

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011
Permit 182329

HOBBS OCD

MAR 04 2014

RECEIVED

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CONOCOPHILLIPS COMPANY 600 North Dairy Ashford Rd. P10-4056 Houston, Texas 77079		2. OGRID Number 217817
		3. API Number 30-026-41706
4. Property Code 40437	5. Property Name RED HILLS WEST 16 STATE TC	6. Well No. 12H

7. Surface Location

UL - Lot A	Section 16	Township 26S	Range 32E	Lot Idn	Feet From 349	N/S Line N	Feet From 330	E/W Line E	County LEA
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8. Proposed Bottom Hole Location

UL - Lot P	Section 16	Township 26S	Range 32E	Lot Idn	Feet From 330	N/S Line S	Feet From 380	E/W Line E	County Lea
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9. Pool Information

~~WILDCAT BONE SPRING~~ **Jennings; Upper Bone Spring Shale** **097838**

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3222
16. Multiple N	17. Proposed Depth 15390	18. Formation Bone Spring	19. Contractor	20. Spud Date 11/13/2014
Depth to Ground water 405ft.		Distance from nearest fresh water well 1.8 miles		Distance to nearest surface water 1.8 miles

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	950	780	0
Int1	12.25	9.625	40	4625	1800	0
Prod	8.75	5.5	17	15370	2000	4125

Casing/Cement Program: Additional Comments

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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	25000	HYDRIL
Blind	10000	5000	CAMERON
Pipe	10000	5000	CAMERON

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature: *Kristina Mickens*

Printed Name: KRISTINA MICKENS

Title: REGULATORY SPECIALIST

Email Address: Kristina.Mickens@conocophillips.com

Date: 02/28/2014

Phone: 281-206-5282

OIL CONSERVATION DIVISION

Approved By: *[Signature]*

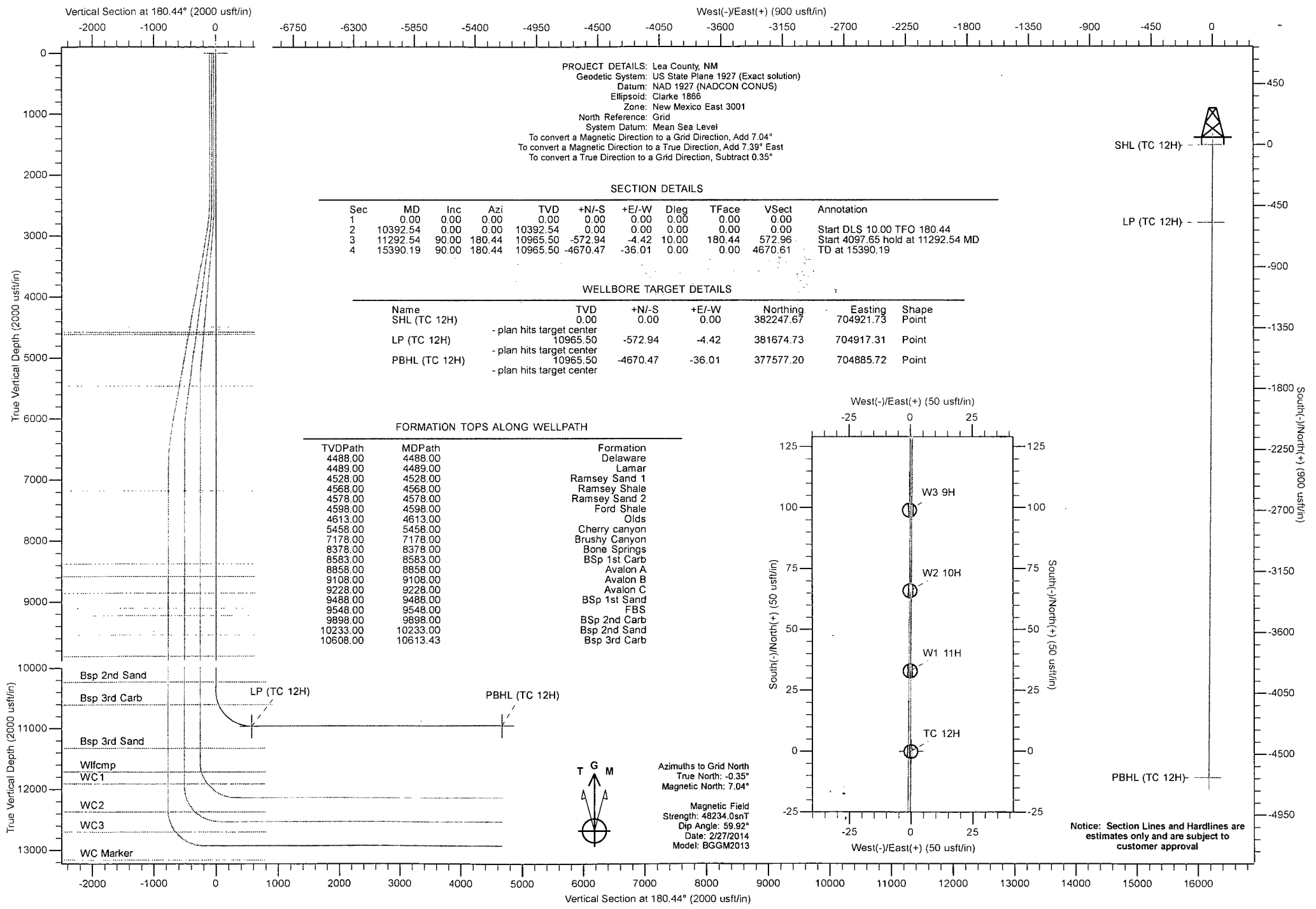
Title:

