· · ·	30	D Hobk	25	I	4-13/	Re	vised 11/26/14
Fom 3160-3 (March 2012)	UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN APPLICATION FOR PERMIT TO	INTERIOR AGEMENT DRILL OI	HOBBS C OCT 0 1 R REENTER	2015	FORN OMB Expires 5. Lease Serial No. LC 031621B 6. If Indian, Allote N/A	M APPRO No. 1004- October 3 e or Tril	VED 0137 1, 2014
la. Type of work:		er Sp	lif Est	ate	7 If Unit or CA Ag N/A	reement,	Name and No.
Ib. Type of Well:	Oil Weil Gas Well Other	Si	ngle Zone 🔽 Multip	ple Zone	8. Lease Name and Britt B	Well No 54	31365
2. Name of Operato	or ConocoPhillips Company 2172	817>			9. API Well No.	42	834
3a. Address 600 N Hous	J. Dairy Ashford Rd.; P10-3096 ton, TX 77079-1175	3b. Phone No 281-206-5	). (include area code) 281		10. Field and Pool, of WEIR; ALINE	r Exnlora	YNONUMENT, THER
4. Location of Well	(Report location clearly and in accordance with an	y State requiren	nents.*)		11. Sec., T. R. M. or Sec. 10, T20S, B2	Bik. and S	Survey or Area
At proposed proc	1. zone 660' FSL & 1980' FEL; UL O, Sec.	10, T20S, F	137E (O)		000.10,1203,10		
14. Distance in miles Approximately 5	and direction from nearest town or post office* miles NW of Monument, NM				12. County or Parish Lea County		13. State NM
<ol> <li>Distance from pro location to nearest property or lease l (Also to nearest d)</li> </ol>	pposed* 445' line, ft. rig. unit line, if any)	16. No. of a 1757	acres in lease	17. Spaciu 40.00	ng Unit dedicated to this	well	
<ol> <li>Distance from pro to nearest well, dri applied for, on this</li> </ol>	posed location* ~1000' illing, completed, s lease, ft.	19. Propose 7186' TVE	d Depth D/7193' MD	20. BLM/ ES0085	BIA Bond No. on file		
21. Elevations (Show 3578' GL	v whether DF, KDB, RT, GL, etc.)	22. Approxi 03/01/201	mate date work will star 5	rt*	23. Estimated duration 7 days	on	
<u>.</u>		24. Atta	chments	<del></del>			· ·
<ol> <li>Well plat certified 1</li> <li>A Drilling Plan.</li> <li>A Surface Use Pla SUPO must be file</li> </ol>	ted in accordance with the requirements of Onshor by a registered surveyor. In (if the location is on National Forest System is d with the appropriate Forest Service Office).	e Off and Gas Lands, the	<ol> <li>4. Bond to cover th Item 20 above).</li> <li>5. Operator certific</li> <li>6. Such other site : BLM.</li> </ol>	tached to the ne operation ation specific infe	us torm: ons unless covered by au ormation and/or plans a	o existing s may be	s bond on file (see
25. Signature	san B. Maunder	Name Susa	<i>(Printed/Typed)</i> n B. Maunder	<sup>_</sup>		Date	26/14
Title Senior Regula	tory Specialist					·	
Approved by (Signature	Stava Caffey	Name	(Printed/Typed)			Date	
Title	FIELD MANAGER	Office	·	CARL	SBAD FIELD OFFI	CE	<u> </u>
Application approval c conduct operations the Conditions of approva	loes not warrant or certify that the applicant holds reon. l, if any, are attached.	iegal or equi	table title to those right	s in the sub AF	jectlease which would PPROVAL FO	entitle the	applicant to
Title 18 U.S.C. Section States any false, fictitio	1001 and Title 43 U.S.C. Section 1212, make it a cr us or fraudulent statements or representations as to	ime for any p any matter w	erson knowingly and w within its jurisdiction.	vilifully to n	nake to any department	or agency	y of the United
(Continued on pa	age 2) Y CONTROLLED WATER BASIN		K: 10	207/19	*(Inst	truction	ns on page 2)
SEE ATTA CONDITIC	NCHED FOR INS OF APPROVAL		APPROVAL GENERAL SPECIAL S ATTACHED	- SUB. Requi Tipul	JECT TO IREMENTS A ATIONS	\ND	

