

District I1625 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 182341

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, TX 77079		2. OGRID Number 217817
4. Property Code 40439		3. API Number 30-025-41708
5. Property Name RED HILLS WEST 16 STAE W2		6. Well No. 10H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
A	16	26S	32E		283	N	330	E	LEA

8. Proposed Bottom Hole Location

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

9. Pool Information

WOLECAMP	WC-025 G-09 5263216 A; WOLF CAMP	98065
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3224
16. Multiple N	17. Proposed Depth 17493	18. Formation Wolfcamp	19. Contractor	20. Spud Date 8/27/2014
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	4605	1800	0
Int2	8.75	7.625	29.7	12100	640	4105
Prod	6.75	5.5	23	12100	N/A	N/A
Prod	6.75	4.5	15.1	17470	370	12100

Casing/Cement Program: Additional Comments

The Production casing is a tapered string of 5-1/2" x 4-1/2" casing with a cross-over at the shoe of the 7-5/8" intermediate string at 12100ft. The string will be cemented from TD to the shoe of that string.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	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:

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:

Title:

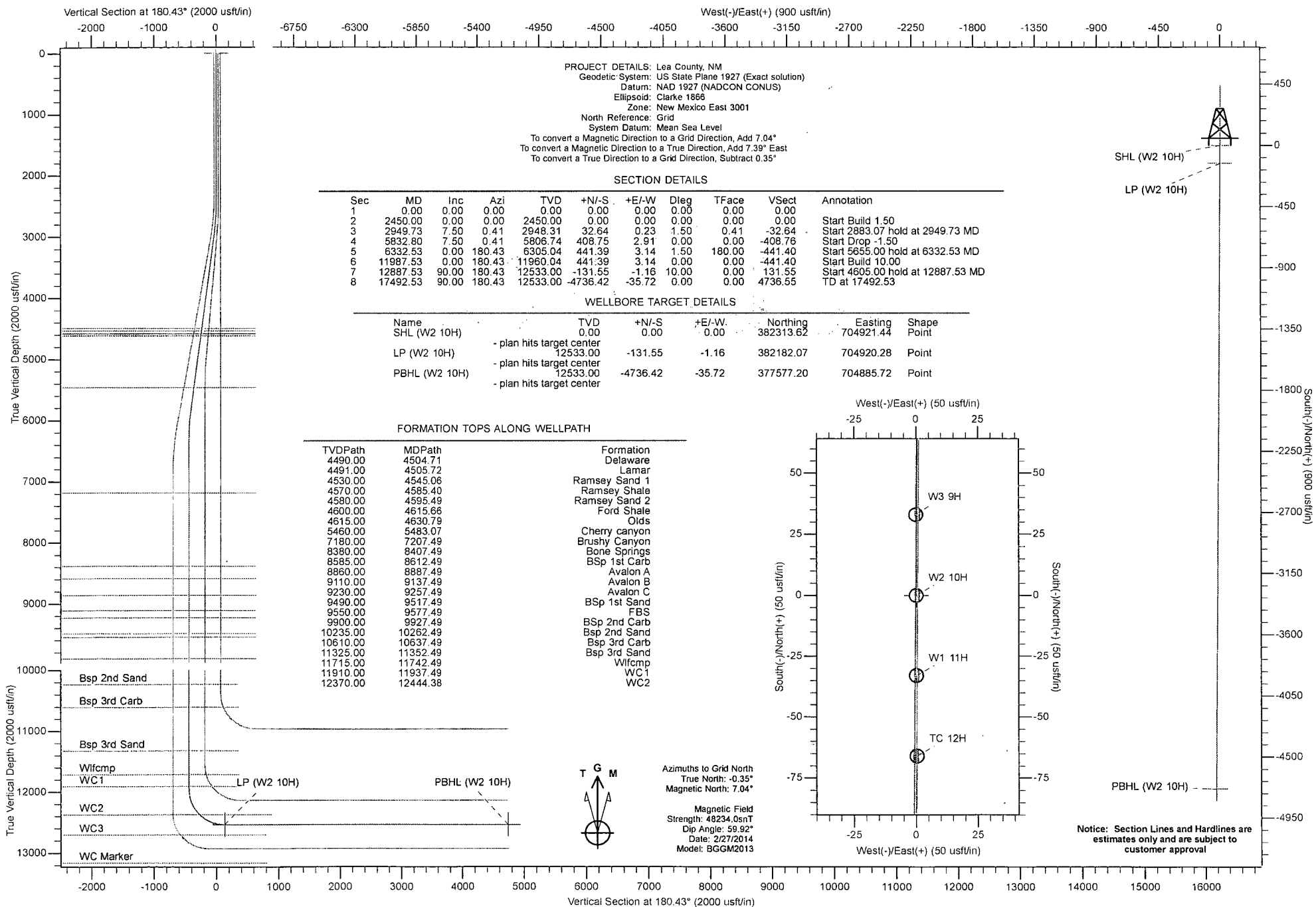
Approved Date: 03/05/14

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 W2 10H
Company:	ConocoPhillips	TVD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Project	Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
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	W2 10H		
Well Position	+N/-S	65.95 usft	Northing: 382,313.62 usft
	+E/-W	-0.29 usft	Easting: 704,921.44 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 2' 57.73 N
		Longitude:	103° 40' 18.97 W
		Ground Level:	3,224.00 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
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			180.43

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,450.00	0.00	0.00	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,949.73	7.50	0.41	2,948.31	32.64	0.23	1.50	1.50	0.00	0.41	
5,832.80	7.50	0.41	5,806.74	408.75	2.91	0.00	0.00	0.00	0.00	