Approved Date: *03/05/14*

Expiration Date: *03/05/16*

Conditions of Approval Attached

MAR 06 2014 PM



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TC 12H
Company:	ConocoPhillips	TVD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Project:	Lea County, NM	MD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	TC 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Project:	Lea County, NM	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Red Hills West 16 State		
Site Position:		Northing:	382,247.67 usft
From:	Map	Easting:	704,921.73 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 2' 57.08 N
		Longitude:	103° 40' 18.97 W
		Grid Convergence:	0.35 °

Well	TC 12H					
Well Position	+N-S	0.00 usft	Northing:	382,247.67 usft	Latitude:	32° 2' 57.08 N
	+E-W	0.00 usft	Easting:	704,921.73 usft	Longitude:	103° 40' 18.97 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,222.00 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/27/2014	7.39	59.92	48,234

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	180.44

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,392.54	0.00	0.00	10,392.54	0.00	0.00	0.00	0.00	0.00	0.00	
11,292.54	90.00	180.44	10,965.50	-572.94	-4.42	10.00	10.00	-19.95	180.44	
15,390.19	90.00	180.44	10,965.50	-4,670.47	-36.01	0.00	0.00	0.00	0.00	PBHL (TC 12H)

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Project:	Lea County, NM	MD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	TC 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
SHL (TC 12H)										
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
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	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,488.00	0.00	0.00	4,488.00	0.00	0.00	0.00	0.00	0.00	0.00	
Delaware										
4,489.00	0.00	0.00	4,489.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lamar										
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,528.00	0.00	0.00	4,528.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ramsey Sand 1										
4,568.00	0.00	0.00	4,568.00	0.00	0.00	0.00	0.00	0.00	0.00	

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Wellbore:	Original Hole		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Ramsey Shale									
4,578.00	0.00	0.00	4,578.00	0.00	0.00	0.00	0.00	0.00	0.00
Ramsey Sand 2									
4,598.00	0.00	0.00	4,598.00	0.00	0.00	0.00	0.00	0.00	0.00
Ford Shale									
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,613.00	0.00	0.00	4,613.00	0.00	0.00	0.00	0.00	0.00	0.00
Olds									
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,458.00	0.00	0.00	5,458.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry canyon									
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,178.00	0.00	0.00	7,178.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,378.00	0.00	0.00	8,378.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Springs									
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00