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

HOBBS OCD

OCT 0 1 2015

## Britt B#54

RECEIVED

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 FT MD	Top Depths FT TVD	Contents
Quaternary	Surface	Surface	Fresh Water
Rustler	1361	1361	Anhydrite
Salado (top of salt)	1451	1451	Salt
Tansill (base of salt)	2547	2547	Gas, Oil and Water
Yates	2674	2674	Gas, Oil and Water
Seven Rivers	2930	2929	Gas, Oil and Water
Queen	3487	3485	Gas, Oil and Water
Penrose	3601	3599	Gas, Oil and Water
Grayburg	3743	3741	Gas, Oil and Water
San Andres	4026	4024	Gas, Oil and Water
Glorieta	5217	5213	Gas, Oil and Water
Paddock	5347	5343	Gas, Oil and Water
Blinebry	5656	5651	Gas, Oil and Water
Tubb	6365	6359	Gas, Oil and Water
Drinkard	-6686	6680	Gas, Oil and Water
Abo	6993	6986	Gas, Oil and Water
Deepest estimated perforation	6993	6986	Deepest estimated perf. is Top of Abo
, Total Depth (maximum)	7193	7186	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:

ſ	Type	,Hole Size	Interval MD RKB (ft)		OD Wt	Wt	Gr	Conn	MIY	Col	Jt Str	Calcu	Safety Fa lated per Co Corporate C	ctors nocoPhillips Criteria
	Type	(in)	From	То	(inches)	(lb/ft)		CONIT	(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	1391' – 🛵 🕇	8-5/8	24#	J-55	STC	2950	1370	244	1.38	2.15	3.05
	Prod	7-7/8	0	7153' – 7183'	5-1/2	17#	L-80	LTC	7740	6290	338	3.47	4.89	2.68

R A

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.

#### Casing Safety Factors - BLM Criteria:

Туре	Depth	Wt	MIY	Col	Jt Str	Drill Fluid	Burst	Collapse	<b>Tensile-Dry</b>	Tens-Bouy
Surface Casing	1337	24	2950	1370	244000	8.5	4.80	2.23	7.3	8.4
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
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	Burst	Collapse	Axial
Casing Design Factors	1.15	1.05	1.4