6,332.53	0.00	180.43	6,305.04	441.39	3.14	1.50	-1.50	0.00	180.00	
11,987.53	0.00	180.43	11,960.04	441.39	3.14	0.00	0.00	0.00	0.00	
12,887.53	90.00	180.43	12,533.00	-131.55	-1.16	10.00	10.00	0.00	0.00	
17,492.53	90.00	180.43	12,533.00	-4,736.42	-35.72	0.00	0.00	0.00	0.00	PBHL (W2 10H)

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W2 10H
Company:	ConocoPhillips	TVD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	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 (W2 10H)									
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
2,450.00	0.00	0.00	2,450.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50									
2,500.00	0.75	0.41	2,500.00	0.33	0.00	-0.33	1.50	1.50	0.00
2,600.00	2.25	0.41	2,599.96	2.94	0.02	-2.94	1.50	1.50	0.00
2,700.00	3.75	0.41	2,699.82	8.18	0.06	-8.18	1.50	1.50	0.00
2,800.00	5.25	0.41	2,799.51	16.02	0.11	-16.02	1.50	1.50	0.00
2,900.00	6.75	0.41	2,898.96	26.48	0.19	-26.48	1.50	1.50	0.00
2,949.73	7.50	0.41	2,948.31	32.64	0.23	-32.64	1.50	1.50	0.00
Start 2883.07 hold at 2949.73 MD									
3,000.00	7.50	0.41	2,998.15	39.20	0.28	-39.20	0.00	0.00	0.00
3,100.00	7.50	0.41	3,097.29	52.25	0.37	-52.25	0.00	0.00	0.00
3,200.00	7.50	0.41	3,196.44	65.29	0.46	-65.29	0.00	0.00	0.00
3,300.00	7.50	0.41	3,295.58	78.34	0.56	-78.34	0.00	0.00	0.00
3,400.00	7.50	0.41	3,394.73	91.38	0.65	-91.38	0.00	0.00	0.00
3,500.00	7.50	0.41	3,493.87	104.43	0.74	-104.43	0.00	0.00	0.00
3,600.00	7.50	0.41	3,593.02	117.47	0.84	-117.48	0.00	0.00	0.00
3,700.00	7.50	0.41	3,692.16	130.52	0.93	-130.52	0.00	0.00	0.00
3,800.00	7.50	0.41	3,791.31	143.56	1.02	-143.57	0.00	0.00	0.00
3,900.00	7.50	0.41	3,890.45	156.61	1.11	-156.61	0.00	0.00	0.00
4,000.00	7.50	0.41	3,989.60	169.65	1.21	-169.66	0.00	0.00	0.00
4,100.00	7.50	0.41	4,088.75	182.70	1.30	-182.70	0.00	0.00	0.00
4,200.00	7.50	0.41	4,187.89	195.74	1.39	-195.75	0.00	0.00	0.00
4,300.00	7.50	0.41	4,287.04	208.79	1.49	-208.79	0.00	0.00	0.00
4,400.00	7.50	0.41	4,386.18	221.83	1.58	-221.84	0.00	0.00	0.00
4,500.00	7.50	0.41	4,485.33	234.88	1.67	-234.89	0.00	0.00	0.00
4,504.71	7.50	0.41	4,490.00	235.50	1.68	-235.50	0.00	0.00	0.00
Delaware									
4,505.72	7.50	0.41	4,491.00	235.63	1.68	-235.63	0.00	0.00	0.00