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Well:	TC 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,583.00	0.00	0.00	8,583.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSp 1st Carb										
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,858.00	0.00	0.00	8,858.00	0.00	0.00	0.00	0.00	0.00	0.00	
Avalon A										
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,108.00	0.00	0.00	9,108.00	0.00	0.00	0.00	0.00	0.00	0.00	
Avalon B										
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,228.00	0.00	0.00	9,228.00	0.00	0.00	0.00	0.00	0.00	0.00	
Avalon C										
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,488.00	0.00	0.00	9,488.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSp 1st Sand										
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,548.00	0.00	0.00	9,548.00	0.00	0.00	0.00	0.00	0.00	0.00	
FBS										
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,898.00	0.00	0.00	9,898.00	0.00	0.00	0.00	0.00	0.00	0.00	
BSp 2nd Carb										
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,233.00	0.00	0.00	10,233.00	0.00	0.00	0.00	0.00	0.00	0.00	
Bsp 2nd Sand										
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,392.54	0.00	0.00	10,392.54	0.00	0.00	0.00	0.00	0.00	0.00	
Start DLS 10.00 TFO 180.44										
10,400.00	0.75	180.44	10,400.00	-0.05	0.00	0.05	10.00	10.00	0.00	
10,450.00	5.75	180.44	10,449.90	-2.88	-0.02	2.88	10.00	10.00	0.00	
10,500.00	10.75	180.44	10,499.37	-10.05	-0.08	10.05	10.00	10.00	0.00	
10,550.00	15.75	180.44	10,548.03	-21.50	-0.17	21.50	10.00	10.00	0.00	
10,600.00	20.75	180.44	10,595.50	-37.15	-0.29	37.15	10.00	10.00	0.00	
10,613.43	22.09	180.44	10,608.00	-42.05	-0.32	42.06	10.00	10.00	0.00	
Bsp 3rd Carb										
10,650.00	25.75	180.44	10,641.42	-56.88	-0.44	56.88	10.00	10.00	0.00	
10,700.00	30.75	180.44	10,685.46	-80.53	-0.62	80.53	10.00	10.00	0.00	
10,750.00	35.75	180.44	10,727.26	-107.93	-0.83	107.94	10.00	10.00	0.00	
10,800.00	40.75	180.44	10,766.51	-138.88	-1.07	138.88	10.00	10.00	0.00	
10,850.00	45.75	180.44	10,802.92	-173.12	-1.33	173.12	10.00	10.00	0.00	
10,900.00	50.75	180.44	10,836.21	-210.41	-1.62	210.41	10.00	10.00	0.00	
10,950.00	55.75	180.44	10,866.12	-250.45	-1.93	250.46	10.00	10.00	0.00	
11,000.00	60.75	180.44	10,892.42	-292.96	-2.26	292.96	10.00	10.00	0.00	
11,050.00	65.75	180.44	10,914.92	-337.59	-2.60	337.60	10.00	10.00	0.00	
11,100.00	70.75	180.44	10,933.45	-384.01	-2.96	384.02	10.00	10.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TC 12H
Company:	ConocoPhillips	TVD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Project:	Lea County, NM	MD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	TC 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,150.00	75.75	180.44	10,947.86	-431.87	-3.33	431.88	10.00	10.00	0.00
11,200.00	80.75	180.44	10,958.04	-480.81	-3.71	480.82	10.00	10.00	0.00
11,250.00	85.75	180.44	10,963.92	-530.44	-4.09	530.46	10.00	10.00	0.00
11,292.54	90.00	180.44	10,965.50	-572.94	-4.42	572.96	10.00	10.00	0.00
Start 4097.65 hold at 11292.54 MD - LP (TC 12H)									