Từnă	Depth	12/1	міх	Cal	i+ S+-	Dina Via	LA NOM	Dure		Tan					
Conductor	8	5	65 35000	- IC	<u> </u>	4329	56 -	- 1	<u></u>	Ten	-1				
Surface Casing (8-5/8" 24# J-55 STC)	139	1	24 2950	137	70 24400	3810	30 8,	5 1.3	19 2.2	22 3.0	<u>.</u>				
Production Casing (5-1/2" 17# L-80 LTC)	718	3	17 7740	629	90[ 33800	3970	00 1	0 2.0	17 2,4	1.1	95				
Burst - ConocoPhillips Required Load Cases															
The maximum internal (burst) load on the Surface Casing occurs when the The maximum internal (burst) load on the Production Casing occurs during the start of the start of t	he surface ca o the fracture	ising is to	ested to 150	D psi (es	per BLM On	shore Order	2 - II Requi	ements)	L						
(MAWP) is the pressure that would its ConocoPhilips Corporate Criteria f	or Minimum Fi	ectors	uch where th			working pro	Issure								
Surface Casing Test Pressure =	1500	psi		Pred	licied Pore J	tossure at T	D (FPTD) =	8,5	5 ppg						
Surface Rated Working Pressure (BOPE) =	3000	psi		Predict	ted Frac Gra	dient at Sho	(CSFG) =	19,2	3 ppg						
Surface Casing Burat Safety Factor = API Burat Railing / M Production Casing MAWP for the Fracture Stimulation = AP	uximum Predic Burst Rating	ted Surf / Corpor	luga Prassur nia Moimum	e (MPSP) Burst De	) 'OR' Maxim Ision Factor	um Allow able	e Surface Pr	essure (	MASPI						
Surface Casing Burst Safety Factor:	-				•										
Case #1. MPSP (MWhyd next section) =	1391	x	0.052	x	10	=	723								
Case #2. MPSP (Field SW @ Bullhead <sub>Case</sub> + 200 psi) =	1391	x	0.052	×	19.23	-	723	+	200	=	868				
Case #3. MPSP (Kick Vol @ next section TD) =	7183	×	0.052	x	8.55	-	579.2	•	615	=	2000				
Case #3 & #4 Limited to MPSP (CSEG + 0.2 ond) #	1391	I X	0.052	×,	10.55	-	718.3	) =	2475						
MASP (MWhyd + Test Pressure) =	1391	x	0.052	x	8.5	+	1500		2115						
Burst Safety Factor (Max. MPSP or MASP) =	2950	1 <i>T</i>	2115		1.39										
Production Casing Burst Safety Factor:															
Case #1, MPSP (MWhyd TD) =	7183	×	0,052	x	10	=	3735.16								
Burst Safety Factor /Max_MPSP) =	7103	x	3735	×	0.00	-	718.3	. "	2475		•				
MAWP for the Fracture Stimulation (Corporate Criteria) =	7740	i	1.15	] •	6730										
Collapse - ConocoPhillips Required Load Cases															
The maximum compse load on the Surrace Casing occurs when cements The maximum compse load on the Production Casing occurs when cemen	ig to surrace, sting to surface	. 1/3 eVa 26, or 1/.	cuation to the 3 evalcuation	lo the de	ising selling lepest depth	depth, or de-	epesi depih r: and	of expoi	sure (full ev	ncuation).					
therefore, the external pressure profile for the evacuation cases should b	e equal to the	pore pr	essure of th	e horizon	s on the ou	side of the c	asing which	W# 858	urred to be	PPID					
Surface Casing Collapse Safety Factor = AFI Collapse Ratin	o / Ful Evacu	istion 'Of	R <sup>®</sup> Cernent Oli	placeme	nt during Ce	C at entirem	urface								
Production Casing Collapse Safety Factor = API Collapse Ra Commit Dankscampt Danks (BAA a	ang/Maximu 834	mPredic	ted Surface	Pressure Top of f	OR Cerrer	t Displacem	ant during Ca	menting	to Surface				۰.		
Sorface Commit Land =	13.6	PPg	Pro	nd Cerner	niLead =	11.	Bippe					•			
Surface Corrent Tell =	14.8	PPg	F	tod Cem	ent Tell =	16.	4 PPS								
Top of Surface.Tail Cement =	<u> </u>	n	Top of F	tód Tail C	Cerrint =	520	ů u								
Suntace Casing Collapse Safety Factor:			•												
Full Evacuation Diff Pressure =	1391	X	0.052	, x	8 55	æ	<b>51</b> 8		•						• .