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Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	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)
Lamar									
4,545.06	7.50	0.41	4,530.00	240.76	1.71	-240.76	0.00	0.00	0.00
Ramsey Sand 1									
4,585.40	7.50	0.41	4,570.00	246.02	1.75	-246.03	0.00	0.00	0.00
Ramsey Shale									
4,595.49	7.50	0.41	4,580.00	247.34	1.76	-247.34	0.00	0.00	0.00
Ramsey Sand 2									
4,600.00	7.50	0.41	4,584.47	247.93	1.76	-247.93	0.00	0.00	0.00
4,615.66	7.50	0.41	4,600.00	249.97	1.78	-249.97	0.00	0.00	0.00
Ford Shale									
4,630.79	7.50	0.41	4,615.00	251.94	1.79	-251.95	0.00	0.00	0.00
Olds									
4,700.00	7.50	0.41	4,683.62	260.97	1.86	-260.98	0.00	0.00	0.00
4,800.00	7.50	0.41	4,782.76	274.02	1.95	-274.02	0.00	0.00	0.00
4,900.00	7.50	0.41	4,881.91	287.06	2.04	-287.07	0.00	0.00	0.00
5,000.00	7.50	0.41	4,981.05	300.11	2.13	-300.11	0.00	0.00	0.00
5,100.00	7.50	0.41	5,080.20	313.15	2.23	-313.16	0.00	0.00	0.00
5,200.00	7.50	0.41	5,179.34	326.20	2.32	-326.21	0.00	0.00	0.00
5,300.00	7.50	0.41	5,278.49	339.24	2.41	-339.25	0.00	0.00	0.00
5,400.00	7.50	0.41	5,377.64	352.29	2.51	-352.30	0.00	0.00	0.00
5,483.07	7.50	0.41	5,460.00	363.13	2.58	-363.13	0.00	0.00	0.00
Cherry canyon									
5,500.00	7.50	0.41	5,476.78	365.33	2.60	-365.34	0.00	0.00	0.00
5,600.00	7.50	0.41	5,575.93	378.38	2.69	-378.39	0.00	0.00	0.00
5,700.00	7.50	0.41	5,675.07	391.42	2.78	-391.43	0.00	0.00	0.00
5,800.00	7.50	0.41	5,774.22	404.47	2.88	-404.48	0.00	0.00	0.00
5,832.80	7.50	0.41	5,806.74	408.75	2.91	-408.76	0.00	0.00	0.00
Start Drop -1.50									
5,900.00	6.49	0.41	5,873.44	416.93	2.97	-416.94	1.50	-1.50	0.00
6,000.00	4.99	0.41	5,972.93	426.93	3.04	-426.94	1.50	-1.50	0.00
6,100.00	3.49	0.41	6,072.66	434.32	3.09	-434.33	1.50	-1.50	0.00
6,200.00	1.99	0.41	6,172.54	439.09	3.12	-439.10	1.50	-1.50	0.00
6,300.00	0.49	0.41	6,272.51	441.25	3.14	-441.26	1.50	-1.50	0.00
6,332.53	0.00	180.43	6,305.04	441.39	3.14	-441.40	1.50	-1.50	0.00
Start 5655.00 hold at 6332.53 MD									
6,400.00	0.00	0.00	6,372.51	441.39	3.14	-441.40	0.00	0.00	0.00
6,500.00	0.00	0.00	6,472.51	441.39	3.14	-441.40	0.00	0.00	0.00
6,600.00	0.00	0.00	6,572.51	441.39	3.14	-441.40	0.00	0.00	0.00
6,700.00	0.00	0.00	6,672.51	441.39	3.14	-441.40	0.00	0.00	0.00
6,800.00	0.00	0.00	6,772.51	441.39	3.14	-441.40	0.00	0.00	0.00
6,900.00	0.00	0.00	6,872.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,000.00	0.00	0.00	6,972.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,100.00	0.00	0.00	7,072.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,200.00	0.00	0.00	7,172.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,207.49	0.00	0.00	7,180.00	441.39	3.14	-441.40	0.00	0.00	0.00
Brushy Canyon									
7,300.00	0.00	0.00	7,272.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,400.00	0.00	0.00	7,372.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,500.00	0.00	0.00	7,472.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,600.00	0.00	0.00	7,572.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,700.00	0.00	0.00	7,672.51	441.39	3.14	-441.40	0.00	0.00	0.00
7,800.00	0.00	0.00	7,772.51	441.39	3.14	-441.40	0.00	0.00	0.00