11,300.00	90.00	180.44	10,965.50	-580.40	-4.47	580.42	0.00	0.00	0.00
11,400.00	90.00	180.44	10,965.50	-680.40	-5.25	680.42	0.00	0.00	0.00
11,500.00	90.00	180.44	10,965.50	-780.40	-6.02	780.42	0.00	0.00	0.00
11,600.00	90.00	180.44	10,965.50	-880.39	-6.79	880.42	0.00	0.00	0.00
11,700.00	90.00	180.44	10,965.50	-980.39	-7.56	980.42	0.00	0.00	0.00
11,800.00	90.00	180.44	10,965.50	-1,080.39	-8.33	1,080.42	0.00	0.00	0.00
11,900.00	90.00	180.44	10,965.50	-1,180.38	-9.10	1,180.42	0.00	0.00	0.00
12,000.00	90.00	180.44	10,965.50	-1,280.38	-9.87	1,280.42	0.00	0.00	0.00
12,100.00	90.00	180.44	10,965.50	-1,380.38	-10.64	1,380.42	0.00	0.00	0.00
12,200.00	90.00	180.44	10,965.50	-1,480.37	-11.41	1,480.42	0.00	0.00	0.00
12,300.00	90.00	180.44	10,965.50	-1,580.37	-12.18	1,580.42	0.00	0.00	0.00
12,400.00	90.00	180.44	10,965.50	-1,680.37	-12.96	1,680.42	0.00	0.00	0.00
12,500.00	90.00	180.44	10,965.50	-1,780.37	-13.73	1,780.42	0.00	0.00	0.00
12,600.00	90.00	180.44	10,965.50	-1,880.36	-14.50	1,880.42	0.00	0.00	0.00
12,700.00	90.00	180.44	10,965.50	-1,980.36	-15.27	1,980.42	0.00	0.00	0.00
12,800.00	90.00	180.44	10,965.50	-2,080.36	-16.04	2,080.42	0.00	0.00	0.00
12,900.00	90.00	180.44	10,965.50	-2,180.35	-16.81	2,180.42	0.00	0.00	0.00
13,000.00	90.00	180.44	10,965.50	-2,280.35	-17.58	2,280.42	0.00	0.00	0.00
13,100.00	90.00	180.44	10,965.50	-2,380.35	-18.35	2,380.42	0.00	0.00	0.00
13,200.00	90.00	180.44	10,965.50	-2,480.34	-19.12	2,480.42	0.00	0.00	0.00
13,300.00	90.00	180.44	10,965.50	-2,580.34	-19.89	2,580.42	0.00	0.00	0.00
13,400.00	90.00	180.44	10,965.50	-2,680.34	-20.67	2,680.42	0.00	0.00	0.00
13,500.00	90.00	180.44	10,965.50	-2,780.34	-21.44	2,780.42	0.00	0.00	0.00
13,600.00	90.00	180.44	10,965.50	-2,880.33	-22.21	2,880.42	0.00	0.00	0.00
13,700.00	90.00	180.44	10,965.50	-2,980.33	-22.98	2,980.42	0.00	0.00	0.00
13,800.00	90.00	180.44	10,965.50	-3,080.33	-23.75	3,080.42	0.00	0.00	0.00
13,900.00	90.00	180.44	10,965.50	-3,180.32	-24.52	3,180.42	0.00	0.00	0.00
14,000.00	90.00	180.44	10,965.50	-3,280.32	-25.29	3,280.42	0.00	0.00	0.00
14,100.00	90.00	180.44	10,965.50	-3,380.32	-26.06	3,380.42	0.00	0.00	0.00
14,200.00	90.00	180.44	10,965.50	-3,480.32	-26.83	3,480.42	0.00	0.00	0.00
14,300.00	90.00	180.44	10,965.50	-3,580.31	-27.60	3,580.42	0.00	0.00	0.00
14,400.00	90.00	180.44	10,965.50	-3,680.31	-28.38	3,680.42	0.00	0.00	0.00
14,500.00	90.00	180.44	10,965.50	-3,780.31	-29.15	3,780.42	0.00	0.00	0.00
14,600.00	90.00	180.44	10,965.50	-3,880.30	-29.92	3,880.42	0.00	0.00	0.00
14,700.00	90.00	180.44	10,965.50	-3,980.30	-30.69	3,980.42	0.00	0.00	0.00
14,800.00	90.00	180.44	10,965.50	-4,080.30	-31.46	4,080.42	0.00	0.00	0.00
14,900.00	90.00	180.44	10,965.50	-4,180.29	-32.23	4,180.42	0.00	0.00	0.00
15,000.00	90.00	180.44	10,965.50	-4,280.29	-33.00	4,280.42	0.00	0.00	0.00
15,100.00	90.00	180.44	10,965.50	-4,380.29	-33.77	4,380.42	0.00	0.00	0.00
15,200.00	90.00	180.44	10,965.50	-4,480.29	-34.54	4,480.42	0.00	0.00	0.00
15,300.00	90.00	180.44	10,965.50	-4,580.28	-35.31	4,580.42	0.00	0.00	0.00
15,390.19	90.00	180.44	10,965.50	-4,670.47	-36.01	4,670.61	0.00	0.00	0.00
TD at 15390.19 - PBHL (TC 12H)									

