

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

SEP 11 2014

RECEIVED

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

¹ Operator Name and Address ConocoPhillips Company 600 N. Dairy Ashford Rd; P10-3-3096 Houston, TX 77079-1175		² OGRID Number 217817
⁴ Property Code 31257	³ Property Name Vacuum Glorieta East Unit	⁵ API Number 30-025-42104 ⁶ Well No. 114H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
L	27	17S	35E		1896	South	28	West	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	28	17S	35E		424	South	1532	East	Lea

9. Pool Information

Vacuum; Glorieta	¹⁰ Pool Name	¹¹ Pool Code 62160
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Additional Well Information

¹² Work Type New Drill	¹³ Well Type Oil	¹⁴ Cable/Rotary	¹⁵ Lease Type State	¹⁶ Ground Level Elevation 3940'
¹⁷ Multiple	¹⁸ Proposed Depth 6065' TVD/7893' MD	¹⁹ Formation Paddock	²⁰ Contractor	²¹ Spud Date 10/01/14
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ 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	12.25"	9.625"	36	1623'	550	0
Int 1	8.75"	7.0"	26	6475'	850	0

Casing/Cement Program: Additional Comments

We plan to drill a 6" hole in producing zone for an open hole completion.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	3000	Townsend
Double Ram	3000	3000	Schaffer

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☐ , if applicable. Signature: <i>Susan B. Maunder</i>		OIL CONSERVATION DIVISION	
Printed name: Susan B. Maunder		Approved By: <i>[Signature]</i>	
Title: Sr. Regulatory Specialist		Title: Petroleum Engineer	
E-mail Address: Susan.B.Maunder@cop.com		Approved Date: 09/16/14	Expiration Date: 09/16/16
Date: 9/08/14	Phone: 281-206-5281	Conditions of App: E-PERMITTING - - New Well <i>dn</i>	

Comp _____ P&A _____ TA _____
CSNG _____ Loc Chng _____
ReComp _____ Add New Well _____
Cancl Well _____ Create Pool _____

SEP 16 2014



HOBBS OCD

SEP 11 2014

RECEIVED

ConocoPhillips

Lea County, New Mexico (NAD 27)
Vacuum Glorieta East Unit
01-14H

Wellbore #1

Plan: Design #1

Standard Planning Report

27 August, 2014

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 01-14H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3952.90usft (Precision 822)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3952.90usft (Precision 822)
Site:	Vacuum Glorieta East Unit	North Reference:	Grid
Well:	01-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico (NAD 27)		
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		

Well	01-14H					
Well Position	+N/-S	657,196.94 usft	Northing:	657,196.94 usft	Latitude:	32° 48' 13.075 N
	+E/-W	770,352.42 usft	Easting:	770,352.42 usft	Longitude:	103° 27' 12.484 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,939.90 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	9/1/2014	7.34	60.66	48,616

Design	Design #1				
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Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	226.38	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,348.70	0.00	0.00	5,348.70	0.00	0.00	0.00	0.00	0.00	0.00	
6,473.70	90.00	226.38	6,064.90	-494.08	-518.48	8.00	8.00	0.00	226.38	
7,893.45	90.00	226.38	6,064.90	-1,473.51	-1,546.29	0.00	0.00	0.00	0.00	PBHL v1 - Vacuum

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 01-14H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3952.90usft (Precision 822)
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Site:	Vacuum Glorieta East Unit	North Reference:	Grid
Well:	01-14H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,587.90	0.00	0.00	1,587.90	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,622.90	0.00	0.00	1,622.90	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,679.90	0.00	0.00	1,679.90	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
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
2,727.90	0.00	0.00	2,727.90	0.00	0.00	0.00	0.00	0.00	0.00
Tansil									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,858.90	0.00	0.00	2,858.90	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
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
3,134.90	0.00	0.00	3,134.90	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
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
3,498.90	0.00	0.00	3,498.90	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
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

