۲					ATS-14-501	
1. Form 3160,-3 (March 2012)	UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	S OCCO INTERIOR NAGEMENT	Hobbes	FOR OMB N Expires O 5. Lease Serial No. NMLC 03167	No. 1004-0137 October 31, 2014	
LOCATION	APPLICATION FOR PERMIT TO	DRILL OR REENTER	•	6. If Indian, Allotee N/A	or Tribe Name	
la. Type of wor	k: X DRILL REEN	TER		7. If Unit or CA Agre Southeast Mo	eement, Name and No. Onument Unit NM71	1041
lb. Type of We	11: Oil Well Gas Well X Other Inje	ction X Single Zone Mul	tiple Zone	8. Lease Name and V SEMU	Well No. 243	3167
2. Name of Op	erator hilling Company 217817	>		9. API Well No. 4	2015	
3a. Address 60	0 N. Dairy Ashford Road,	3b. Phone No. (include area code) (281)206-5281	~D	10. Field and Pool, or I Skaggs: Gravbu	Exploratory KZ	, >
4, Location of A At surface T At proposed	Duston, TX 77079-1175 Well (Report location clearly and in accordance with a JL O, Sec. 19, T20S, R38E; 150' FSL prod. zone same as above	and 2341' FEL	2014	11. Sec., T. R. M. or B Sec. 19, T20S,	Ik. and Survey or Area R38E	
14. Distance in m Approxim	iles and direction from nearest town or post office* ately 13 miles south of Hobbs, NM		IVED	12. County or Parish Lea County	13. State NM	
15. Distance from location to ne property or le (Also to neare	n proposed* 150' arest ase line, ft. est drig. unit line, if any)	16. No. of acres in lease 641.68	17. Spacin 40	ng Unit dedicated to this w	well	.*
18. Distance from to nearest well applied for, or	proposed location* 700' l, drilling, completed, n this lease, ft.	19. Proposed Depth 4197' TVD/MD	20. BLM/ ES 00	BIA Bond No. on file 85		
21. Elevations (\$ 3532' GL	Show whether DF, KDB, RT, GL, etc.)	22 Approximate date work will s 06/15/2014	tart*	23. Estimated duration 5 days	n .	
······································	· · · · · · · · · · · · · · · · · · ·	24. Attachments				
3. A Surface Use SUPO must be	Plan (if the location is on National Forest System filed with the appropriate Forest Service Office).	1 Lands, the 5. Operator certi 6. Such other sit BLM.	fication e specific inf	òrmation and/or plans as	may be required by the	
Z3. Signature	usan B. Maunder	Susan B. Maunder			2/7/14	
, Senior Re	egulatory Specialist					
Approved by (Sign	"Steve Caffey	Name (Printed/Typed)			DaAUG - 4 2014	
Title	FIELD MANAGER	Office	CARLSBA	D. IELD OFFICE		
Application appro conduct operations Conditions of app	val does not warrant or certify that the applicant hol s thereon. roval, if any, are attached.	ds legal or equitable title to those rig	the sub	oject lease which would en	ntitle the applicant to	
Title 18 U.S.C. Sec States any false, fic	tion 1001 and Title 43 U.S.C. Section 1212, make it a titious or fraudulent statements or representations as	crime for any person knowingly and to any matter within its jurisdiction.	willfully to n	nake to any department.or	r agency of the United	
(Continued o	n page 2)	/		*(Instr	ructions on page 2)	
[©] Lea Coun	ty Controlled Water Basin		V >	Kaulie		
				offloylit	- AN	
	Approval Subject to Ge & Special Stipula	neral Requirements tions Attached	SEE COI	E ATTACHE	D FOR OF APPROVA	AL
		74000070200		AUG 0 7 201	14	

Operator Certification

HOBBS OCD

AUG 0 5 2014

CONOCOPHILLIPS COMPANY

RECEIVED

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.