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well TC 12H
Company:	ConocoPhillips	TVD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Project:	Lea County, NM	MD Reference:	Well @ 3247.00usft (RKB: 25' + GL: 3222')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	TC 12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
SHL (TC 12H)	0.00	0.00	0.00	0.00	0.00	382,247.67	704,921.73	32° 2' 57.08 N	103° 40' 18.97 W
- plan hits target center									
- Point									
PBHL (TC 12H)	0.00	0.00	10,965.50	-4,670.47	-36.01	377,577.20	704,885.72	32° 2' 10.86 N	103° 40' 19.72 W
- plan hits target center									
- Point									
LP (TC 12H)	0.00	0.00	10,965.50	-572.94	-4.42	381,674.73	704,917.31	32° 2' 51.41 N	103° 40' 19.07 W
- plan hits target center									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
4,488.00	4,488.00	Delaware		0.00	0.00
4,489.00	4,489.00	Lamar		0.00	0.00
4,528.00	4,528.00	Ramsey Sand 1		0.00	0.00
4,568.00	4,568.00	Ramsey Shale		0.00	0.00
4,578.00	4,578.00	Ramsey Sand 2		0.00	0.00
4,598.00	4,598.00	Ford Shale		0.00	0.00
4,613.00	4,613.00	Olds		0.00	0.00
5,458.00	5,458.00	Cherry canyon		0.00	0.00
7,178.00	7,178.00	Brushy Canyon		0.00	0.00
8,378.00	8,378.00	Bone Springs		0.00	0.00
8,583.00	8,583.00	BSp 1st Carb		0.00	0.00
8,858.00	8,858.00	Avalon A		0.00	0.00
9,108.00	9,108.00	Avalon B		0.00	0.00
9,228.00	9,228.00	Avalon C		0.00	0.00
9,488.00	9,488.00	BSp 1st Sand		0.00	0.00
9,548.00	9,548.00	FBS		0.00	0.00
9,898.00	9,898.00	BSp 2nd Carb		0.00	0.00
10,233.00	10,233.00	Bsp 2nd Sand		0.00	0.00
10,613.43	10,608.00	Bsp 3rd Carb		0.00	0.00