Cementing Diff Lift Pressure =	<u> </u>	1091	×	0.052	×	13.6	) + (	300	×	0.052	x	14.8	) -	603 ] =	399
Collapse Salety Fector = Production Casing Collapse Safety Factor:	1370		616	-	2.22								. •		
1/3 Evecuation Diff Pressure =	((	7183	x	0.052	x	8,55	) - (	7163	,	з	×	0.052	×	6.34 11 =	2155
Cementing Diff Lift Pressure =	Ë.	1983	x	0.052	x	11.8	)+i	5200	×	0.052	×	16.4 .	ົົ-	3115 ] =	2536
Collapse Safety Factor =	6290	1	2536	2	2.48							,		•	•••
Tensial Strength — Concorphillips Required Lond Cases The maximum axial tension) bad occurs it assing were to get attack and p Maximum Alow able Axial Load of Poe Yield & AR Poe Maximum Alow able Axial Load of a John = AR John Stre Maximum Alow able Axial Load of John = AR John Stre Maximum Alow able Overpul Margin = Maximum Alow Maximum Alow able Overpul Margin = Maximum Alow Maximum Alow able Overpul Margin = Maximum Alow Safety Fisclor = AR Poe Yield Or AR John Stru Rig Max Load (300,000 Ins) x 75% = Mahmum Overpul Required =	vield Strengt Yield Strengt ngth Raing / ax Load) = M ble Hook Load ngth OR Rig 225000 50000	to get il th Railing Corporat aximum, d - Bouys Max Los Ibs Ibs	t unstuck. / Corporate te Minimum A Allow able Ap ant WL of The ad Rating / ( )	Minimum; xis) Desig (iş) Load String Bouyant 1	Axial Design gn Factor WL of String	+ Factor + Minimen C	verput Requ	iked )	ł					•	·
Purdean Carlan Tanalal Physicath Patish: Factor															
зонасе самну тепыка эвенут затету настог; Alt Wt =	33384														
Bouyant Wt =	33384	x	0.870	Ħ	29052										
Max. Alkowable Axini Load (Pipe Yield) =	381000	1	1.40		272143										
Max, Allowable Hook Load (Limited to 75% of Rio Max Load) =	174286	'	1.40	-	1/4286										
Max. Allowable Overpuit Margin =	174286	- (	33384	x	0.870	·) =	145234								
Tensial Safety Factor =	244000	16	29052	+	50000	) =	3.09								
Production Casing Tensial Strength Safety Factor:					,										
Air vyl = Borwant Wi =	122111		D 847	-	403469										
Max, Allowable Axial Load (Pipe Yield) =	397000	î	1.40	-	283571										
Max. Allowable Axial Load (Joint) =	338000	1	1.40		241429										
Max. Allowable Hook Load (Limited to 75% of Rig Max Load) =	225000														
Max, Allowable Overput Margin =	225000	- (	122111	×́	0.847	) =	121532								
leibia saley racio a	300000	1	103466	+	50000	) =	1.95								
Compression Strength ConocoPhillips Required Load C The maximum axial (corrigession) bad for the wells where the surface or with a support of a plate or landing ring The surface casing is also calcula but not imred. Any other xuala ladas tuch as a snubbing unit or other wou Compression Safety Factor = API Axial Joint Strength Rating 'OR API Axial Wethead Load =	<u>a ses</u> ssing is lande ited to bear 6 id need to be Ppe Yield Rai 3000 ji	d on the D% of th added to ting / Ma: bs	conductor ve load o the load ximum Predic	ied Load											
Conductor & Surface Compression Safety Factor															
Surf Casing WI (Bouyant) =	(	33384	×	0.870	) =	29052									
Prod Casing WI (Bouyant) =	Ċ	122111	×	0.847	) =	103468									
Tubing W1 (Air Wt) =	7183	x	6.5		46690		0 705 4								
Load on Conductor =	3000	× +	29052	*   +	103468	х +	46689.5	×   +	2.441 11449		13449 193659				
Conductor Compression Safety Factor =	432966	1	193659	-	2.24										
Load on Surface Casing =	193659	×	60%	Ħ	116195										
Sunace Casing Compression Salety Factor =	Z44000	1112*	יירידים: יירידים:	11	2.10									Une	<u>~ '' -</u>
R 74															

