Form 3160-3 HOBBS OCD						
Form 3160-3 (March 2012) SEP 2 4 2012 UNITED STATES DEPARTMENT OF THE I	O	CD Hobbs		OMB	A APPROVI No 1004-01 October 31, 2	37
	NTERIOR			5. Lease Serial No. NM27508		
ABPLICATION FOR PERMIT TO I		NTER		6 If Indian, Allote N/A	e or Tribe	Name
la. Type of work: DRILL REENTE	R			7 If Unit or CA Ag N/A	reement, Na	ame and No.
Ib Type of Well: 🔽 Oil Well 🗌 Gas Well 🛄 Other	Single Zor	ne 🗌 Multip	ole Zone	8. Lease Name and Wilder 29 Federal		39470
2 Name of Operator ConocoPhillips Company	<21	1811	7	9 API Well No.	5-2	10790_{-}
Midland, Tx 79710	3b Phone No. (mclude 432-688-6943	e area code)			GS; B	5 UPPER SHALE
4. Location of Well (Report location clearly and in accordance with any				11. Sec., T. R. M. or Section 29-26S-32		ivey or Area
At surface 524 FNL & 849 FEL (NENE) UL: A of 29-26S- At proposed prod. zone 330 FSL & 795 FEL (SESE) UL: P of				3601011 29-203-3	25	
14 Distance in miles and duection from nearest town or post office* 30 miles southwest of Jal, NM				12 County or Parish Lea		13. State NM
 Distance from proposed* 330 location to nearest property or lease line, ft (Also to nearest drig. unit line, if any) 	16 No. of acres in la 1280 federal acre	ease 98	160 acre		well	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft	19 Proposed Depth 13411 MD/9265	TVD	20 BLM/I ES0085	BIA Bond No. on file		
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*			23. Estimated durati	on	
3139 GL	09/01/2012 24. Attachment			30 days		
The following, completed in accordance with the requirements of Onshore			tached to th	is form:		
 Well plat certified by a registered surveyor A Drilling Plan. 	It	em 20 above).		ns unless covered by a	n existing l	oond on file (see
3 A Surface Use Plan (if the location is on National Forest System I SUPO must be filed with the appropriate Forest Service Office)	6. 5	perator certific such other site BLM.		ormation and/or plans a	is may be i	equired by the
25 Signature	Name (Printed Donna Willia				Date 07/30/2	2012
Title Sr. Regulatory Advisor						
Approved by (Signature) /s/ Don Peterson	Name (Printed	^{d/Typed)} /s/	/ Don	Peterson	Date SI	EP 2 0 2012
Title	Office		CAR	SBAD FIELD OF	FICE	
Application approval does not wairant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equitable tit	le to those right	ts in the sub Al	ject lease which would	entitle the a	Applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as to			villfully to n	nake to any department	or agency	of the United
(Continued on page 2)				•	tructions	s on page 2)
Carlsbad Controlled Water Basin	KA	09/2	gn	Approval Subj & Specia	ect to Gi Il Stipula	eneral Requirements tions Attached
		0.55	-		0.0	

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SEE ATTACHED FOR CONDITIONS OF APPROVAL SEP 2 6 2012

OPERATORS NAME:

LEASE NAME AND WELL NO.: SURFACE LOCATION: CASING POINT: BHL: FIELD NAME: POOL NAME: COUNTY:

ConocoPhillips Company

Wilder 29 Federal # 1H	
524 FNL & 849 FEL (NENE) of 29-26S-32E	
1233 FNL & 836 FEL (NENE) of 29-26S-32E	
330 FSL & 795 FEL (SESE) of 29-26S-32E	
Red Hills; Bone Spring	
Bone Spring/Avalon	
Lea County, New Mexico	
Federal Surface/Federal Minerals NM27508	

The following information is to supplement the Application for Permit to Drill.

DRILLING PLAN

1. Name and estimated tops of all geologic groups, formations, members, or zones.(TVD)

Quaternary	Surface	Water
Rustler	1000	Salt
Castille	2455	Salt
Delaware Top	4285	Oil/gas/water
Ramsey	4328	Oil/gas/water
Ford Shale	4376	Oil/gas/water
Olds	4397	Oil/gas/water
Cherry Canyon Lower Top	6575	Oil/gas/water
Bone Spring	8107	Oil/gas/water
Bone Spring 1 st Carbonate	8327	Oil/gas/water
Base of Bone Spring 1st Carbonate	8422	Oil/gas/water
KOP (estimate)	8508	
Avalon A Shale Top	8629	Oil/gas/water
Avalon B Zone Top	8871	Oil/gas/water
Avalon C Shale Top	9026	Oil/gas/water
Avalon Target	9227	Oil/gas/water

2. Estimated depths and thickness of formations, members or zones potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals that the operator expects to encounter, and the operator's plans for protecting such resources.