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
10,392.54	10,392.54	0.00	0.00	Start DLS 10.00 TFO 180.44
11,292.54	10,965.50	-572.94	-4.42	Start 4097.65 hold at 11292.54 MD
15,390.19	10,965.50	-4,670.47	-36.01	TD at 15390.19

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

ConocoPhillips Company
Well: Red Hills West 16 State TC 12H
Location: Sec. 16, T26S, R32E
Date: 2/28/2014

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

1. We propose to use a closed loop system with steel pits, haul-off bins, and frac tanks for containing all cuttings, solids, mud, water, brine, and liquids. We will not dig a pit, nor will we use a drying pad, nor will we build an earth pit above ground level, nor will we dispose of or bury any waste on location.

All drilling waste and all drilling fluids (fresh water, brine, mud, cuttings, drill solids, cement returns, and any other liquid or solid that may be involved) will be contained on location in the rig's steel pits or in haul-off bins or in frac tanks as needed. The intent is as follows:

- We propose to use the rigs' steel pits for containing and maintaining the drilling fluids.
- We propose to remove cuttings and drilled solids from the mud by using solids control equipment and to contain such cuttings and drilled solids on location in haul-off bins.
- We propose that any excess water that may need to be stored on location will be stored in tanks.

The closed loop system components will be inspected daily by each tour and any needed repairs will be made immediately. Any leak in the system will be repaired immediately, and any spilled liquids and/or solids will be cleaned immediately, and the area where any such spill occurred will be remediated immediately.

2. Cuttings and solids will be removed from location in haul-off bins by an authorized contractor and disposed of at an authorized facility. For this well, we propose the following disposal facility:

R-360 Inc.
4507 West Carlsbad Hwy, Hobbs, NM 88240,
P.O. Box 388; Hobbs, New Mexico 88241
Toll Free Phone: 877.505.4274, Local Phone Number: 432.638.4076

The physical address for the plant where the disposal facility is located is Highway 62/180 at mile marker 66 (33 miles East of Hobbs, NM and 32 miles West of Carlsbad, NM).

The Permit Number for R-360 is NM-01-0006.

A photograph showing the type of haul-off bins that will be used is attached.

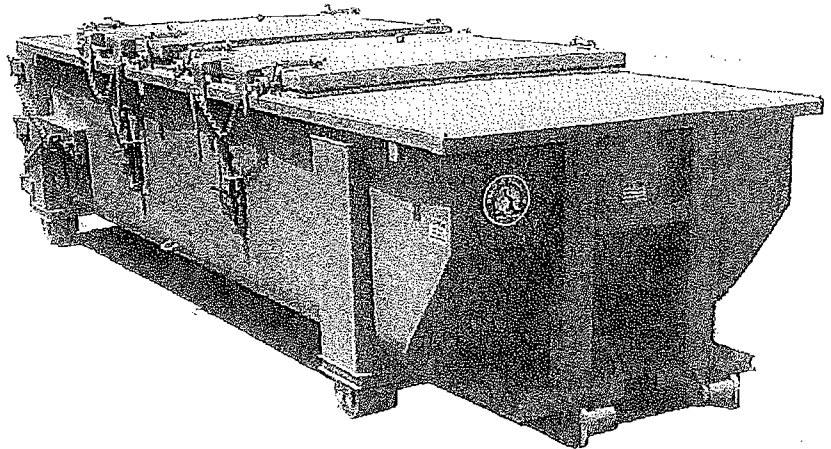
3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - Nabors Well Services Company, 3221 NW County Rd; Hobbs, NM 88240, PO 5208 Hobbs, NM, 88241, Permit SWD 092. (Well Location: **Section 3, T19S R37E**)
 - Basic Energy Services, P.O. Box 1869; Eunice, NM 88231 Phone Number: 575.394.2545, Facility located at Hwy 18, Mile Marker 19; Eunice, NM.

Jason Levinson
Drilling Engineer
Office: 281-206-5334
Cell: 281-682-2783

SPECIFICATIONS

Heavy Duty Split Metal Rolling Lid

FLOOR: 3/16" PL one piece
 CROSS MEMBER: 3 x 4.1 channel 16" on center
 WALLS: 3/16" PL solid welded with tubing top, inside 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, gusset 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 metal retainers
 WELDS: All welds continuous except sub-structure crossmembers
 FINISH: Coated inside and out with direct to metal, rust inhibiting acrylic enamel color coat
 HYDROTESTING: Full capacity static test
 DIMENSIONS: 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
 LIDS: (2) 68" x 90" metal rolling lids spring loaded, self raising
 ROLLERS: 4" V-groove rollers with delrin bearings and grease fittings
 OPENING: (2) 60" x 82" openings with 8" divider centered on container
 LATCH: (2) independent ratchet binders with chains per lid
 GASKETS: Extruded rubber seal with metal retainers



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