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#### 3. Proposed cementing program:

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#### 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 <sup>3</sup> /sx
Lead	Class C	Surface	1091' – 1121'	13.6	450	765	+ 2% Extender + 2% CaCl <sub>2</sub> + 0.125 lb/sx Lost Circulation Control Agent + 0.2% Defoamer	1.70
							Excess =200% based on gauge hole volume	
							1% CaCl2	
Tail	Class C	1091' – 1121'	1391' 1421'	14.8	300	402	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	Inter Ft	vals MD	Weight PPg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /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.

## 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 1<sup>st</sup> stage.

Spacer: 20 bbls Fresh Water

Stage	1 - Slurry		Intervals Ft MD	Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /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

1<sup>st</sup> stage displacement: FW followed by Weighted Spacer

#### Spacer: Remaining Weighted Spacer in cementing lines from the 1<sup>st</sup> stage displacement

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

2<sup>nd</sup> 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

Stage 1 – Slurry		Intervals Ft MD		Weight PP9	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /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

1<sup>st</sup> stage displacement: FW followed by Brine

Stage 2 - Slurry		Intervals Ft MD		Weight ppg	Sx	Vol Cuft	Additives	Yield ft <sup>3</sup> /sx
Lead	C Gas Tight Slurry	Surface	Stage Tool ~2900'	11.5	500	1300	Class C 94 Ib/sx 6% Extender 10% Gas Migration Control 2% Sodium Metasilicate (dry) 1% Cement Bonding Agent 3% Aluminum Silicate 0.125 Ib/sx Cello Flake 3 Ib/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 11" 3M system will be installed, used, maintained, and tested accordingly as described in Onshore Oil and Gas Order No. 2.

Our BOP equipment will be:

- Rotating Head 0
- Annular BOP, 11" 3M ο
- Blind Ram, 11" 3M 0
- Pipe Ram, 11" 3M 0

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. 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 p	proposed for use are as	TOIIOWS:				
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 <sub>2</sub> ) in Steel Pits	10	29	N.C.	10 - 11	300 – 1000
Conversion to Mud at TD	Brine Based Mud	10	33 – 40	5 – 10	10 – 11	0 - 1000.

(NaCl<sub>2</sub>) in Steel Pits

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.

0 - 1000.

#### 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.
  - o The bottom hole pressure is expected to be 7.8 ppg gradient.
  - o The expected Bottom Hole Temperature is 100 degrees F.
- The estimated H<sub>2</sub>S 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 begin in 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 11 November 2014 by: Steven Herrin Drilling Engineer, ConocoPhillips Company Phone (281) 206-5115 Cell (432) 209-7558 Britt B 54

(Date: 11/11/2014)