Date: _ Ə

aundon

Susan B. Maunder Senior Regulatory Specialist

Drilling Plan ConocoPhillips Company <u>SEMU; Grayburg</u>

HOBBS OCD

SEMU #243

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	1355	Anhydrite
Salado (top of salt)	1456	Salt
Tansill (base of salt)	2530	Gas, Oil and Water
Yates	2656	Gas, Oil and Water
Seven Rivers	2899	Gas, Oil and Water
Queen	3474	Gas, Oil and Water
Penrose	3619	Gas, Oil and Water
Grayburg	3767	Gas, Oil and Water
San Andres	3997	Gas, Oil and Water
Deepest estimated perforation	3997	Deepest estimated perf. is above Top of San Andres
Total Depth (maximum)	4197	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 <u>5-1/2</u>" production casing <u>10' off bottom of TD</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.

See COA

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			
туре	(in)	From	То	(inches)	(lb/ft)		COIII	(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	1425 ' - 1425'	8-5/8	24#	J-55	STC	2950	1370	244	1.39	2.16	3.06	
Prod	7-7/8	0	4142' – 4187'	5-1/2	17#	L-80	LTC	7740	6290	338	3.55	5.01	2.72	

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	1425	24	2950	1370	244000	8.5	4.68	2.18	7.1	8.2
Production Casing	4187	17	7740	6290	338000	10	3.55	2.89	4.75	5.60

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	
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	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

Surface Casing (8-5/8" 24# 1.55 STC)	1425	6	5 35000)	-	4329	56 - n or	-	-	-	06				
Production Casing (5-1/2" 17# L-80 LTC)	4187	1	4 2950 7 7740	629	0 244000 0 338000	3970		3.5	5 5.0	16 <u>J</u> .)1 <u>2</u> .	72				
Burst - ConocoDbillios Deguired Load Cases															
The maximum internal (burst) load on the Surface Casing occurs when the	surface cas	ing is te:	ated to 1500) psi (aa	per BLM On:	shore Order	2 - El Require	ments).							
The maximum internal (burst) load on the Production Casing occurs during (MAMR) is the pressure that would fit ConneceRhillion Cornerate Ordering to	the fracture :	stimulatio Hora	n where th	e maxim	im allowable	working pr	essure								
Surface Casing Test Pressure and Wood in Conduct hings comparing charge and	1500	psi		Prec	licted Pore P	ressure at 1	'D (PPTD) =	8.55	5 000						
Surface Rated Working Pressure (BOPE) =	3000	psi		Predic	ted Frac Gra	dient at Sho	e (CSFG) =	19.23	3 669						
Surface Casing Burst Safety Factor = API Burst Rating / Map	cimum Predict	PP9 ed Surla	ce Pressur	e (NPSP	'OR' Maxim	ım Allowabi	e Surface Pre	asure (l	lasp)						
Production Casing MANYP for the Fracture Summittion = APL	iurst Raing /	Corpora	ie Harmini	Harst De	sign Factor										
Case #1. MPSP (MWhyd next section) =	1425	x	0.052	x	10	=	741								
Case #2. MPSP (Field SW @ Bullhead _{CSFB} + 200 psi) =	1425	x	0.052	x	19.23	-	741	+	200	=	884				
Case #3. MPSP (Rick vol @ next section TD) = Case #4. MPSP (PPTD - GG) =	4187	x	0.052	x	8.55 8.55	:	276.2	-	630 1443	=	955				
Case #3 & #4 Limited to MPSP (CSFG + 0.2 ppg) =	1425	x	0.052	×(19.23	+	0.2) =	1440						
MASP (MWhyd + Test Pressure) ≕ Burst Safety Fartry (Max, MPSP or MASP) =	1425	×	0.052	X =	8.5	+	1500	=	2130						
Production Casing Burst Sofety Factor:	2004	•	2130		1.55										
Case #1, MPSP (MWhyd TD) =	4187	x	0.052	×	10	2	2177.24	-	4 4 4 4						
Burst Safety Factor (Max. MPSP) =	7740	î	2177	× =	0.05 3,55	-	410,/	-	1443						
MAWP for the Fracture Stimulation (Corporate Criteria) =	7740	1	1.15] =	6730										
Collarso CouccePhilling Required Load Cores															
The maximum collapse load on the Surface Casing occurs when cementing	to surface, f	t/3 evac	uation to the	e next ca	sing setting	depth, or de	epest depth a	f exposi	ure (full ev	racuation).					
The maximum collapse load on the Production Casing occurs when cement	ing to surface	t, or 1/3	evacuation	to the de	epesi depih	of exposur	; and	-							
Surface Casing Collapse Safety Factor = API Collapse Rating	/ Fu§ Evacua	core cre tion 'OR'	Cement Dis	e norizor iplaceme	nt during Ce	menting to S	asing waich ' urface	we assu	imed to be	PPID.					
Production Casing Collapse Safety Factor = API Collapse Rat	ng i Naximun	n Predicto	ed Surface	Pressure	OR Camen	t Displacem	ent during Cen	nenting t	b Surface						
Cement Dispiscement Fluid (FW) = Surface Cement Lead =	8.34	299 200	Pro	Tap of (ad Cemer	= themes	Cement to 1	Surface								
Surface Cement Tail =	14.8	P P 9	P	rod Cem	ent Tall =	1	4 ppg								
Tap of Surface Teil Coment =	350	n	Top of P	red Tail (Cement =	300	0 n								
Surface Casing Collapse Safety Factor:															
Full Evacuation Diff Pressure =	1425	X 1075	0.052	X 0.052	8.55	= 13.6	634	350		0.050		14.9	,	C19 1	- 412
Collapse Safety Factor =	1370	1	634.	=	2.16	10.0	1.1	334	Ŷ	0.032	Ŷ	14.0	1.	010 1	- 412
Production Casing Collapse Safety Factor:	u	4197		0.060		0.55	、 <i>,</i>	4 107	,			0.050		0.24.33	- 4360
Cementing Diff Lift Pressure =	K K	1187	x	0.052	x	0.55) • () + (3000	x	3 0,052	x	0.052	x]-	6.34)j 1816 l	= 1256 = 1078
Collapse Safety Factor =	6290	1	1256	=	5.01		, ,						,		
The maximum axial (lension) load occurs if casino were to get sturk and re-															
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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 350' above the casing shoe,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry	Inter Ft I	vals MD	Weight Sx V ppg C		Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	1030' – 1075'	13.6	450	765	+ 2% Extender + 2% CaCl ₂ + 0.125 lb/sx Lost Circulation Control Agent + 0.2% Defoamer	1.70
							Excess =200% based on gauge hole volume	
Tail	Class C	1030' – 1075'	1380' – 1425'	14.8	300	402	1% CaCl2 Excess = 100% based on gauge hole volume	1.34