Quanternary	Surface-1000' (water)							
Rustler & Castile	1000-4285' (salt)							
All of the water bearing formations identified above will be protected by the intermediate								
setting of the 9 5/8" casing and c	setting of the 9 5/8" casing and circulating of cement to surface							

4285-8107 (oil/gas/water) Delaware The prospective formation identified will be protected by the intermediate setting of the 7" casing and tying the cement into the 9 5/8" casing 8107-9227 (oil/gas/water) Bone Spring The geologic tops identified above from the top of the Bone Spring/Avalon are part of the target formation

The operator's minimum specifications for blowout prevention equipment and diverter 3. systems to be used, including size, pressure rating, configuration, and the testing procedure and frequency.

> A 5000# system will be installed, used, maintained, and tested accordingly. After nippling up, and every 30 days thereafter, 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 recorded on the daily drilling reports. Ram Type preventors will be tested to rated working pressure or 70% of the minimum internal yield of the casing. Annular type preventer(s) shall be tested to 50% of the approved BOP stack working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer. Pursuant to Onshore Oil and Gas Order No. 2, the BOP equipment for a 5M system or greater shall include lower Kelly cock valve with handle available, safety valves and subs to fit all drill string connections in use and inside BOP or float sub shall be available. All choke lines from the drilling spool forward shall meet the requirements of the Onshore Order 2 as specified. See Attached BOPe Schematic

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

NEW CASING:

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* * *

Surface: 17 1/2" hole, 13 3/8" 54.5# J55 STC csg, set @ 1030". Drill out with 12 ¼" bit and perform shoe test to 11.0 ppg MWF Burst: 2.37/Collapse: 4.92/Tension: 2.57 Intermediate 1: 12 1/4" hole, 9 5/8" 36# J55 LTC csg, set @ 4350 Burst: 2.88/Collapse: 2.62/Tension: 4.74 Intermediate 2: 8 3/4" hole, 7" 29# P110 BTC csg set @ 9629 MD/9227 TVD Burst: 2.29/Collapse: 1.74/Tension: 2.81/3.31

Liner PIIO FITC per Donna

Production Liner (Uncemented): 6" hole, 4 ¹/₂" 11.6# liner set @ 9080-13,635 MD Burst: 3.25/Collapse: 3.36/Tension: 5.78/6.80

The plan is to set casing and drill open hole in a southern direction to a proposed bottomhole location of 330 FSL & 795 FEL (SESE) of Section 29-26S-32E

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ConocoPhillips will utilize casing friendly hardbanded drill pipe in a manner that is consistent with current company policy and standards with respect to minimizing or mitigating internal casing wear. The responsibility to ensure all parties are acting according to their roles and responsibilities rest with the Company. Any damage or impacts from use of casing friendly hardbanded drill pipe rest with ConocoPhillips Company.

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

13 3/8 casing: Lead w/770 sxs Class C cmt + HalCem-C (Yield 1.33 cft) Tail w/230 sxs Class C cmt + 1 lbm/sk EconoChem HRLTRRC (Yield 1.85 Cuft/sk). Circulated to surface based on 17 ½" hole with 100% excess

9 5/8" casing: Lead w/980 sxs 50/50 Class C Poz + 2.5 gal/bbl WG-19 + 1 lbm/sk EconoCem-C (Yield 2.48 cft/sk), Tail w/140 sxs H + HalCem C (Yield 1.33 cft/sk) Circulatd to surface based on 12 ¼" hole w/120% excess

7" casing: Lead w/560 sxs HLH + .3% Halad9 + 5 lbs/sk silicalite + .3% HR-800 (Yield 2.0 cft/sk), Tail w/232 sxs Class H + .4% Halad-9 + .1% WG-17 + 3.0% KCl + .3% HR800 (Yield 1.2 cft/sk). Circulate cement 500' into the 9 5/8" casing based on 8 ³/₄" hole w/100% excess

4¹/₂" Liner: Uncemented

11.6# P110 BTC

6. The anticipated type and characteristics of the proposed circulating medium or mediums proposed for the drilling of each wellbore section, the quantities and types of mud and weighting material to be maintained, and the monitoring equipment to be used on the circulating system.

Mud Program:					
0-1030	Aquagel-Spud Mud	8.9	Wt/Gl	32-36 Vis.	NC
1030-4350	Brine	10	Wt/Gl	28-30 Vis.	5-8
4350-9629	Brine	9.3	Wt/Gl	28-30 Vis	5-8
9629-13695	Cut Brine	9.3	Wt/Gl	30-40 Vis	<=5

Gas detection equipment and pit level flow monitoring equipment will be on location. ConocoPhillips Company will maintain sufficient mud and weighted material on location at all times.