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Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	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)
7,900.00	0.00	0.00	7,872.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,000.00	0.00	0.00	7,972.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,100.00	0.00	0.00	8,072.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,200.00	0.00	0.00	8,172.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,300.00	0.00	0.00	8,272.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,400.00	0.00	0.00	8,372.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,407.49	0.00	0.00	8,380.00	441.39	3.14	-441.40	0.00	0.00	0.00
Bone Springs									
8,500.00	0.00	0.00	8,472.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,600.00	0.00	0.00	8,572.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,612.49	0.00	0.00	8,585.00	441.39	3.14	-441.40	0.00	0.00	0.00
BSp 1st Carb									
8,700.00	0.00	0.00	8,672.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,800.00	0.00	0.00	8,772.51	441.39	3.14	-441.40	0.00	0.00	0.00
8,887.49	0.00	0.00	8,860.00	441.39	3.14	-441.40	0.00	0.00	0.00
Avalon A									
8,900.00	0.00	0.00	8,872.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,000.00	0.00	0.00	8,972.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,100.00	0.00	0.00	9,072.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,137.49	0.00	0.00	9,110.00	441.39	3.14	-441.40	0.00	0.00	0.00
Avalon B									
9,200.00	0.00	0.00	9,172.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,257.49	0.00	0.00	9,230.00	441.39	3.14	-441.40	0.00	0.00	0.00
Avalon C									
9,300.00	0.00	0.00	9,272.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,400.00	0.00	0.00	9,372.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,500.00	0.00	0.00	9,472.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,517.49	0.00	0.00	9,490.00	441.39	3.14	-441.40	0.00	0.00	0.00
BSp 1st Sand									
9,577.49	0.00	0.00	9,550.00	441.39	3.14	-441.40	0.00	0.00	0.00
FBS									
9,600.00	0.00	0.00	9,572.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,700.00	0.00	0.00	9,672.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,800.00	0.00	0.00	9,772.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,900.00	0.00	0.00	9,872.51	441.39	3.14	-441.40	0.00	0.00	0.00
9,927.49	0.00	0.00	9,900.00	441.39	3.14	-441.40	0.00	0.00	0.00
BSp 2nd Carb									
10,000.00	0.00	0.00	9,972.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,100.00	0.00	0.00	10,072.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,200.00	0.00	0.00	10,172.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,262.49	0.00	0.00	10,235.00	441.39	3.14	-441.40	0.00	0.00	0.00
Bsp 2nd Sand									
10,300.00	0.00	0.00	10,272.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,400.00	0.00	0.00	10,372.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,500.00	0.00	0.00	10,472.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,600.00	0.00	0.00	10,572.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,637.49	0.00	0.00	10,610.00	441.39	3.14	-441.40	0.00	0.00	0.00
Bsp 3rd Carb									
10,700.00	0.00	0.00	10,672.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,800.00	0.00	0.00	10,772.51	441.39	3.14	-441.40	0.00	0.00	0.00
10,900.00	0.00	0.00	10,872.51	441.39	3.14	-441.40	0.00	0.00	0.00
11,000.00	0.00	0.00	10,972.51	441.39	3.14	-441.40	0.00	0.00	0.00
11,100.00	0.00	0.00	11,072.51	441.39	3.14	-441.40	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W2 10H
Company:	ConocoPhillips	TVD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224)
Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224)
