				14-133
	OCD Honba		Rev	ised 11/26
Form 3160-3 (March 2012) DEPARTMENT OF TH BUREAU OF LAND M APPLICATION FOR PERMIT	TES LE INTERIOR LANAGEMENT FO DRILL OR REENTER	Esta te	FORM AP OMB No. 1 Expires Octol Lease Serial No. 031621B If Indian, Allotee or	PROVED 004-0137 ber 31, 2014 Tribe Name
la. Type of work: I DRILL	INTER	7 I	f Unit or CA Agreem	ent, Name and No.
lb. Type of Well: 🔽 Oil Well 🗌 Gas Well 🗍 Other	Single Zone 🗸 Mul	tiple Zone Britt	Lease Name and Wel B 53	1 No. (313
2. Name of Operator ConocoPhillips Company (>17	817) HO	9.4	API Well No. 0-025- 4	-3155
^{3a.} Address 600 N. Dairy Ashford Rd.; P10-3096 Houston, TX 77079-1175	3b. Phone No. (include area code) 281-206-5281 MAR	2 8 2010 Bline	ield and Pool, or Exp.	TERLY (6
 Location of Well (Report location clearly and in accordance with At surface 330' FNL & 2340' FWL; UL C, Sec. 15, T2 At proposed prod. zone 660' FNL & 1980' FWL; UL C, S 	th any State requirements.*) REC REC. 15, T20S, R37E		ec., T. R. M. or Bik.a 15, T20S, R37E	nd Survey or Area
14. Distance in miles and direction from nearest town or post office* Approximately 5 miles NW of Monument, NM		Lea	County or Parish	NM
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of acres in lease 1757	17. Spacing Unit 40.00	dedicated to this well	
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 7170' TVD/7193' MD	20. BLM/BIA Bo ES0085	nd No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3566' GL	22. Approximate date work will st 03/01/2015	art* 23. 1 7 da	Estimated duration ays	<u></u>
	24. Attachments			
 The following, completed in accordance with the requirements of On Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office). 	 tshore Oil and Gas Order No.1, must be Bond to cover Item 20 above) Operator certif Such other site BLM. 	attached to this form the operations unle ication e specific informatio	: ss covered by an exis n and/or plans as may	ting bond on file (s
25. Signature Jugan B. Maunder	Name (Printed/Typed) Susan B. Maunder		Date	11/26/14
Title Šenior Regulatory Specialist	· .		4	
Approved by (Signature) Steve Caffey	Name (Printed/Typed)		Da	MAR 2 3 20
Title FIELD MANAGER	Office C.	ARLSBAD FIEL	DOFFICE	
Application approval does not warrant or certify that the applicant h conduct operations thereon. Conditions of approval, if any, are attached.	olds legal or equitable title to those rig	hts in the subject lease APPROV	se which would entitle AL FOR TW	e the applicant to VEARS
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations	a crime for any person knowingly and as to any matter within its jurisdiction.	willfully to make to a	any department or ag	ency of the United
(Continued on page 2)	V	n 1	*(Instruct	tions on page 2

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Drilling Plan ConocoPhillips Company Britt B; Blinebry –Tubb - Drinkard

Britt B#53

Lea County, New Mexico

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 Depth ET MD	Top Depths ET TVD	Contents
Quaternary	Surface	Surface	Fresh Water
Rustler	1307	1307	Anhydrite
Salado (top of salt)	1398	1398	Salt
Tansill (base of salt)	2549	2548	Gas, Oil and Water
Yates	2695	2693	Gas, Oil and Water
Seven Rivers	2954	2951	Gas, Oil and Water
Queen	3492	3486	Gas, Oil and Water
Penrose	3603	3597	Gas, Oil and Water
Grayburg	3773	3766	Gas, Oil and Water
San Andres	4019	4011	Gas, Oil and Water
Glorieta	5222	5208	Gas, Oil and Water
Paddock	5355	5341	Gas, Oil and Water
Blinebry	5678	5662	Gas, Oil and Water
Tubb	6391	6372	Gas, Oil and Water
Drinkard	6699	6678	Gas, Oil and Water
Abo	6992	6970	Gas, Oil and Water
Deepest estimated perforation	6992	- 6970	Deepest estimated perf. is Top of Abo
Total Depth (maximum)	7193	7170	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.