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

- a. DST Program: None
- b. Mud Logging: Two-Man 1030-TD Logs to be run: GR/MWD

* See COA

8. List the expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of the BLM.

The expected pressure gradient is 0.433 psi/ft or 9-9.1 ppg equivalent .The average anticipated bottom hole pressure ranges on average is .65 psi/ft No hydrogen sulfide is expected during drilling operations; however, the potential does exist for H2S. Please see attached H2S contingency plan to be used in the event of occurrence.

Any other facets of the proposed operation which the operator wishes to be considered in reviewing the application.

Anticipated construction date is September 1, 2012 with anticipated spud date of October 1, 2012. Construction of well pad and road will begin as soon as all agency approvals are obtained.

9. Address the proposed directional design, plan view, and vertical section in true vertical and measured depth for directional, horizontal, or coil tubing operations.

The proposed directional/horizontal documents are attached.

						•			
				DRILLING P	LAN				
PROSPECT/FIELD	Bonespring/Red Hills					COUNTY/STATE		Lea County,	NM
OWNERS	ConocoPhillips Wilder Federal 29 #1H			FNL	LEASE	FEL	FWL	-	
WELL NO	Vviider Federal 29 #1H	g	Surface Location	524	FSL	849	FVVL		
LOCATION			Bottom Hole Location		330	795			
EST TD	Leg #1 13 411' MD					GROUND ELEV	1	3 139' (est)
							RKB	315	5
PROGNOSIS	Base	d on 3,155' KB(est)			LOGS	<u>Typ</u> Open Hole	<u>)e</u>	-	terval
MARKER		S S DEPTH		TVD		GR-MWD		KOP-TD	
Quaternary Rustler Delaware Top		0.455		Surface					
Delaware Top		<u>2,155</u> -1130		1,000	DEVIATION				
Bone Spring	-	-4952		8,107	DEVIATION	Surf	3° max, svy eve	ery 500'	
Bone Spring 1st Carbonate Top Bone Spring 1st Carbonate Base		-5172		8,327		int #1/2	3º max, svy eve	ry 90'	
Bone Spring 1st Carbonate Base][-5267		8,422			90°, svy every 3		
КОР				8,508		Prod Lateral	90°, svy every 3	0'	
Avalon A Shale Top	_	-5474		8,629					
Avalon A Shale Base	4 -	-5716		8,871					
Avalon B Zone Top Avalon B Zone Base		-5716 -5871		9,026	DST'S				
Avalon C Shale Top		-5871		9,026					
	<u> </u>			1	i i				
Avalon C Shale Horizontal Target		-6072		9,227					
Avalon C Shale Base		-6151		9,306	CORES				
	J (CORES	No core			
					SAMPLES				
						Mudlogging	Start	End	
						Two-Man	1030'	TD V	ertical and Horizontal sections
					BOP				
						Precision 827 BOP	COP Category 3		
						(With Rotating Head		13-5/8"-5Mpsi / 13-3/8"-5Mpsi /	Blind Bam
						(Marrielang House	,		Cross / Choke & Kill Lines
								13-3/8"-5M psi	Pipe Ram
De Data	(See instruction production)							13-3/8"-5Mpsi	Spacer Spool
Dip Rate Max_Anticipated BHP	(See inclination prediction)	0 65 ps/ft			Surface For	mation			
MUD	Interval	000 pain	Type		Max MW	Vis		WL	Remarks
Surface	0'-1030'		Aquagel - Spud Mud		89	32-36		NC	
Intermediate 1	1030'-4350'		Brine		10	28-30		5-8	
Intermediate 2	4350'-9629'		Bnne		93	28-30		5-8	
Production	9695'-13695'		Cut Brine		93	30-40		<=5	
CASING	Size	Wt ppf	Hole	Depth		Cement		woc	Remarks
Surface	13-3/8"	54 5	17-1/2	1,030		To Surface		18hrs	Remarks
Intermediate 1	9-5/8"	36	12-1/4"	4,350		To Surface		<u>18hrs</u>	
Intermediate 2	7*	29	8 3/4"	9,629		500' into the 9-5/8"		18hrs	
Production Lat #1	4 1/2"	116	6"	13,635'		Packers and Sleeve	es	N/A	Liner
DIRECTIONAL PLAN		ME				-			
	0	MD	TVD				AZ	Distant and D	DDO
	Surface Vertical KOP	N/A 8 510'	N/A 8,510'						Poto Boto 8.0 1/1001
	End Build/ 7"Casing (90° curve)	9,629	9,227					Vertical Build Tan Leg Turn	
	Tangent	N/A	N/A				1790	ran Leg Tull	Rate 00/100
	Turn	N/A	N/A				1790		
	TD	13,411'	9,265'				179 0		
Comments Surveys will be taken with INC Survey Tool	below surface casing while e	driling with PDC + i	Motor+ Teledrift BHA	ι.					
Ргер Ву	Katia Filina			Date	7/26/12			Doc RE	EV 3
									·····