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	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)	
11,200.00	0.00	0.00	11,172.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,300.00	0.00	0.00	11,272.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,352.49	0.00	0.00	11,325.00	441.39	3.14	-441.40	0.00	0.00	0.00	
Bsp 3rd Sand										
11,400.00	0.00	0.00	11,372.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,500.00	0.00	0.00	11,472.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,600.00	0.00	0.00	11,572.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,700.00	0.00	0.00	11,672.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,742.49	0.00	0.00	11,715.00	441.39	3.14	-441.40	0.00	0.00	0.00	
Wlfcmp										
11,800.00	0.00	0.00	11,772.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,900.00	0.00	0.00	11,872.51	441.39	3.14	-441.40	0.00	0.00	0.00	
11,937.49	0.00	0.00	11,910.00	441.39	3.14	-441.40	0.00	0.00	0.00	
WC1										
11,987.53	0.00	0.00	11,960.04	441.39	3.14	-441.40	0.00	0.00	0.00	
Start Build 10.00										
12,000.00	1.25	180.43	11,972.51	441.26	3.14	-441.27	10.00	10.00	0.00	
12,050.00	6.25	180.43	12,022.39	437.99	3.11	-438.00	10.00	10.00	0.00	
12,100.00	11.25	180.43	12,071.79	430.39	3.06	-430.40	10.00	10.00	0.00	
12,150.00	16.25	180.43	12,120.34	418.51	2.97	-418.52	10.00	10.00	0.00	
12,200.00	21.25	180.43	12,167.68	402.45	2.85	-402.46	10.00	10.00	0.00	
12,250.00	26.25	180.43	12,213.43	382.32	2.70	-382.33	10.00	10.00	0.00	
12,300.00	31.25	180.43	12,257.25	358.28	2.52	-358.29	10.00	10.00	0.00	
12,350.00	36.25	180.43	12,298.81	330.51	2.31	-330.52	10.00	10.00	0.00	
12,400.00	41.25	180.43	12,337.80	299.23	2.07	-299.24	10.00	10.00	0.00	
12,444.38	45.69	180.43	12,370.00	268.71	1.84	-268.71	10.00	10.00	0.00	
WC2										
12,450.00	46.25	180.43	12,373.91	264.67	1.81	-264.67	10.00	10.00	0.00	
12,500.00	51.25	180.43	12,406.86	227.09	1.53	-227.10	10.00	10.00	0.00	
12,550.00	56.25	180.43	12,436.42	186.78	1.23	-186.79	10.00	10.00	0.00	
12,600.00	61.25	180.43	12,462.36	144.05	0.91	-144.06	10.00	10.00	0.00	
12,650.00	66.25	180.43	12,484.47	99.23	0.57	-99.23	10.00	10.00	0.00	
12,700.00	71.25	180.43	12,502.58	52.64	0.22	-52.64	10.00	10.00	0.00	
12,750.00	76.25	180.43	12,516.57	4.66	-0.14	-4.66	10.00	10.00	0.00	
12,800.00	81.25	180.43	12,526.33	-44.36	-0.51	44.37	10.00	10.00	0.00	
12,850.00	86.25	180.43	12,531.77	-94.05	-0.88	94.05	10.00	10.00	0.00	
12,887.53	90.00	180.43	12,533.00	-131.55	-1.16	131.55	10.00	10.00	0.00	
Start 4605.00 hold at 12887.53 MD - LP (W2 10H)										
12,900.00	90.00	180.43	12,533.00	-144.02	-1.25	144.03	0.00	0.00	0.00	
13,000.00	90.00	180.43	12,533.00	-244.02	-2.00	244.03	0.00	0.00	0.00	
13,100.00	90.00	180.43	12,533.00	-344.01	-2.75	344.03	0.00	0.00	0.00	
13,200.00	90.00	180.43	12,533.00	-444.01	-3.51	444.03	0.00	0.00	0.00	
13,300.00	90.00	180.43	12,533.00	-544.01	-4.26	544.03	0.00	0.00	0.00	
13,400.00	90.00	180.43	12,533.00	-644.01	-5.01	644.03	0.00	0.00	0.00	
13,500.00	90.00	180.43	12,533.00	-744.00	-5.76	744.03	0.00	0.00	0.00	
13,600.00	90.00	180.43	12,533.00	-844.00	-6.51	844.03	0.00	0.00	0.00	
13,700.00	90.00	180.43	12,533.00	-944.00	-7.26	944.03	0.00	0.00	0.00	
13,800.00	90.00	180.43	12,533.00	-1,043.99	-8.01	1,044.03	0.00	0.00	0.00	
13,900.00	90.00	180.43	12,533.00	-1,143.99	-8.76	1,144.03	0.00	0.00	0.00	
14,000.00	90.00	180.43	12,533.00	-1,243.99	-9.51	1,244.03	0.00	0.00	0.00	
14,100.00	90.00	180.43	12,533.00	-1,343.99	-10.26	1,344.03	0.00	0.00	0.00	
14,200.00	90.00	180.43	12,533.00	-1,443.98	-11.01	1,444.03	0.00	0.00	0.00	
14,300.00	90.00	180.43	12,533.00	-1,543.98	-11.76	1,544.03	0.00	0.00	0.00	