2. Proposed casing program:

	Tune	Hole Size	N	Interval /ID RKB (ft)	OD	Wt	Gr	Conn	MIY	Col	Jt Str	Calcu	Safety Fa lated per Co Corporate (ctors onocoPhillips Criteria
	Туре	(in)	From	То	(inches)	(lb/ft)	Gi	Conn	(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
9	A Surf	12-1/4	0	1337 1367'	8-5/8	24#	J-55	STC	2950	1370	244	1.38	2.15	3.05
	Prod	7-7/8	o	7153' – 7183'	5-1/2	17#	L-80	LTC	7740	6290	338	3.47	4.89	[´] 2.68

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	₩t	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	Tensile-Dry	Tens-Bouy
Surface Casing	1337	24	2950	1370	244000	8.5	4.99	2.32	7.6	8.7
Production Casing	7183	17	7740	6290	338000	10	2.07	1.68	2.77	3.27

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

		in the second second second	
	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

														~	
Туре	Depth	Wt	MIY	Col	Jt Str	Pipe Yi	eld MW	Burs	t Col.	Ten					
Conductor Surface Casing (8-5/8" 24# 1-55 STC)	133	5	65 3500	0 -	-	4329	- 166 -	5 1/	1 -	30 3	12				
Production Casing (5-1/2" 17# L-80 LTC)	718	3	17 774	0 62	290 338000	3970		0 20	7 2	48 1	95				
Burst - Connoc Phillins Required Load Cases															
The maximum internal (burst) load on the Surface Casing occurs when th	ie surface ca	sing is t	tested to 150	l0 psi (a:	s per BLM Ons	hore Orde	r 2 - III. Requir	ements)							
The maximum internal (burst) load on the Production Casing occurs during (MAWP) is the pressure that would fit ConnorPhillos Cornorate Criteria (the fracture Minimum Fracture	stimula actors	tion where ti	he maxin	num allow able	working p	ressure	·							
Surface Casing Test Ressure =	1500	Dipsi Dipsi		Pre	edicted Pore P	essure at	TD (PPTD) =	8.5	5 ppg						
Field SW =	10	D ppg		itea	cico nac Gia	nen ar on	18 (Coroj -	1.13.2	olbba						
Surface Casing Burst Safety Factor = AFI Burst Rating / Ma Production Casing MAWP for the Fracture Stimulation = AFI	iximum Predic Burst Rating	ted Sur / Corpo	face Pressu rate Minimum	re (MPSI Burst D	P) 'OR' Maximu Design Factor	m Allow at	le Surface Pr	essure (MASP)						
Surface Casing Burst Safety Factor:				<i>'</i> .			١								
Case #1. MPSP (MWhyd next section) =	1337	×	0.052	×	10	=	695				•			•	
Case #3. MPSP (Kick Vol @ next section TD) =	7183	. x. 3 x	0.052	. X	19.23	2	595 584 6	<u>+</u>	200	=	842 2018		,		
Case #4. MPSP (PPTD - GG) =	7183	i x	0.052	×	8,55	7 1	718.3	e	2475		7217				•
Case #3 & #4 Limited to MPSP (CSFG + 0.2 ppg) ≃ MASP (MWbvd + Test Pressure) =	1337	x	0.052	. X.	(19.23	·+ +	0.2)≐ 	1351						
Burst Safety Factor (Max. MPSP or MASP) =	2950	\hat{j}	2091	ŝ	1.41	•	1000	-	2031		· ·				
Production Casing Burst Safety Factor:	7400		0.050	*	14										
Case #1. MPSP (MWnyd TD) = Case #4. MPSP (PPTD - GG) =	7183	X	0.052	X.	10	=	3735.16	-	2475	:					
Burst Safety Factor (Max. MPSP) =	7740	1	3735	=	2.07				2.00						
MAWP for the Fracture Stimulation (Corporate Criteria) \approx	7740	r į	1.15	.=	6730									•	
Collapse – ConocoPhillips Required Load Cases					• .										
The maximum collapse load on the Surface Casing occurs when cementin	g to surface,	1/3 eva	icuation to th	e next c	asing setting c	epth, or d	eepest depth (of expos	ure (full e	vacuation)					
The maximum collapse load on the Production Casing occurs when cemen therefore, the external pressure profile for the evacuation cases should b	ting to surface e equal to the	ce, or 1/ a nore n	3 evacuation ressure of th	i to the d	leepest depth	of exposu de of the	e; and casing which	Wadee	umed to b	. com					
Surface Casing Collapse Safety Factor = API Collapse Ratin	g / Full Evacu	ation 'O	R' Cement Di	spłacem	ent during Cer	nenting to a	Surface			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Production Casing Collapse Safety Factor = AR Collapse Rai	ting / Maximu	in Fredic Lang	ted Surface	Pressur	re OR Cement	Displacen	ent during Ce	menting	to Surface	P					
