name of Operator ConocoPhillips Co. (P10-4-4054)       Structure and No. SC Federal #9         3a. Address       3b. Phone No. (include area code)       10. Field and Pool or Explora         600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281       Maljamar; Yeso We         4. Location of Well Footage, Sec. T. R. M. or Survey Description 1195' FSL & 800' FEL; UL P, Sec. 22, T17S, R32E       I1. County or Parish, State Lea County         II. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DA'         TYPE OF SUBMISSION         TYPE OF ACTION         IN Notice of Intent       Acidize       Deepen       Production (Start/Resure)       I         Alter Casing       Fracture Treat       Reclamation       I       I         Subsequent Report       Casing Repair       New Construction       Recomplete       I         Gasing Re	October 31, 2014
Do not use this form for proposals to drill or to re-enter are CEIVED abandoned well. Use Form 3160-3 (APD) for such proposals.       N/A         SUBMIT IN TRIPLICATE – Other instructions on page 2.       7. If Unit of CA/Agreement, N/A         I. Type of Well       Gas Well       Other         2. Name of Operator ConocoPhillips Co. (P10-4-4054)       8. Well Name and No. SC Federal #9         3a. Address       9. API Well No. ConocoPhillips Co. (P10-4-4054)         3a. Address       3b. Phone No. (include area code)         600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281         4. Location of Well (Footage, Sec., T. R. M. or Survey Description)       11. County or Parish, State         1195' FSL & 800' FEL; UL P, Sec. 22, T17S, R32E       11. County or Parish, State         Lea County       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DA'         TYPE OF SUBMISSION       TYPE OF ACTION         I subsequent Report       Acidizz       Deepen       Production (Start/Resume)       I         Alter Casing       Fracture Treat       Reclamation       I         Subsequent Report       Casing Repair       New Construction       Recomplete       I         Gouver to Injection       Plug and Abandon       Temporarily Abandon	Name
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SUBMIT IN TRIPLICATE – Other instructions on page 2.         I. Type of Well       N/A         I. Type of Well       Image: Structure of Colspan="2">N/A         8. Well Name and No.         2. Name of Operator       9. API Well No.         2. Name of Operator       9. API Well No.         30-025-40596       30-025-40596         3a. Address       3b. Phone No. (include area code)         600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281         4. Location of Well (Foolage, Sec. T.R. M. or Survey Description)       11. County or Parish, State         1195' FSL & 800' FEL; UL P, Sec. 22, T17S, R32E       11. County or Parish, State         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DAY         TYPE OF SUBMISSION       TYPE OF ACTION         Image: Subsequent Report       Acidize       Deepen         Subsequent Report       Casing Repair       New Construction         Subsequent Report       Casing Repair       New Construction         Final Abandonment Notice       Convert to Injection       Plug and Abandon       Temporarily Abandon	Name and/or No
Image: Neurophysical system	
2. Name of Operator ConocoPhillips Co. (P10-4-4054)       9. API Well No. 30-025-40596         3a. Address       3b. Phone No. (include area code)       10. Field and Pool or Explora         600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281       Maljamar; Yeso We         4. Location of Well (Footage, Sec., T, R, M, or Survey Description) 1195' FSL & 800' FEL; UL P, Sec. 22, T17S, R32E       11. County or Parish, State Lea County         12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DAY         TYPE OF SUBMISSION       TYPE OF ACTION         X Notice of Intent       Acidize       Deepen       Production (Start/Resume)       I         Subsequent Report       Casing Repair       New Construction       Recomplete       I         Y Change Plans       Plug and Abandon       Temporarily Abandon         Final Abandonment Notice       Convert to Injection       Plug Back       Water Disposal	
3a. Address       3b. Phone No. (include area code)       10. Field and Pool or Explora         600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281       Maljamar; Yeso We         4. Location of Well (Footage, Sec., T., R., M. or Survey Description)       11. County or Parish, State       Lea County         1195 FSL & 800 FEL; UL P, Sec. 22, T17S, R32E       11. County or Parish, State       Lea County         TYPE OF SUBMISSION         TYPE OF SUBMISSION       TYPE OF ACTION         X Notice of Intent       Acidize       Deepen       Production (Start/Resume)       Intervention         Subsequent Report       Casing Repair       New Construction       Recomplete       Intervention         Y Change Plans       Plug and Abandon       Temporarily Abandon         Final Abandonment Notice       Convert to Injection       Plug Back       Water Disposal	/
600 N. Dairy Ashford Rd., Houston TX 77079       (281)206-5281       Maljamar; Yeso We         4. Location of Well (Footage, Sec., T., R., M., or Survey Description)       11. County or Parish, State         1195' FSL & 800' FEL; UL P, Sec. 22, T17S, R32E       11. County or Parish, State         Lea County       12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DAT         TYPE OF SUBMISSION       TYPE OF ACTION         X Notice of Intent       Acidize       Deepen         Alter Casing       Fracture Treat       Reclamation         Subsequent Report       Casing Repair       New Construction       Recomplete         X Change Plans       Plug and Abandon       Temporarily Abandon	tory Area
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Subsequent Report       Casing Repair       New Construction       Recomplete         Change Plans       Plug and Abandon       Temporarily Abandon         Final Abandonment Notice       Convert to Injection       Plug Back       Water Disposal	Well Integrity
Final Abandonment Notice	Other
<ul> <li>determined that the site is ready for final inspection.)</li> <li>ConocoPhillips Company, as most recent operator of record, respectfully requests approval to change to plan for this well. The following changes are necessary to drill this well as part of our ongoing Yeso development.</li> <li>Please find the attached documents: <ul> <li>Updated Operator Certification</li> <li>Updated Drilling Plan</li> <li>Variance from Onshore Order 2, III.A.2.b</li> <li>Updated H2S Contingency Plan</li> <li>Changes to the Surface Use Plan of Operations</li> </ul> </li> <li>This well is scheduled to be drilled December 2013.</li> </ul>	he approved elopment
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	
Susan B. Maunder     Title     Senior Regulatory Specialist	an a
signature Sugan B. Mounder Date 10/23/13	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved by MAR	1 7 2014
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable tile to those rights in the subject lease which would Office 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 agen- fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	cy of the United States any false,
(Instructions on page 2) MAR	0 4 90 10