Page 8 of 11





ConocoPhil	lips			F	Planning Repo	rt			P	<b>Pro</b> Directional
Database: Company Project: Site: Well: Well: Design:	EDM 5000 ConocoPh Lea Count Britt B Britt B Wel Original ho rev0	).1 Ddatabase iillips ty, New Mexica II No. 54 ole	)		Local Co-ordi TVD Reference MD Reference North Reference Survey Calcul	nate Refe e: ce: ation Met	hod	Well Britt B W RKB=3578+13 RKB=3578+13 Grid Minimum Curv	ell No. 54 @ 3591.00ust @ 3591.00ust ature	t () t ()
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Map System: Geo Datum: Map Zone:	US State Pla NAD 1927 (N New Mexico	ne 1927 (Exa IADCON CON East 3001	t solution) US)		System Datum:		м	ean Sea Level		
Site	Britt B				,					
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400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600,00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler	0.00	0.00	1,361.00	0.00	0.00	0.00	0.00	0.00	0.00
1.400.00	0.00	0.00	1.400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,451.00	0.00	0.00	1,451.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00 ,	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,155.73 Begin 3.11° tar	igent	320.24	2,155.00	3.25	-2.75	4.23	2.00	2.00	0.00
2 200 00	3 11	320.24	2 199 86	5 10	.4 25	6 64	0.00	0.00	0.00
2,200.00	3.11	320.24	2,299,71	9.28	-7.72	12.07	0.00	0.00	0.00
2,400.00	3.11	320.24	2,399.56	13.46	-11.20	17.50	0.00	0.00	0.00
2,500.00	3.11	320.24	2,499.41	17.63	-14.67	22.94	0.00	0.00	0,00
2,547.66 Tansili	3,11	320.24	2,547.00	19.62	-16.33	25.53	0.00	0.00	0.00
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2,600.00	3,11 3.11	320,24 320,24	2,599,27 2,674.00	21.81 24.93	-18,15 -20,75	28.37 32.44	0.00	0.00	0.00
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2,700.00	3,11	320,24	2,699,12	25.99	-21,62	33,80	0.00	0.00	0.00
2,800,00	3.11	320.24	2,798.97	30.16	-25:10	39.24	0.00	0.00	0.00
2,900.00	3.11	320.24	2,898.82	34.34	-28.57	44.67	0.00	0.00	0.00
2,33U.22	, <b>3.</b> (1	JZU,Z4	2,323.00	33,60	-29.02	40.31	0.00	0.00 .	0,00
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3,200.00	3.11	320.24	3,198.38	46.67	-39.00	60.97	0.00	0.00	0.00
3,300.00	3.11	320.24	3,298.23	51.05	-42.47	66.41	0.00	0.00	0.00
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0,407.04	5.11	020.24	5,405.00	30.00	-40.87	(0.5)	0.00	0.00	0,00
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3,500.00	3 11	320.24	3,597 79	63.58	-40.42 -52.90	82 71	0.00	0.00	0.00
3,601,21	3.11	320.24	3,599.00	63.63	-52.94	82.77	0.00	0.00	0.00
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ConocoPhillips				Planning	g Report				
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3,700.00	3.11	320.24	3,697.64	67.75	-56.38	88.14	0.00	0.00	0.00
3,743.42	3.11	320.24	3,741.00	69.57	-57.88	90.50	0.00	0.00	0.00
Grayburg	2 44	320.24	3 707 40	71.02		02 57	0.00	0.00	0.00
3,900.00	3.11	320.24	3.897.35	76.11	-55.65	93.57	0.00	0.00	0.00
4,000.00	3.11	320.24	3,997.20	80.28	-66.80	104.44	0.00	0.00	0.00
4,026.84	3.11	320.24	4,024.00	81.40	-67.73	105.90	0.00	0.00	0.00
San Andres	2 44	320.24	4 007 05	94.40	70.09	100.97	0.00	0.00	
4,100.00	3.11	320.24	4,196.90	88.64	-70.20	115.31	0.00	0.00	0.00
4,300.00	3.11	320.24	4,296.76	92.81	-77.23	120.74	0.00	0.00	0.00
4,400.00	3.11	320,24	4,396.61	96.99	-80.70	126.17	0.00	0.00	0.00
4,500.00	3.11	320.24	4,496.46	101.16	-84.18	131.61	0.00	0.00	0.00
4,600.00	3.11	320.24	4 596.31	105.34	-87.65	137.04	0.00	0.00	0.00
4,700.00	3.11	320.24	4,696.16	109.52	-91.13	142.47	0.00	0.00	0.00
4,800.00	3.11	320.24	4,796.02	113,69	-94.60	147.91	0.00	0.00	0.00
4,900.00	3.11	320.24	4,895.87	117,87	-98.08	153.34	0,00	0.00	0,00
5,000.00	3.11	320.24	4,995.72	122,05	-101.56	158.77	0.00	0.00	0,00
5,100.00	3.11	320,24	5,095,57	126.22	-105.03	164.21	0.00	0.00	0.00
5,200,00	3.11	320,24	5,195,43	130.40	-108.51	169.64	0.00	0,00	0.00
Glorieta	5.11	020.24		131.14	-100,12	170.00	0.00	0,00   	0.00
5,300.00	3.11	320.24	5,295.28	134.58	-111,98	175.07	0.00	0.00	0.00
5,347.79 Paddock	3,11	320.24	5,343.00	136.57	-113.64	177.67	0.00	0.00	0.00
5,400.00	3.11	320.24	5,395.13	138.75	-115.46	180.51	0.00	0.00	o.oo
5,500.00	3.11	320.24	5,494.98	142,93	-118.93	185.94	0.00	0.00	0.00
5,600.00	3.11	320.24	5,594.84	147.11	-122,41	191.38	0.00	0.00	0.00
5,656.25	3.11	320.24	5,651.00	149.46	-124,36	194.43	0.00	0,00	0.00
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5,700.00	3.11	320.24	5,694.69	151.28	-125.88	196.81	0.00	0.00	0.00
5,800.00	3.11	320.24	5,794.54	155.46	-129.36	202.24	0.00	0.00	0.00
6 000 00	3 11	320.24	5,894.39	163.81	-136.31	207.00	0.00	0.00	0.00
6,100.00	3,11	320.24	6,094.10	167.99	-139.78	218.54	0.00	0.00	0.00
6 200 00	3 11	320.24	6 193 95	172 17	-143.26	223.08	0.00	0.00	0.00
6,300.00	3.11	320.24	6,293.80	176.34	-146.74	229.41	0.00	0.00	0.00
6,365.30	3.11	320.24	6,359.00	179.07	-149.00	232.96	0.00	0.00	0,00
Tubb									
6,400.00	3.11	320.24	6,393.65	180,52	-150.21	234.84	0.00	0.00	0.00
6,500.00	3.11	320.24	6,493.51	184,70	-153.69	240.28	0.00	0.00	0.00
6,600.00	3.11	320.24	6,593.36	188.87	-157.16	245.71	0.00	0.00	0.00
6,686.77	3.11	320,24	6,680.00	192.50	-160.18	250.42	0.00	0.00	0.00
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6,700.00	3.11	320.24	6,693.21	193.05	-160.64	251.14	0.00	0.00	0.00
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e 002 00	2.11	220.24	C 00C 00	201.70	107.00	202.01	0.00	0.00	0.00
6,993.22 <b>Abo</b>	<b>3.</b> 11	320.24	0,900.00	205,30	-170.83	267,08	0,00	0.00	U.00
7,000.00	3.11	320,24	6,992.77	205.58	-171.06	267.44	0.00	0.00	0.00
7,100.00	3.11	320.24	7,092.62	209.76	-174.54	272.88	0.00	0.00	0.00
7,193,52	3.11	320,24	1,100,00	213,66	-177.79	277,96	0,00	0.00	• 0.00