Surface Comput Lead =	13.6	PPg	Pr	od Cerne	ent Lead = [11	Surface					•	•		
Surface Cerrent Tail =	14.8	ppg	F	rod Cen	rent Tal =	16	4 ppg								
) op of dynigue (an centrul.	L00	hr.	Top of F		Cement = L	. 520	<u>vol</u> u	•							
Surface Casing Collapse Safety Factor:	1997	~	0 dea			_									
Cementing Diff Lift Pressure =	[(1037	U.U52	0.052	8.00 X	13.6	594) + (300	X.	0.052	×	14.8.	۱-	580 1	384
Collapse Safety Factor =	1370	. T	594	ŧ	2.30								,	(1 -	
Production Casing Collapse Safety Factor: 1/3 Evacuation Diff Pressure =	, ti	7163	. 'x	0 052	· . · .	8.55	1.1	7183	,		~	0.052	J	ด้องบ่า	
Cementing Diff Lift Pressure ≐	IC.	1983	x	0.052	, x	11.8);+.(5200	×	0.052	x	16.4	<u>,</u>	3115]	- 2155
Collapse Safety Factor =	6290	ļ	2536	=	2.48					· · ·					
	•									•					
Tensial Strength - ConocoPhillips Required Load Cases	ulled on to to	to pet il	unstuck									• •			÷
Maximum Allow able Axial Load for Fipe Yield = AFI Fipe	Yleid Strengt	th Rating	/ Corporate	Minkmun	n Axial Design	Factor									
Maximum Allow able Axial Load for Joint = API Joint Stren Maximum Allow able Hook Load (Limited to 75% of Din M	igh Rating / (Corpora	le Minimum A	xial Des	Ign Factor		,								
Maximum Allow able Overpull Margin = Maximum Allow ab	le Hook Load	i - Bouya	ant Wt of the	String											
Tensial Safety Factor = API Pipe Yield 'OR' API Joint Stree	ngth 'OR Rig	Max Los	ad Rating / (Bouyant	Wt of String +	Minimum	Overpull Requ	red)							
Ng Max Load (slub,obu ips) x 73% = Minimum Overpuli Required =	50000	lbs			-										
Surface Casing Tensial Strength Safety Factor:															
Air Wt ≕ Bouvant Wt ≕	32088 32088	x	0,870	≓.	27924										
Max. Allowable Axial Load (Pipe Yield) =	381000	Ľ	1.40	=	272143								2		
Max. Allowable Axial Load (Joint) = Max. Allowable Hook Load (Limited to 75% of Rig Max Load) =	244000	1	1.40	=	174286										
Max. Allowable Overpull Margin =	174286	- (32088	x	0.870) =	146362							•	
Tensial Safety Factor =	244000	/ (27924	+	50000) =	3.13								
Air Wt =	122111						•								
Bouyant Wt =	122111	x	0.847	.≃.	103468										
Max. Allowable Axial Load (Pipe Yield) = Max. Allowable Axial Load (Joint) =	397000	1	1.40	=	283571										
Max: Allowable Hook Load (Limited to 75% of Rig Max Load) =	225000			•			÷ .								
Max. Allowable Overpull Margin = Tensial Safety Factor =	225000 300000	- (122111 103468	× +	0.847 50000);=) =	121532								
			1999 - 977				1.00								
Compression Strength - ConocoPhillips Required Load Cr	ses														
The maximum axial (compression) load for the well is where the surface ca	sing is landed	d on the	conductor	·											
with a support of a plate of landing ring. The surface casing is also calculat but not limited. Any other axial loads such as a snubbing unit or other would	led to bear 60 I need to be a	added to	e load the load												
Compression Safety Factor = API Axial Joint Strength Rating 'OR API Axial P	pe Yield Rati	ing / Max	kimum Fredic	ted Load	đ										
vveineao Loao = [3000	55													
Conductor & Surface Compression Safety Factor Surf Casino Wt (Bouvant) =	(32088	x	0.870) =	27924	ι								
Prod Casing Wt (Bouyant) =	(1	122111		0.847) =	103468									
Tubing WL (Air Wi) =	7183	Č.	6.5	=	46690	•	0 7954	٦	2 4 4 4	A7 -	44440				
Load on Conductor =	3000	÷	27924	+	103468	* +^	46689.5	÷.	2.441	-2 =	192531				
Conductor Compression Safety Factor =	432966	ŀ	192531		2.25										
Load on Surface Casing = Surface Casino Compression Safety Factor =	192531 244000	x 1	60% 115518	N N	115518 2 11										
		-		·	- tudi - 1. i										
3 #53		(Dá	te: 11	/26/2	2014)									Pa	iqe 3 o