Bonespring/Red Hills ConocoPhillips Wilder Federal 29 #1H

Surface Casing:

Surface Casing Depth (Ft) Surface Casing O D (In.) Surface Casing ID (In) Hole O D. (In) Excess (%) **Volume Tail (Sx)** Yield Tail (Cu. Ft /Sx) Yield Lead (Cu Ft./Sx) Shoe Joint (Ft) Shoe Volume (Cu Ft) Tail feet of cement Calculated Total Volume (Cu Ft.) Calc. Tail Volume (Cu Ft.) Calc Lead Volume (Cu Ft.) **Calc. Lead Volume (Sx)**

	1,030.	
	13 375	
	12 715	
	17 5	
	100%	
	230	
	1 85	
	1 33	
	40	
	35 3	
	3300	
)	1,466	
	417	
	1,014	
	770	

gee COA

Intermediate1 Casing (Lead):

Intermediate Casing O D (In) Intermediate Casing ID (In) Hole O D (In) Excess (%) cap 12-1/4 - 9-5/8" Calculated fill Yield Lead (Cu Ft /Sx) Calculated Total Lead (Cu Ft) Calc. Lead Volume (Sx)

Intermediate2 Casing (Lead): Intermediate Casing O.D. (In.) Intermediate Casing ID (In) Hole O D. (In) Excess (%) cap 7" - 8-3/4" bls/ft cap 7 - 9-5/8" bls/ft Calculated fill. (500' into 9-5/8") Yield Lead (Cu Ft./Sx)

Calculated Total Lead (Cu Ft)

Calc. Lead Volume (Sx)

9 625
8 835
12 25
100%
0 0558
500
1 33
40
17 0
174
140

Intermediate1 Casing (Tail):

Intermediate2 Casing (Tail): 7.000 Intermediate Casing O.D. (In) Intermediate Casing ID (In) 6 184 Hole O.D. (In) 8.75 Excess (%) 135% cap 7" - 8-3/4" bls/ft 0 0268 cap 7 - 9-5/8" bls/ft 0 02823 Calculated fill: 1,300 Yield Lead (Cu Ft /Sx) 1.2 Calculated Total Tail (Cu. Ft) 278

Required Tail Volume (Sx)

232

8329

9 625

8 921

12 25

100%

0.0558

2 48

2,412

980

7.000

6 184

8 75

20

1.118

560

135%

0 0268

0.02823

4 479

3,850

Wilder Federal 29 1H Proposed To	ops			GL 3139	KB (via survey plat)	3,155
			'his horizontal w vith a ∼ 3,890' Ior		from N to S into the .	Avalon C Shale Zone. The
Surface	Location	Sec 29	T26\$	1	R32E	Lea Co. NM, Surface Location 524' FNL & 849 FEL
Bottom Hole	Location	Sec 29	T26S	R32E		Lea Co. NM, Terminus Location: 330' FSL & 798 FEL
Formation Name	Formation Top (TVD)	Subsea Depth	Gross Thickness	Gross Thickness	Gross Thickness	Comments
Quaternary	Surface			1		
Rustler	1,000					
Castile	2,455	700				
Delaware Top	4,285	-1,130			featili h Billi lair fi ile ceiti da cera man ega agençaire ceare di	
Ramsey	4,328					
Ford Sh	4,376					
Olds	4,397					
Cherry Canyon Lower Top	6,575					
Bone Spring Top	8,107	,				
Bone Spring 1st Carbonate Top	8,327		95			
Bone Spring 1st Carbonate Base	8,422					
KOP (est)	8,508	-5,353		<u> </u>		Not a formation top
Avalon A Shale Top	8,629					
Avalon A Shale Base	8,871	-5,716		{		
Avalon B Zone Top	8,871					
Avalon C Shale Top	9,026			I	h	
	9,026			`		Not a fame affect to a
LANDING: Avalon C Shale Horizontal Upper Target Limit LANDING: Avalon C Shale Horizontal Target Center	9,202 9,227	-6 047 -6.072			677	Not a formation top
LANDING. Avaion C Shale Honzontal Target Center LANDING Avaion C Shale Honzontal Lower Target Limit	9,227	-6.097				Not a formation top.
TERMINUS Avalon C Shale Horizontal Upper Target Limit	9,240			280		Not a formation top.
TERMINUS: Avalon C Shale Horizontal Target Center	9,265					Not a formation top.
TERMINUS Avalon C Shale Horizontal Lower Target Limit	9,290					Not a formation top
	-,	-6,151		2		