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COMPASS 5000.1 Build 65

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ConocoPhillips	Planning I	Report	
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2,547.66 2,547	0 Tansil	0.00	• ,
2,674.84 2,674	0 Yates	. 0.00	!
2,930,22 2,929		0.00	,
3,467,04 3,463	0 Penrose		· · ·
3,743.42 3,741	0 Grayburg	0.00	
4,026.84 4,024	0 San Andres	0.00	1
5,217.60 5,213	0 Glorieta	0.00	
5,347.79 5,343	0 Paddock	0.00	
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6,686.77 6,680	0 Drinkard	0.00	•
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COMPASS 5000.1 Build 65

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Attachment # 3



(Date: 11/11/2014)

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## **Request for Variance**

## ConocoPhillips Company

Lease Number: NM LC 031621B Well: BRIT B #54 Location: Sec. 10, T20S, R37E Date: 10/16/2013

## 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 # 2



Variance Request



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

ConocoPhillips Company Well: Britt B 54 Location: Sec. 10, T20S, R37E Date: 10/30/2013

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

 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 remediately.

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.

James Chen Drilling Engineer Office: 281-206-5244 Cell: 832.678.1647

# SPECIFICATIONS

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

center WALLS: 3/16! PL solid welded with tubing top /insi de liner hooks DOOR: 3/16! PL with tubing frame FRONT: 3/16! PL slant formed PICK!UP: Standard cable with 2' x 6' x 1/4' rails, 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 GASKETS: Extruded rubber seal with instal rearers WELDS: All welds continuous except substructure crossmembers FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic ename! color.coat HYDROTESTING: Full capacity static lest DIMEN SIONS: 22' 11' long (21-8' inside); 99' wide (88' inside) see drawing for height, Amplicoll, Heil and Dino lockup ROOF: 3/16' PL root panels with tubing and channel support frame.

LIDS: (2) 68" x 90" metal rolling lids spring loaded, self reising ROLLERS: 4" V-groove rollers with defrin bearings and grease filtings OPENING: (2) 60" x 82" openings with 8", divider centered on

OPENING: (2) 60" x 82" of with 8" divider centered on contain er LATCH (2) independent ratchet binders with chains per lid GASKETS: Extruded rubbe seal with metal retainers

## Heavy Duty Split Metal Rolling Lid



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





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