Displacement: Fresh Water.

See COA

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 Grayburg,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry	. Inter Ft I	ntervals Weight Sx Ft MD ppg		Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23
Tail	Poz/C Gas Tight Slurry	3000'	4142' – 4187'	14.0	320	4 <u>3</u> 8	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

5-1/2" Production Casing Cementing Program – Two-Stage Cementing Option (Shallow Flow):

ConocoPhillips Company respectfully requests an additional option 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 shallow saltwater or gas flow if either of these events occurs while drilling the well.
- Place the Stage 1 Cement from the casing shoe to surface.
- Proceed with Stage 2 Cement only if cement returns are contaminated or flow was observed after pumping 1st stage.

Spacer: 20 bbls Fresh Water

Stage	1 - Slurry		Intervals Ft MD	Weight ppg	Weight Sx Vol ppg Cuft		Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23
Tail	Poz/C Gas Tight Slurry	3000'	4142' – 4187'	14.0	320	438	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

1st stage displacement: FW followed by Weighted Spacer

Spacer: Remaining Weighted Spacer in cementing lines from the 1st stage displacement

Sta	age 2 - Slurry Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx	
Tail	Class C	Surface	Stage Tool ~1450'	14.8	300	402	1% CaCl2 Excess = 100% based on gauge hole volume	1.34

2nd stage displacement: Fresh Water

<u>5-1/2" Production Casing Cementing Program – Two-Stage Cementing Option (Lower Zone Losses or Waterflow):</u>

ConocoPhillips Company respectfully requests an additional option 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 waterflow 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 See COA

Stag	Stage 1 – Slurry		vals 1D	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Poz/C Gas Tight Slurry	Stage Tool ~2900'	4142' – 4187'	14.0	320	438	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.37

1st stage displacement: FW followed by Brine

Spacer: 20 bbls Fresh Water

Stag	e 2 - Slurry	Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	Stage Tool ~2900'	11.5	400	1292	Class C 94 lb/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 lb/sx Cello Flake 3 lb/sx LCM-1	3.23

Displacement: Fresh Water

See COA

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.