P \My Documents\Permain Documents\Red Hills Wells\COP_Wilder Fed 29 1H\Wider Fed 29 1H_Proposed tops_ 4-30-12 vis

by H Vick, 6/11/2012

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Conoco Phillips

Lea County, New Mexico Sec 29 T26S R32E Wilder Federal 29 #1H

Wellbore #1

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Plan: Design #5

DDC Well Planning Report

12 June, 2012





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Database: Company:	EDM 5000 1 Conoco Phil	Single User	Db	Local C		Reference:	i	er Federal 29 3155 0usft (P	#1H recision #827)
roject:		New Mexico		MD Refe				3155 0usft (P	recision #827)
lite:	Sec 29 T265				eference:		Grid	0	•
Vell:	Wilder Feder Wellbore #1			Survey	Calculation	Method:	Minimum	Curvature	
Vellbore: Design:	Design #5			I			l	•	κ.
vesigii.				• · · · · · · · · · · · · · · · · · · ·			• • • • • • • • • •	-	به مندسه ۱۹۰ مولد کار ¹ ما ^ر م م از مندسه (۱ ۹۰ مولد مار م
Project	Lea County, I	New Mexico				• .	. •_ •		·
Map System: Geo Datum: Map Zone:	US State Plan NAD 1927 (NA New Mexico E	DCON CON		System D	atum:		Mean Sea I	.evel	
Site	Sec 29 T26S	R32E	.,	· · · · · · · · · · · · · · · · · · · ·	···· ···				
Site Position:	ta'n araan		Northing:	371,	336 41 usft	Latitude:			32° 1' 9 447
From:	Мар		Easting:	699,	118 36 usft	Longitude	:		103° 41' 27 155
Position Uncertai	nty:	0 0 usft	Slot Radius:		13-3/16 "	Grid Conv	ergence:		0 34
Well	Wilder Federa	al 29 #1H				 	u .	· · · ·	
Well Position	+N/-S	0 0 usft	Northing [.]		371,336 4	. –	atıtude:		32° 1' 9 447
	+E/-W	0 0 usft	Easting:		699,118 3	6 usft L	ongitude:		103° 41' 27 155
Position Uncertai	nty	0 0 usft	Wellhead El	evation:		G	round Lev	el:	3,139 0 u
Wellbore	Wellbore #1	••••	··· ·	• * .	1 11 7 1	~ ~ ~	•• <u>•</u> •••	· · · · · ·	*
Magnetics	Model Na	me s	Sample Date	Declina (°)		Dip	Angle (°)	Fie	ld Strength (nT)
	IGR	F2010	5/9/2012		7 52	-	59	95	48,392
Design	Design #5			~ *	· .		· · · · [*]		
Audit Notes:		• • • • • •	2 27		• • • •		• • •	•	
Version:			Phase:	PLAN	٦	ie On Depth	:	0 0	
Vertical Section:	*** **** * *		rom (TVD) sft)	+N/-Ŝ (usft)		Ē/-Ŵ usft)		Direction (°)	
、	-		51 <i>0</i>			00		178 96	
Plan Sections		*	<u> </u>		• •				<u> </u>

	measurea			* CILICUI			Doglog	Dunu	1 (411)		1	
;	Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rațe (°/100usft)	Rate (°/100usft)	Ráte (°/100usft)	TFO (°)	Target	
		· ·			•	• -		•		-		
	0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00		
	8,510 8	0 00	0 00	8,510 8	0 0	0 0	0 00	0 00	0 00	0 00		
	9,628 6	89 42	178 96	9,227 0	-708 9	12 8	8 00	8 00	16 01	178 96		
	13,410 6	89 42	178 96	9,265 0	-4,490 1	81 2	0 00	0 00	0 00	0 00	PBHL Wilder Feder	

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Well Planning Report

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Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well Wilder Federal 29 #1H	··· ·
Company:	Conoco Phillips	TVD Reference:	WELL @ 3155 Ousft (Precision #827)	i,
Project:	Lea County, New Mexico	, MD Reference:	WELL @ 3155 Ousft (Precision #827)	1
Site:	Sec 29 T26S R32E	North Reference:	Grid	1
Well:	Wilder Federal 29 #1H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	Wellbore #1	1	1	,
Design:	Design #5	;		· · · ·
Planned Survey				