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## **Operator Certification**

## SC Federal #9 API #30-025-40596

HOBBS OCD

MAR 1 9 2014

**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 Date: 10 23 13

## RECEIVED

# Request Approval to Change Drill Plan ConocoPhillips Company Maljamar; Yeso

HOBBS OCD

MAR 1 9 2014

SC Federal 9 Lea County, New Mexico

RECEIVED

## Request:

ConocoPhillips Company respectfully requests approval to revise the casing and cementing program, pressure control equipment, the proposed mud systems, diagram and schematic for BOP and choke manifold equipment, location schematic and rig layout, and updated H2S contingency plan. This request is made under the provision of Onshore Order No. 2 and No. 6.

### 1. Proposed casing program:

	Hole		Interval	0.5						H 01-	Calcu	Safety Fa	ctors pnocoPhillips
 Туре	(in)	From	Το	(inches)	(lb/ft)	Gr	Conn	(psi)	(psi)	Jt Str (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	880' - 905'		24#	J-55	STC	2950	1370	244	1.55	<b>3.40</b>	3.54
Option: Prod w/ Bond Coat	7-7/8	3000'	4000'	5-1/2	17#	L-80	LTC	7740	6290	338	NA	NA	NA
Prod	7-7/8	0	7045' – 7102'	5-1/2	17#	L-80	LTC	7740	6290	338	2.10	2.49	1.97

The casing will be suitable for H<sub>2</sub>S 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.

ConocoPhillips Company respectfully requests the option to run bond coated production casing with the two-stage cementing option for the intension to protect the casing from corrosion if needed.

### Casing Safety Factors - BLM Criteria:

Туре	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	905	24	2950	1370	244000	8.5	7.37	3.42	11.2	12.9
Production Casing	7102	17	7740	6290	338000	10	2.10	1.70	2.80	3.30