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

See COA

5. 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.	150 – 300
Surface Casing Point to TD	Brine (Saturated NaCl ₂) in Steel Pits	10	29	N.C.	10 – 11	300 - 1000
Conversion to Mud at TD	Brine Based Mud (NaCl ₂) in Steel Pits	, 10	33 – 40	5 – 10	10 – 11	0 – 1000

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

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 1700' MD: Spectral Gamma Ray, PE, Resistivity (laterologs), Bulk Density, and Sonic
 - Total Depth to surface Casing Shoe: Caliper
 - Total Depth to surface, Total Gamma Ray and Neutron
 - Total Depth to 2350' MD ; Mud Log (optional)
 - Total Depth to 2350' MD ; Dielectric Scanner (optional)
 - Formation pressure data (XPT) on electric line if needed (optional)
 - Rotary Sidewall Cores on electric line if needed (optional)
 - FMI (Formation MicroImager) if needed (optional)
 - UBI (Ultrasonic Borehole Imager) if needed (optional)
- e. Cement Bond Log (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.



- The bottom hole pressure is expected to be 7.8 ppg gradient.
- The expected Bottom Hole Temperature is 100 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
Seven Rivers	6	50 - 100 MCFD	0	0
Grayburg / San Andres	18360	20 - 50 MCFD	95	43

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 these wells is mid- 2014 after receiving approval of the APD.

Attachments:

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

Contact Information:

Proposed 5 February 2014 by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone: (281) 206-5115 Cell: (432) 209-7558 SEMU #243

(Date: 2/5/2014)



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SEMU #243

Attachment # 3



- Item Description
 - 1 Manual Adjustable Choke, 2-1/16", 3M
 - 2 Remote Controlled Hydraulically Operated 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
 - 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 Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company Date: 21-March-2013

Request for Variance

ConocoPhillips Company

Lease Number: LC 031670A Well: SEMU #243 Location: Sec. 19, T20S, R38E Date: 2/5/2014

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 Date: 20 January 2014

Attachment # 1



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 Weig		ght Min B		nd Radiu	is Max'	· Max WP	
in. 3 3-1/2	mm. 76.2 88.9	iņ. 5.11 5.79	mm 129.79 147.06	16/ft 14.5 20.14	kg/m 21.46 29.80	in. 48 54	mm. 1219. 1371.	psi 2 5000 6 5000	Mpa 34.4 34.4	
									• .	
Fittings RC4X5055 RC3X5055		R35 - 3-' R31 - 3-'	Flanges 1/8 5000# AF	임 Type 6B 임 Type 6B	Han All Un	nmer Un ion Configu	ions rations	Other LP Threaded Co Grayloci	nnectio	

Attachment # 2



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

ConocoPhillips Company Well: SEMU #243 Location: Sec. 19, T20S, R38E Date: 2/5/2014

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 needed 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

SPECIFICATIONS

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

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

DOOR: 3/16" PL with tubing trame FRONT: 3/16" PL with tubing trame PICK UP: Standard cable with 2" x 6" x 1/4" rails, guisset at each crossmember WHEELS: 10 DIA x 9 long with rease fittings. DOOR LATCH: Sindependent ratchet binders with chains, vertical second latch GASKE TS: Extruded rubber seal with metal retainers

WELDS: All welds continuous except sub-structurie crossmembers FINISH : Coated Inside and out with direct to metal, rust inhibiting acrylic enamel color coat

HMDROITESTINGR Full capacity staticitest DIMENSIONS, 22-11" long (21-8" inside). 99" wide (88" inside), see drawing for height 99 Wide (88 Inside); see drawing for neight OPTIONS: Steel grit blast and special paint, Amplino II, Hell and Dino pickup ROOF: 3/16" PL roof panels with tubing and channe I support frame LIDS: (2) 68" x 90" metal rolling lids spring

loaded, self raising

ROLLERS: 4 V-groove rollers with defrin bearings and grease titlings OPENING: (2) 60" x 82" openings

with 8¹¹ divider centered on container

LATCH:(2) independent ratchet binders with chains penilo

CASKEISMEXINGEGINIÖDER seal with metal relainers

Heavy Duty Split Metal Rolling Lid



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



31