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Build 8° / 1	100'		-			•		· · ·	
8,510 8	0 00	0 00	8,510 8	0 0	0 0	0 0	0 00	0 00	0 00
8,600 0	7 14	178 96	8,599 8	-5 5	01	55	8 00	8 00	0 00
Avalon A S		170.00	8 620 0	0.0	0.2	0.0	8.00	9.00	0.00
8,629 5 8,700 0	9 50 15 14	178 96 178 96	8,629 0 8,697 8	-9 8 -24 8	02 04	98 248	8 00 8 00	8 00 8 00	0 00 0 00
8,800 0	23 14	178 96	8,792 2	-57 6	10	576	8 00	8 00	0 00
	Shale Base - A		Тор						
8,888 2	30 19	178 96	8,871 0	-97 2	18	97 2	8 00	8 00	0 00
8,900 0	31 14	178 96	8,881 1	-103 2	19	103 2	8 00	8 00	0 00
9,000 0	39 14	178 96	8,962 8	-160 7	29	160 7	8 00	8 00	0 00
	Shale Base - A		•						
9,085 8	46 00	178 96	9,026 0	-218 7	40	218 7	8 00	8 00	0 00
9,100 0	47 14	178 96	9,035 8	-229 0	41	229 0	8 00	8 00	0 00
9,200 0	55 14	178 96	9,098 4	-306 7	5 5	306 8	8 00	8 00	0 00
9,300 0	63 14	178 96	9,1497	-392 5	71	392 6	8 00	8 00	0 00
9,400 0	71 14	178 96	9,188 5	-484 6	88	484 6	8 00	8 00	0 00
9,500 0	79 14 87 14	178 96	9,214 2	-581 1 -680 3	10 5 12 3	581 2 680 4	8 00 8 00	8 00 8 00	0 00 0 00
9,600 0 End of Cui	o7 14 rve / 89.42° Inc	178 96 / 178 96° A zr	9,226 1	-000 3	12.3	000 4	0.00	0.00	0.00
9,628 6	89 42 89	178.96 A21	9,227 0	-708 9	12 8	709 0	8 00	8 00	0 00
9,700 0	89 42	178 96	9,227 7	-780 3	14 1	780 4	0 00	0 00	0 00
9,800 0	89 42	178 96	9,228 7	-880 2	15 9	880 4	0 00	0 00	0 00
9,900 0	89 42	178 96	9,229 7	-980 2	17 7	980 4	0 00	0 00	0 00
10,000 0	89 42	178 96	9,230 7	-1,080 2	19 5	1,080 4	0 00	0 00	0 00
10,100 0	89 42	178 96	9,231 7	-1,180 2	21 3	1,180 4	0 00	0 00	0 00
10,200 0	89 42	178 96	9,232 7	-1,280 2	23 1	1,280 4	0 00	0 00	0 00
10,300 0	89 42	178 96	9,233 7	-1,380 1	25 0	1,380 4	0 00	0 00	0 00
10,400 0	89 42	178 96	9,234 7	-1,480 1	26 8	1,480 4	0 00	0 00	0 00
10,500 0 10,600 0	89 42 89 42	178 96 178 96	9,235 7 9,236 7	-1,580 1 -1,680 1	28 6 30 4	1,580 4 1,680 3	0 00 0 00	0 00 0 00	0 00 0 00
-	•					-			
10,700 0 10,800 0	89 42 89 42	178 96 178 96	9,237 7 9,238 7	-1,780 1 -1,880 0	32 2 34 0	1,780 3 1,880 3	0 00 0 00	0 00 0 00	0 00 0 00
10,800 0	89 42	178 96	9,239 7	-1,980 0	35 8	1,980 3	0 00	0 00	0 00
11,000 0	89 42	178 96	9,240 8	-2,080 0	37 6	2,080 3	0 00	0 00	0 00
11,100 0	89 42	178 96	9,241 8	-2,180 0	39 4	2,180 3	0 00	0 00	0 00
11,200 0	89 42	178 96	9,242 8	-2,279 9	41 2	2,280 3	0 00	0 00	0 00
11,300 0	89 42	178 96	9,243 8	-2,379 9	43 0	2,380 3	0 00	0 00	0 00
11,400 0	89 42	178 96	9,244 8	-2,479 9	44 8	2,480 3	0 00	0 00	0 00
11,500 0	89 42	178 96	9,245 8	-2,579 9	46 6	2,580 3	0 00	0 00	0 00
11,600 0	89 42	178 96	9,246 8	-2,679 9	48 5	2,680 3	0 00	0 00	0 00
11,700 0	89 42	178 96	9,247 8	-2,779 8	50 3	2,780 3	0 00	0 00	0 00
11,800 0 11,900 0	89 42 89 42	178 96 178 96	9,248 8 9,249 8	-2,879 8 -2,979 8	52 1 53 9	2,880 3 2,980 3	0 00 0 00	0 00 0 00	0 00 0 00
12,000 0	89 42 89 42	178 96	9,249 8 9,250 8	-2,9798	55 7	2,980 3 3,080 3	0 00	0 00	0 00
12,100 0	89 42	178 96	9,251 8	-3,1798	57 5	3,180 3	0 00	0 00	0 00
12,200 0	89 42	178 96	9,252 8	-3,279 7	59 3	3,280 3	0 00	0 00	0 00
12,200 0	89 42	178 96	9,253 8	-3,3797	61 1	3,280 3	0 00	0 00	0 00
12,400 0	89 42	178 96	9,254 8	-3,4797	62 9	3,480 3	0 00	0 00	0 00
12,500 0	89 42	178 96	9,255 8	-3,579 7	64 7	3,580 3	0 00	0 00	0 00
12,600 0	89 42	178 96	9,256 8	-3,679 6	66 5	3,680 2	0 00	0 00	0 00
12,700 0	89 42	178 96	9,257 9	-3,7796	68 3	3,780 2	0 00	0 00	0 00
12,800 0	89 42	178 96	9,258 9	-3,8796	70 1	3,880 2	0 00	0 00	0 00