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well W2 10H
Company:	ConocoPhillips	TVD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Site:	Red Hills West 16 State	North Reference:	Grid
Well:	W2 10H	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)
14,400.00	90.00	180.43	12,533.00	-1,643.98	-12.51	1,644.03	0.00	0.00	0.00
14,500.00	90.00	180.43	12,533.00	-1,743.98	-13.26	1,744.03	0.00	0.00	0.00
14,600.00	90.00	180.43	12,533.00	-1,843.97	-14.01	1,844.03	0.00	0.00	0.00
14,700.00	90.00	180.43	12,533.00	-1,943.97	-14.76	1,944.03	0.00	0.00	0.00
14,800.00	90.00	180.43	12,533.00	-2,043.97	-15.51	2,044.03	0.00	0.00	0.00
14,900.00	90.00	180.43	12,533.00	-2,143.96	-16.26	2,144.03	0.00	0.00	0.00
15,000.00	90.00	180.43	12,533.00	-2,243.96	-17.01	2,244.03	0.00	0.00	0.00
15,100.00	90.00	180.43	12,533.00	-2,343.96	-17.76	2,344.03	0.00	0.00	0.00
15,200.00	90.00	180.43	12,533.00	-2,443.96	-18.51	2,444.03	0.00	0.00	0.00
15,300.00	90.00	180.43	12,533.00	-2,543.95	-19.27	2,544.03	0.00	0.00	0.00
15,400.00	90.00	180.43	12,533.00	-2,643.95	-20.02	2,644.03	0.00	0.00	0.00
15,500.00	90.00	180.43	12,533.00	-2,743.95	-20.77	2,744.03	0.00	0.00	0.00
15,600.00	90.00	180.43	12,533.00	-2,843.94	-21.52	2,844.03	0.00	0.00	0.00
15,700.00	90.00	180.43	12,533.00	-2,943.94	-22.27	2,944.03	0.00	0.00	0.00
15,800.00	90.00	180.43	12,533.00	-3,043.94	-23.02	3,044.03	0.00	0.00	0.00
15,900.00	90.00	180.43	12,533.00	-3,143.94	-23.77	3,144.03	0.00	0.00	0.00
16,000.00	90.00	180.43	12,533.00	-3,243.93	-24.52	3,244.03	0.00	0.00	0.00
16,100.00	90.00	180.43	12,533.00	-3,343.93	-25.27	3,344.03	0.00	0.00	0.00
16,200.00	90.00	180.43	12,533.00	-3,443.93	-26.02	3,444.03	0.00	0.00	0.00
16,300.00	90.00	180.43	12,533.00	-3,543.92	-26.77	3,544.03	0.00	0.00	0.00
16,400.00	90.00	180.43	12,533.00	-3,643.92	-27.52	3,644.03	0.00	0.00	0.00
16,500.00	90.00	180.43	12,533.00	-3,743.92	-28.27	3,744.03	0.00	0.00	0.00
16,600.00	90.00	180.43	12,533.00	-3,843.92	-29.02	3,844.03	0.00	0.00	0.00
16,700.00	90.00	180.43	12,533.00	-3,943.91	-29.77	3,944.03	0.00	0.00	0.00
16,800.00	90.00	180.43	12,533.00	-4,043.91	-30.52	4,044.03	0.00	0.00	0.00
16,900.00	90.00	180.43	12,533.00	-4,143.91	-31.27	4,144.03	0.00	0.00	0.00
17,000.00	90.00	180.43	12,533.00	-4,243.90	-32.02	4,244.03	0.00	0.00	0.00
17,100.00	90.00	180.43	12,533.00	-4,343.90	-32.77	4,344.03	0.00	0.00	0.00
17,200.00	90.00	180.43	12,533.00	-4,443.90	-33.52	4,444.03	0.00	0.00	0.00
17,300.00	90.00	180.43	12,533.00	-4,543.90	-34.28	4,544.03	0.00	0.00	0.00
17,400.00	90.00	180.43	12,533.00	-4,643.89	-35.03	4,644.03	0.00	0.00	0.00
17,492.53	90.00	180.43	12,533.00	-4,736.42	-35.72	4,736.55	0.00	0.00	0.00
TD at 17492.53 - PBHL (W2 10H)									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
SHL (W2 10H)	- plan hits target center	0.00	0.00	0.00	0.00	0.00	382,313.62	704,921.44	32° 2' 57.73 N 103° 40' 18.97 W
	- Point								
PBHL (W2 10H)	- plan hits target center	0.00	0.00	12,533.00	-4,736.42	-35.72	377,577.20	704,885.72	32° 2' 10.86 N 103° 40' 19.72 W
	- Point								
LP (W2 10H)	- plan hits target center	0.00	0.00	12,533.00	-131.55	-1.16	382,182.07	704,920.28	32° 2' 56.43 N 103° 40' 19.00 W
	- Point								