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Company: ConocoPhillips
Project: Lea County, New Mexico (NAD 27)
Site: Vacuum Gorieta East Unit
Well: 01-14H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 01-14H
TVD Reference: WELL @ 3952.90usft (Precision 822)
MD Reference: WELL @ 3952.90usft (Precision 822)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
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
4,027.90	0.00	0.00	4,027.90	0.00	0.00	0.00	0.00	0.00	0.00
Grayburg									
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
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
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
5,348.70	0.00	0.00	5,348.70	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 8.00°/100' Build									
5,350.00	0.10	226.38	5,350.00	0.00	0.00	0.00	8.00	8.00	0.00
5,400.00	4.10	226.38	5,399.96	-1.27	-1.33	1.84	8.00	8.00	0.00
5,450.00	8.10	226.38	5,449.66	-4.93	-5.18	7.15	8.00	8.00	0.00
5,500.00	12.10	226.38	5,498.88	-10.98	-11.53	15.92	8.00	8.00	0.00
5,550.00	16.10	226.38	5,547.36	-19.39	-20.34	28.10	8.00	8.00	0.00
5,600.00	20.10	226.38	5,594.88	-30.10	-31.59	43.64	8.00	8.00	0.00
5,650.00	24.10	226.38	5,641.19	-43.08	-45.21	62.45	8.00	8.00	0.00
5,700.00	28.10	226.38	5,686.08	-58.25	-61.13	84.44	8.00	8.00	0.00
5,750.00	32.10	226.38	5,729.33	-75.55	-79.28	109.52	8.00	8.00	0.00
5,800.00	36.10	226.38	5,770.72	-94.89	-99.57	137.54	8.00	8.00	0.00
5,830.41	38.54	226.38	5,794.90	-107.60	-112.92	155.98	8.00	8.00	0.00
San Andres									
5,850.00	40.10	226.38	5,810.06	-116.17	-121.91	168.39	8.00	8.00	0.00
5,900.00	44.10	226.38	5,847.15	-139.29	-146.17	201.91	8.00	8.00	0.00
5,950.00	48.10	226.38	5,881.81	-164.14	-172.25	237.93	8.00	8.00	0.00
6,000.00	52.10	226.38	5,913.87	-190.60	-200.01	276.29	8.00	8.00	0.00
6,050.00	56.10	226.38	5,943.18	-218.54	-229.33	316.78	8.00	8.00	0.00
6,060.37	56.93	226.38	5,948.90	-224.50	-235.59	325.43	8.00	8.00	0.00
Glorieta									
6,100.00	60.10	226.38	5,969.60	-247.81	-260.06	359.22	8.00	8.00	0.00
6,150.00	64.10	226.38	5,992.98	-278.29	-292.04	403.40	8.00	8.00	0.00
6,200.00	68.10	226.38	6,013.23	-309.82	-325.13	449.11	8.00	8.00	0.00
6,250.00	72.10	226.38	6,030.25	-342.25	-359.16	496.11	8.00	8.00	0.00
6,300.00	76.10	226.38	6,043.94	-375.42	-393.96	544.19	8.00	8.00	0.00
6,350.00	80.10	226.38	6,054.24	-409.16	-429.37	593.11	8.00	8.00	0.00
6,400.00	84.10	226.38	6,061.11	-443.32	-465.22	642.62	8.00	8.00	0.00
6,450.00	88.10	226.38	6,064.51	-477.73	-501.33	692.50	8.00	8.00	0.00
6,473.70	90.00	226.38	6,064.90	-494.08	-518.48	716.19	8.00	8.00	0.00
Begin 90.00° Lateral - U. Paddock - 7"									
6,500.00	90.00	226.38	6,064.90	-512.22	-537.52	742.49	0.00	0.00	0.00
6,600.00	90.00	226.38	6,064.90	-581.21	-609.91	842.49	0.00	0.00	0.00
6,700.00	90.00	226.38	6,064.90	-650.19	-682.31	942.49	0.00	0.00	0.00
6,800.00	90.00	226.38	6,064.90	-719.18	-754.70	1,042.49	0.00	0.00	0.00
6,900.00	90.00	226.38	6,064.90	-788.17	-827.10	1,142.49	0.00	0.00	0.00
7,000.00	90.00	226.38	6,064.90	-857.15	-899.49	1,242.49	0.00	0.00	0.00