6/12/2012 12 05 46PM

COMPASS 5000 1 Build 39





Well Planning Report

Database: Company:	oany: Conoco Phillips					1	Local Co-ordinate Reference; TVD Reference:				Well Wilder Federal 29 #1H WELL @ 3155.0usft (Precision #827)					
Project:	1	Lea County, New Mexico					MD Reference:				'ELL @ 3	155.0us	ft (Prec	ision #8	27)	
Site:	. 1	Sec 29 T26S R32E Wilder Federal 29 #1H					North Reference:				rid					
Nell:	· 1						Survey Calculation Method:			. М	inimum (Curvature	Э			
Wellbore:						. 1		,								
Design:		Design #5					•			·]						
Planned Surv	vey	,	· · ·	ء نو مور - م بر منیت						···· · ·	· · · ·	÷.,			: "1	•
Measu	ured				Vertical	•			Vertical	. D	ogleg	Buil	Ìd .	Tur	n	,
Dept , (usf		nclination (°)	Azimu (°)	th	Depth (usft)	+Ń/-9 (usft		+E/-W (usft)	Section (usft)		Rate 00usft)	Rat (°/100)		Rat (°/100		
12,9	0000	89.42	178	3 96	9,259 9	-3,9	796	72.0	3,980.2		0.00	-	0.00	-	0 00	
13,0	0.000	89.42	178	3 96	9,260.9	-4,0	79.6	73.8	4,080 2		0 00		0.00		0 00	
13,1	0 00	89.42	178	3.96	9,261 9	-4,1	79 5	75.6	4,180 2		0 00		0.00		0.00	
	200 0	89.42		3 96	9,262.9		79 5	77.4	4,280 2		0.00		0.00		0.00	
	300 0	89.42		3.96	9,263 9	-4,3		79.2	4,380.2		0.00		0.00		0 00	
	100 0	89.42		3 96	9,264 9	-4,4	79.5	81.0	4,480 2		0.00		0 00		0 00	
	9 13411 10 6	MD / 9265' 89.42		3 96	9,265.0	-4,4	90.1	81 2	4,490 8		0 00		0 00		0.00	
Design Targe	ote		۰ <i>۲ ـ</i> -	• •	- <i>:</i> ,	. .	·····	• • • •		. •					^ + I	· •.
			o .			-	-	• •	•		-		• •	•		
Target Name - hit/miss f - Shape		Dip Angle (°)	Dip Dir (°)	. TV (us			+E/-W (usft)	Northi (usft		asting (usft))	Latitu	de	Le	ongitude	,
- hit/miss f - Shape PBHL Wilder I - plan hits	target Federal target c	(°) 90 58	(°) 178.9	(us 6 9,2	ft) (us		14	(usft)		· · ·	·~ ~ ~ ~		·	2 0.9 gitude 41' 26.5	***
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- hit/miss t - Shape PBHL Wilder I - plan hits - Rectang	target Federal target c le (sides	(°) 90 58 enter W100 0 H5	(°) 178.9 0.0 D3,7	(us 6 9,2	ft) (us	ft)	(usft)	(usft)	(usft)	· · ·	·~ ~ ~ ~	5 008 N	·	···· - ·	***
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- Item Description
 - Rotating Head, 13-5/8" 1
 - Fill up Line and Valve 2A
 - Flow Line (10") 2B
 - 2C Shale Shakers and Solids Settling Tank
 - 2D Cuttings Bins for Zero Discharge
 - Mud Gas Separator with vent line to flare and return line to mud system 2E
 - 3 Annular BOP (13-5/8", 5M)
 - Single Ram (13-3/8", 5M, equipped with Blind Rams) 4A
 - 4B Drilling Spool (13-3/8" 5M)
 - 4C Single Ram (13-3/8", 5M, equipped with Pipe Rams)
 - 5 Kill Line (3", 5000 psi WP, steel line) (not a flexible line)
 - 6
 - Kill Line Valve, Inner (3-1/8", 5000 psi WP) Kill Line Valve, Outer (3-1/8", 5000 psi WP, Hydraulically Operated) 7
 - Kill Line Check Valve (3-1/8", 5000 psi WP) 8
 - Choke Line (3", 5000 psi WP, steel line) (not a flexible line) 9
 - 10 Choke Line Valve, Inner (3-1/8", 5000 psi WP)
 - 11 Choke Line Valve, Outer, (Hydraulically operated, 3-1/8", 5000 psi WP)
 - Spacer Spool (13-3/8", 5M, with rotating bottom flange) 12
 - Casing Head (11", 5M) 13
 - Ball Valve and Threaded Nipple on Casing Head Outlet, 2" 5M 14
 - 15 Surface Casing