## Casing 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

Change to Drill Plan: SC Federal #9: .....July 2, 2013

Surface of the month of the second	85	65	5 35000		-	43298	6 -		-	-						
Durace Casing (8-5/8 24# J-55 STC)	905	24	1 2950	1370	244000	38100	0 8.5	1.5	5 3.4		4					
roduction Casing (5-1/2 1/# L-60 LTC)	[ /102]	1/	1 1140	6250	338000	39100	10[ 10	21	0 2.4	1.9	<i>1</i>					
The maximum internal (curst) bad on the Surface Casing occurs when t	ie surface cas	ing is tes	ted to 1500	çsi (as çei	r BLM Ons	shore Order	2 - Q. Require	ements).								
The maximum Internal (burst) bad on the Production Casing occurs durin	g the fracture a	stimutation	n where the	<i>त्राव्यक्र</i> ात्व	alowable	working pre	ssure									
(NAWP) is the pressure that would be concerbility's Corporate Enterie 1 Surface Casing Test Pressure =	1500	tors. csi		Predicts	led Pare P	essure at T	D (PPTC) =	8.5	5 ccc							
Surface Rated Working Pressure (BOPE) =	3000	psi		Predicted	Frac Gra	fient at Shor	= (CSFG) =	19.2	3 FES							
Field SW = Surface Casino Burst Safety Factor = API Burst Dation ( M	10)	ppg ed Surfe	e Pressure	meserin	NT Maxim	m Alewski	Surface Pre	esure il	MASPA							
Production Casing MAWP for the Fracture Stimulation = AP	Burst Rating /	Corporat	e Minimum B	lurst Desig	n Factor				,							
Surface Casing Burst Salety Factor																
Case #1. MPSP (MWhyd next section) =	905	x	0.052	x	10	=	471									
Case #2_MPSP (Field SW @ ButheadcsF3 + 200 psi) =	905	x	0.052	x	19.23	•	471	÷	200	=	634					
Case #J. MPSP (Kick Vol @) next section TD) = Case #4, MPSP (PPTD - GG) =	7102	x x	0.052	x x	8.55 8.55	-	619,7 710,2	-	400 2447	=	2138					
Case #3 & #4 Limited to MPSP (CSFG + 0.2 ppg) =	905	x	0.052	×(	19.23	+	0.2	)=	914							
MASP (MWhyd + Test Pressure) = Burgt Safaty Easter Max, MPSP or MASP) =	905 2950	×	0.052	<b>x</b>	8.5	÷	1500	=	1900							
roduction Casing Burst Safety Factor:	2330	,	1300	-	1											
Case #1. MPSP (MWhyd TD) =	7102	×	0.052	×	10	. =	3593.04	_	2407							
Case 44, MPSP (PP1D - GG) = Burst Safety Factor (Max, MPSP) =	7740	ĩ	3693	× =	0.55 2.10	-	710.2	-	2441							
MAWP for the Fracture Stimulation (Corporate Criteria) =	7740	1	1.15	=	6730											
Collapse - ConocoPhillips Required Load Cases																
The maximum collapse bad on the Surface Casing occurs when cementing The maximum collapse had on the Designation Section accurs when cementing	ig to surface, 1	/3 evacu	ration to the i	next casin	ng setting (	tepth, or dei	epest depth o	f expos	ure (full ev	acusticn).						
therefore, the external pressure profile for the evocuation cases should i	e equal to the (	pore pres	soure of the	horizona o	on the cut	side of the C	asing which	we 853	umed to be	PPTD.						
Surface Casing Collapse Safety Factor = API Collapse Ratin	g / Full Evacua	tion 'OR'	Cement Disp	incement of	during Cer	menting to S	urface	_								
Production Casing Collapse Safety Factor = API Collapse Rz Cement Disclacement Fluid (FW) =	10 g / Maximum 8,34 g	) Predicte 100	d Surface P	ressure 'O Top of Cen	DR' Cemen ment =	Cement to S	ent during Cei iurface	nenting	to Surface							
Surface Cement Lead =	13.6	pg	Prod	i Cement L	ead =	11.	Breg									
Surface Cement Tail = Troo of Surface Tail Coment =	14.8 p	ipg 1	Pro Ten of Pro	od Cement od Tail Cem	tTail = ment =	16,4 5200	4 FF9 ) n									
reperiod have the deliver -						020	<u>_</u>									
urface Casing Collapse Safety Factor:	005	~	0.053	-	9 55	-	402									
Cementing Diff Lift Pressure =	505	x 605	0.052 x 0	x 0.052	0.55 X	- 13.6	4uz )+(	300	x	0.052	х	14.8	) -	392	] =	265
Collapse Safety Factor =	1370	1	402	= 3	3.40		• •								•	
1/3 Evacuation Diff Pressure =	ĸ	7102	x 0	0.052	x	8.55	) - (	7102	1	3	x	0.052	x	8.34	11 =	2131
Cementing Diff Lift Pressure =	ű	1902	x 0	.052	x	11.8	) + (	5200	x	0.052	x	16.4	) -	3080	j =	2522
Collapse Safety Factor =	0000		0200	- 7	2.49											
Tensial Strength - ConocoPhillips Required Load Cases The maximum axial (tensien) load occurs if casing were to get stuck and p	ulled on 10 try (	logetitu	zozz	- 2												
Tensial Strength – ConocoPhillips Required Load Cases The maximum axial (tensico) bad accurs if casing were to get stuck and j Maximum Allowable Axial Load for Ppe Yield = API Ppo Maximum Allowable Axial Load for Joint = API Joint Stre Maximum Allowable Hook Load (Limited to 75% of Rig M Maximum Allowable Hook Load (Limited to 75% of Rig M Maximum Allowable Overpul Margin = Maximum Allowa Tensial Sofety Factor = AP Ppo Yield 'OR API Joint Str	ulled on io by i Yield Strength ngth Rating / Ci (ax Load) = May ble Hook Load - ength 'OR' Rig L 202000-	o get it u Rating / orporate ximum Al - Bouyan tax Load	2522 nstuck Corporate M Minimum Axis Iowable Axis Iowable Axis I Wi of the S I Rating / ( Ba	inimum Ax ial Design I al Load Sbing ouyant Wt	dal Design Factor	Factor • Minimum D	verpul Requi	red )								
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## 2. 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	Inter Ft	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /sx
Lead	Class C	Surface	560' – 605'	13.6	300	510	2% Extender 2% CaCl <sub>2</sub> 0.125 lb/sx LCM if needed 0.2% Defoamer Excess =75% based on gauge hole volume	1.70
Tail	Class C	560' – 605'	860' 905'	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 – Single Stage Cementing Option:

The intention for the cementing program for the Production Casing - Single Stage Cementing Option is to:

- Place the Tail Slurry from the casing shoe to above the top of the Paddock,
- Bring the Lead Slurry to surface.

#### Spacer: 20 bbls Fresh Water

	Slurry	Inter Ft I	∿als MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /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'	7045' – 7102'	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.

## 5-1/2" Production Casing Cementing Program – Two-Stage Cementing w/ Comingle Option:

ConocoPhillips Company respectfully requests the options to our cementing program. The intention for the cementing program for the Production Casing – Two-Stage Cementing Option is to:

- Provide a contingency plan for using a Stage Tool and Annulus Casing Packer(s) to isolate losses or water flow if either of these events occurs while drilling the well.
- Place the Stage 1 Cement from the casing shoe to the stage tool,
- Bring Stage 2 Cement from the stage tool to surface.

#### Spacer: 20 bbls Fresh Water

Stag	je 1 - Slurry	inte Ft	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /sx
Lead	50:50 Poz/H	3000'	7045' – 7102'	13.2	800	1120	<ul> <li>0.5% Fluid loss additive</li> <li>0.10% Retarder</li> <li>0.2% Antifoam</li> <li>0.125 lb/sx LCM if needed</li> <li>Excess = 150% or more if needed based on gauge hole volume</li> </ul>	1.40

Stag	je 2 - Slurry	Inte Ft	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /sx
Lead	50:50 Poz/C	Surface	Stage Tool ~ 3000'	11.8	500	1300	+ 10 % Extender + 5 % NaCl + 0.2 % Defoamer + 5 lb/sx LCM/Extender + 0:125 lb/sx Lost Circulation Control Agent + 0.5 % Fluid Loss Excess = 50 % or more if needed based on gauge hole volume	2.6

Displacement: Fresh Water

#### Proposal for Option to Adjust Production Casing Cement Volumes:

The production casing cement volumes for the proposed single stage and two-stage option presented above are estimates based on gauge 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.

#### 3. 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
- o 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 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 to BLM prior to site construction.

#### 4. Proposed Mud System:

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 NaCl₂) in Steel Pits	10	29	N.C.	10 – 11	1250 - 2500
Conversion to Mud at TD	Brine Based Mud (NaCl <sub>2</sub> ) in Steel Pits	10	34 – 45	5 – 10	10 11	0 - 1250

The mud systems that are proposed for use are as follows:  $\frac{1}{\sqrt{\frac{1}{2}}}$ 

#### 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.

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. Gas detecting equipment 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.

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.

#### 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 in 2013 after receiving approval of the APD.

# Attachments:

• Attachment # 1 ...... BOP and Choke Manifold Schematic – 3M System

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• Attachment # 2...... Diagram of Choke Manifold Equipment

# **Contact Information:**

Sundry Request proposed 16 October 2013 by: James Chen Drilling Engineer, ConocoPhillips Company Phone (832) 486-2184 Cell (832) 768-1647







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: USA LC 058395 Well: SC Federal #9 Location: Sec. 22, T17S, R32E Date: 10-16-13

#### 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: 26 September 2012

## Attachment # 1

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		Reli	ance E	limin	ator	Chok	e & Kil		
Th	is hose ca	ın be us	ed as a cho	ke hose w	hich conn	ects the l	BOP stack to	the bleed	l-off
ma	nifold or	a kill ho	se which co	onnects th	e.mud sta	nd pipe t	io the BOP ki	ll vaive.	
Th	e Reliance	e Elimina	ator Choke	& Kill hose	contains	a special	ly bonded co	mpound	ed
CO	ver that re	eplaces	rubber cove	ered Asbe	stos, Fibrea	glass and	other fire re	tardant	
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## Attachment # 2

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