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Site: Vacuum Glorieta East Unit
Well: 01-14H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 01-14H
TVD Reference: WELL @ 3952.90usft (Precision 822)
MD Reference: WELL @ 3952.90usft (Precision 822)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
7,100.00	90.00	226.38	6,064.90	-926.14	-971.88	1,342.49	0.00	0.00	0.00
7,200.00	90.00	226.38	6,064.90	-995.13	-1,044.28	1,442.49	0.00	0.00	0.00
7,300.00	90.00	226.38	6,064.90	-1,064.11	-1,116.67	1,542.49	0.00	0.00	0.00
7,400.00	90.00	226.38	6,064.90	-1,133.10	-1,189.07	1,642.49	0.00	0.00	0.00
7,500.00	90.00	226.38	6,064.90	-1,202.09	-1,261.46	1,742.49	0.00	0.00	0.00
7,600.00	90.00	226.38	6,064.90	-1,271.07	-1,333.85	1,842.49	0.00	0.00	0.00
7,700.00	90.00	226.38	6,064.90	-1,340.06	-1,406.25	1,942.49	0.00	0.00	0.00
7,800.00	90.00	226.38	6,064.90	-1,409.04	-1,478.64	2,042.49	0.00	0.00	0.00
7,893.45	90.00	226.38	6,064.90	-1,473.51	-1,546.29	2,135.94	0.00	0.00	0.00
PBHL									

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
- Shape									
PBHL v1 - Vacuum GI	0.00	0.00	6,064.90	-1,473.51	-1,546.29	655,723.43	768,806.13	32° 47' 58.622 N	103° 27' 30.742 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,622.90	1,622.90	9 5/8"	9-5/8	12-1/4
6,473.70	6,064.90	7"	7	7-1/2

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,587.90	1,587.90	Rustler		0.00	226.38
1,679.90	1,679.90	Salado		0.00	226.38
2,727.90	2,727.90	Tansil		0.00	226.38
2,858.90	2,858.90	Yates		0.00	226.38
3,134.90	3,134.90	Seven Rivers		0.00	226.38
3,498.90	3,498.90	Queen		0.00	226.38
4,027.90	4,027.90	Grayburg		0.00	226.38
5,830.41	5,794.90	San Andres		0.00	226.38
6,060.37	5,948.90	Glorieta		0.00	226.38
6,473.70	6,064.90	U. Paddock		0.00	226.38

Database: EDM 5000.1 Conroe DB
Company: ConocoPhillips
Project: Lea County, New Mexico (NAD 27)
Site: Vacuum Glorieta East Unit
Well: 01-14H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well 01-14H
TVD Reference: WELL @ 3952.90usft (Precision 822)
MD Reference: WELL @ 3952.90usft (Precision 822)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,348.70	5,348.70	0.00	0.00	KOP, 8.00°/100' Build
6,473.70	6,064.90	-494.08	-518.48	Begin 90.00° Lateral
7,893.45	6,064.90	-1,473.51	-1,546.29	PBHL

ConocoPhillips
Vacuum Glorieta East Unit 01-14H
Lea County, New Mexico (NAD 27)
Design #1