Drawn by Steven O Moore, Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company, 29-May-2012

CHOKE MANIFOLD ARRANGEMENT 3M System per Onshore Oil and Gas Order No 2 utilizing 5M Equipment



All Tees must be targeted

- Description ltem
 - Manual Adjustable Choke, 3-1/8", 5M 1
 - Manual Adjustable Choke, 3-1/8", 5M 2
 - 3 Gate Valve, 2-1/16" 5M
 - 4 Gate Valve, 3-1/8" 5M
 - 5 Gate Valve, 3-1/8" 5M
 - 6 Gate Valve, 3-1/8" 5M
 - 7 Gate Valve, 3-1/8" 5M
 - Gate Valve, 3-1/8" 5M 8
 - Gate Valve, 3-1/8" 5M 9
 - 10
 - Gate Valve, 3-1/8" 5M
 - 11 Gate Valve, 3-1/8" 5M
 - 12 Pressure Gauge
 - 2" hammer union tie-in point for BOP Tester 13

We will test each valve to 3000 psi from the upstream side

Drawn by Steven O Moore Chief Drilling Engineer, Mid-Continent Business Unit, ConocoPhillips Company Date 29-May-2012





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

Well: Wilder Federal 29 #1H

Date: March 19, 2012

4

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 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's 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 a fresh water pond.

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:

Controlled Recovery 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 CRI is R9166

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 Controlled Recovery 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, PO Box 1869 Eunice, NM 88231 Phone Number 575 394 2545, Facility located at Hwy 18, Mile Marker 19, Eunice, NM.

Luis Serrano Drilling Engineer

ConocoPhillips Company, 600 North Dairy Ashford, Room #2WL-13016, Houston, TX 77079-1175 Office: 832-486-2346

SPECIFICATIONS	Heavy	Duty	Split	Metal	Rolling	Lid
 FLOOR 1 3/16' IPL one piece CROSSIMEMBER: 3:x 4:1 channel 16' on center WALLS: 3/16' IPL solid welded with tubing top linsi de liner flooks. DOOR 3/16' IPL solid welded with tubing top linsi de liner flooks. DOOR 3/16' IPL solid welded with tubing top linsi de liner flooks. DOOR 3/16' IPL solid welded with tubing top linsi de liner flooks. DOOR 3/16' IPL solid welded with tubing top linsi de liner flooks. DOOR 3/16' IPL solid welded with 12' x 6' x 1/4' rais, gusset at each crossmember WHEELS: 10 DIA x 9'long with rease fittings DOOR LATCH: 3 Independent ratchet binders with chains; vertical second latch (GASKEITS: Extruded rubber seal with metal retainers) WELDS: All welds continuous except sub- structur ecrossmembers FINISH Coated linside and fout with direct to metal; rust inhibiting acrylic enamel color/coat HYDROTESTING: Full capacity static test DIMEN SIONS: 22-11' long (21' 8' inside); 99' wide (88' inside), see drawing for height OPTIONS: Steel grit blast and special paint Ampliroll, Heil and Dino pickup ROOF, 3/16' 'PL' roof panels with tubing and channel support frame. IDS: - (2) 68' x 90'' metalirolling lids spring loaded: self raising ROULERS: 4''V-groove rollers with delinh bearings and grease fittings OPENING: (2):00'' x 82'' openings with'8'' divider centered on 		CON 20 YI 25 YI 30 YI	D 41 D 53	B 53 65 77		
container LATCH!:(2).independent ratchet/binders.with chains. perdid GASKETS: Extruded.rubber seal with metal/relainers						
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Lid

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