Database:	EDM 5000.1 Single User-Db	Local Co-ordinate Reference:	Well-W2 10H
Company:	ConocoPhillips	TVD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Project:	Lea County, NM	MD Reference:	Well @ 3249.00usft (RKB: 25' + GL: 3224')
Site:	Red Hills-West 16 State	North Reference:	Grid
Well:	W2 10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,504.71	4,490.00	Delaware		0.00	0.00	
4,505.72	4,491.00	Lamar		0.00	0.00	
4,545.06	4,530.00	Ramsey Sand 1		0.00	0.00	
4,585.40	4,570.00	Ramsey Shale		0.00	0.00	
4,595.49	4,580.00	Ramsey Sand 2		0.00	0.00	
4,615.66	4,600.00	Ford Shale		0.00	0.00	
4,630.79	4,615.00	Olds		0.00	0.00	
5,483.07	5,460.00	Cherry canyon		0.00	0.00	
7,207.49	7,180.00	Brushy Canyon		0.00	0.00	
8,407.49	8,380.00	Bone Springs		0.00	0.00	
8,612.49	8,585.00	BSp 1st Carb		0.00	0.00	
8,887.49	8,860.00	Avalon A		0.00	0.00	
9,137.49	9,110.00	Avalon B		0.00	0.00	
9,257.49	9,230.00	Avalon C		0.00	0.00	
9,517.49	9,490.00	BSp 1st Sand		0.00	0.00	
9,577.49	9,550.00	FBS		0.00	0.00	
9,927.49	9,900.00	BSp 2nd Carb		0.00	0.00	
10,262.49	10,235.00	Bsp 2nd Sand		0.00	0.00	
10,637.49	10,610.00	Bsp 3rd Carb		0.00	0.00	
11,352.49	11,325.00	Bsp 3rd Sand		0.00	0.00	
11,742.49	11,715.00	Wlfcmp		0.00	0.00	
11,937.49	11,910.00	WC1		0.00	0.00	
12,444.38	12,370.00	WC2		0.00	0.00	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,450.00	2,450.00	0.00	0.00	Start Build 1.50	
2,949.73	2,948.31	32.64	0.23	Start 2883.07 hold at 2949.73 MD	
5,832.80	5,806.74	408.75	2.91	Start Drop -1.50	
6,332.53	6,305.04	441.39	3.14	Start 5655.00 hold at 6332.53 MD	
11,987.53	11,960.04	441.39	3.14	Start Build 10.00	
12,887.53	12,533.00	-131.55	-1.16	Start 4605.00 hold at 12887.53 MD	
17,492.53	12,533.00	-4,736.42	-35.72	TD at 17492.53	