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	rvals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	1037' 1067'	13.6	450	765	+ 2% Extender + 2% CaCl₂ + 0.125 lb/sx Lost Circulation Control Agent + 0.2% Defoamer Excess ≂200% based on cauge hole volume	1.70
Tail	Class C	1037' – 1067'	1337' – 1367'	14.8	300	402	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 Grayburg,
- Bring the Lead Slurry to surface.

Spacer: 20 bbls Fresh Water

	Slurry		vals MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	500	1300	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	2.6
Tail	Poz/C Gas Tight Slurry	3000'	7153' – 7183'	14.0	800	1120	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.40

Displacement: Fresh Water with approximately 250 ppm gluteraldehyde biocide.

(Date: 11/26/2014)

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

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 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	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	3000'	11.5	500	1300	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	2.6
Tail	Poz/C Gas Tight Slurry	3000'	7153' – 7183'	14.0	800	1120	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	1.40

1st stage displacement: FW followed by Weighted Spacer

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

Sta	ge 2 - Slurry	Intervals Ft M	D	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	Class C	Surface	Stage Tool ~1450'	11.5	250	620	1% CaCl2 Excess = 100% based on gauge hole volume	2.6

2nd stage displacement: Fresh Water

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

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 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

Sta	age 1 – Slurry	Inter Ft N	vals /ID	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Tail	Poz/C Gas Tight Slurry	Stage Tool ~2900'	7153' – 7183'	14.0	800	1120	(35:65) Poz:C 33 lb/sx 1% Sodium Metasilicate (dry) 1.5% Fluid Loss Control,	2.6

1st stage displacement: FW followed by Brine

Stag	e 2 - Slurry	Inter Ft I	vals VID	Weight ppg	Sx	Vol Cuft	Additives	Yield ft ³ /sx
Lead	C Gas Tight Slurry	Surface	Stage Tool ~2900'	11.5	500	1300	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	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.

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, 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.

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.	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 – 1 <u>0</u>	10 – 11	0 - 1000

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 this well is in March 2015 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 26 November 2014 by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone (281) 206-5115 Cell (432) 209-7558 Britt B #53

(Date: 11/26/2014)

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16 Surface Casing

Submitted by: Steven Herrin, Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 03-Jan-2014

Britt B #53

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Attachment # 3



ltem Description

- 1 Manual Adjustable Choke, 2-1/16", 3M
- 2 Remote Controlled Hydraulically Operated Adjustable Choke, 2-1/16", 3M
- Gate Valve, 2-1/16" 5M 3
- 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.

Submitted by: Steven Herrin Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company Date: 3-January-2014

Britt B #53

(Date: 11/26/2014)

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