MD	INC	AZI	Course		Subsea			X	Y	Lat	Long	Dogleg		
			Length	TVD	Depth	N-S	E/-W					Severity	Vert Sec	
	0	0	0	0	0	3952.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
100	0	0	0	100	100	3852.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
200	0	0	0	100	200	3752.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
300	0	0	0	100	300	3652.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
400	0	0	0	100	400	3552.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
500	0	0	0	100	500	3452.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
600	0	0	0	100	600	3352.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
700	0	0	0	100	700	3252.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
800	0	0	0	100	800	3152.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
900	0	0	0	100	900	3052.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1000	0	0	0	100	1000	2952.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1100	0	0	0	100	1100	2852.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1200	0	0	0	100	1200	2752.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1300	0	0	0	100	1300	2652.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1400	0	0	0	100	1400	2552.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1500	0	0	0	100	1500	2452.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1600	0	0	0	100	1600	2352.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1700	0	0	0	100	1700	2252.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1800	0	0	0	100	1800	2152.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
1900	0	0	0	100	1900	2052.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2000	0	0	0	100	2000	1952.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2100	0	0	0	100	2100	1852.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2200	0	0	0	100	2200	1752.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2300	0	0	0	100	2300	1652.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2400	0	0	0	100	2400	1552.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2500	0	0	0	100	2500	1452.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2600	0	0	0	100	2600	1352.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2700	0	0	0	100	2700	1252.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2800	0	0	0	100	2800	1152.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
2900	0	0	0	100	2900	1052.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3000	0	0	0	100	3000	952.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3100	0	0	0	100	3100	852.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3200	0	0	0	100	3200	752.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3300	0	0	0	100	3300	652.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3400	0	0	0	100	3400	552.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3500	0	0	0	100	3500	452.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3600	0	0	0	100	3600	352.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3700	0	0	0	100	3700	252.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3800	0	0	0	100	3800	152.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
3900	0	0	0	100	3900	52.9	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4000	0	0	0	100	4000	-47.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4100	0	0	0	100	4100	-147.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4200	0	0	0	100	4200	-247.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4300	0	0	0	100	4300	-347.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4400	0	0	0	100	4400	-447.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4500	0	0	0	100	4500	-547.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4600	0	0	0	100	4600	-647.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4700	0	0	0	100	4700	-747.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4800	0	0	0	100	4800	-847.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
4900	0	0	0	100	4900	-947.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5000	0	0	0	100	5000	-1047.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5100	0	0	0	100	5100	-1147.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5200	0	0	0	100	5200	-1247.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5300	0	0	0	100	5300	-1347.1	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5348.703	0	0	0	48.703	5348.703	-1395.803	0	0	770352.4	657196.9	32° 48' 13.0	103° 27' 12	0	0
5350	0.104	226.381		1.297	5350	-1397.1	-0.001	-0.001	770352.4	657196.9	32° 48' 13.0	103° 27' 12	8	0.001
5400	4.104	226.381		50	5399.956	-1447.056	-1.267	-1.329	770351.1	657195.7	32° 48' 13.0	103° 27' 12	8	1.836
5450	8.104	226.381		50	5449.663	-1496.763	-4.934	-5.177	770347.2	657192	32° 48' 13.0	103° 27' 12	8	7.152