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

ConocoPhillips Company
Well: Red Hills West 16 State W2 10H
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.

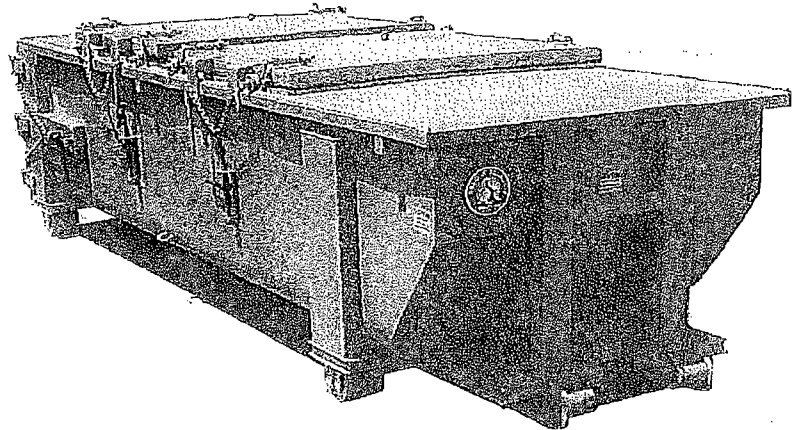
3. Mud will be transported by vacuum truck and disposed of at R-360 Inc. at the facility described above.
4. Fresh Water and Brine will be hauled off by vacuum truck and disposed of at an authorized salt water disposal well. We propose the following for disposal of fresh water and brine as needed:
 - 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 grease fittings
 DOOR LATCH: 3 independent ratchet binders with chains, vertical second latch
 GASKETS: Extruded rubber seal with metal retainers
 WELDS: All welds continuous except substructure 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, Hail 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