5500	12.104	226.381	50	5498.877	-1545.977	-10.984	-11.526	770340.9	657186 32° 48' 12.1 103° 27' 12	8	15.921
5550	16.104	226.381	50	5547.36	-1594.46	-19.387	-20.345	770332.1	657177.6 32° 48' 12.1 103° 27' 12	8	28.103
5600	20.104	226.381	50	5594.875	-1641.975	-30.103	-31.59	770320.8	657166.8 32° 48' 12.1 103° 27' 12	8	43.637
5650	24.104	226.381	50	5641.191	-1688.291	-43.08	-45.208	770307.2	657153.9 32° 48' 12.1 103° 27' 13	8	62.447
5700	28.104	226.381	50	5686.082	-1733.182	-58.254	-61.131	770291.3	657138.7 32° 48' 12.1 103° 27' 13	8	84.443
5750	32.104	226.381	50	5729.329	-1776.429	-75.551	-79.283	770273.1	657121.4 32° 48' 12.1 103° 27' 13	8	109.516
5800	36.104	226.381	50	5770.722	-1817.822	-94.887	-99.574	770252.8	657102.1 32° 48' 12.1 103° 27' 13	8	137.545
5850	40.104	226.381	50	5810.058	-1857.158	-116.168	-121.906	770230.5	657080.8 32° 48' 11.1 103° 27' 13	8	168.393
5900	44.104	226.381	50	5847.148	-1894.248	-139.291	-146.17	770206.3	657057.6 32° 48' 11.1 103° 27' 14	8	201.91
5950	48.104	226.381	50	5881.808	-1928.908	-164.141	-172.249	770180.2	657032.8 32° 48' 11.1 103° 27' 14	8	237.933
6000	52.104	226.381	50	5913.872	-1960.972	-190.599	-200.013	770152.4	657006.3 32° 48' 11.1 103° 27' 14	8	276.285
6050	56.104	226.381	50	5943.182	-1990.282	-218.536	-229.33	770123.1	656978.4 32° 48' 10.1 103° 27' 15	8	316.781
6100	60.104	226.381	50	5969.595	-2016.695	-247.815	-260.055	770092.4	656949.1 32° 48' 10.1 103° 27' 15	8	359.223
6150	64.104	226.381	50	5992.984	-2040.084	-278.294	-292.039	770060.4	656918.6 32° 48' 10.1 103° 27' 15	8	403.404
6200	68.104	226.381	50	6013.234	-2060.334	-309.824	-325.127	770027.3	656887.1 32° 48' 10.1 103° 27' 16	8	449.108
6250	72.104	226.381	50	6030.247	-2077.347	-342.252	-359.156	769993.3	656854.7 32° 48' 9.7 103° 27' 16	8	496.114
6300	76.104	226.381	50	6043.939	-2091.039	-375.419	-393.962	769958.5	656821.5 32° 48' 9.3 103° 27' 17	8	544.192
6350	80.104	226.381	50	6054.243	-2101.343	-409.165	-429.374	769923	656787.8 32° 48' 9.0 103° 27' 17	8	593.109
6400	84.104	226.381	50	6061.111	-2108.211	-443.324	-465.221	769887.2	656753.6 32° 48' 8.7 103° 27' 17	8	642.625
6450	88.104	226.381	50	6064.508	-2111.608	-477.73	-501.327	769851.1	656719.2 32° 48' 8.3 103° 27' 18	8	692.499
6473.703	90	226.381	23.703	6064.9	-2112	-494.079	-518.483	769833.9	656702.9 32° 48' 8.2 103° 27' 18	8	716.197
6500	90	226.381	26.297	6064.9	-2112	-512.221	-537.52	769814.9	656684.7 32° 48' 8.0 103° 27' 18	0	742.494
6600	90	226.381	100	6064.9	-2112	-581.207	-609.914	769742.5	656615.7 32° 48' 7.3 103° 27' 19	0	842.494
6700	90	226.381	100	6064.9	-2112	-650.194	-682.308	769670.1	656546.7 32° 48' 6.6 103° 27' 20	0	942.494
6800	90	226.381	100	6064.9	-2112	-719.18	-754.702	769597.7	656477.8 32° 48' 6.0 103° 27' 21	0	1042.494
6900	90	226.381	100	6064.9	-2112	-788.166	-827.096	769525.3	656408.8 32° 48' 5.3 103° 27' 22	0	1142.494
7000	90	226.381	100	6064.9	-2112	-857.153	-899.49	769452.9	656339.8 32° 48' 4.6 103° 27' 23	0	1242.494
7100	90	226.381	100	6064.9	-2112	-926.139	-971.883	769380.5	656270.8 32° 48' 3.9 103° 27' 23	0	1342.494
7200	90	226.381	100	6064.9	-2112	-995.126	-1044.277	769308.1	656201.8 32° 48' 3.3 103° 27' 24	0	1442.494
7300	90	226.381	100	6064.9	-2112	-1064.112	-1116.671	769235.7	656132.8 32° 48' 2.6 103° 27' 25	0	1542.494
7400	90	226.381	100	6064.9	-2112	-1133.099	-1189.065	769163.4	656063.8 32° 48' 1.9 103° 27' 26	0	1642.494
7500	90	226.381	100	6064.9	-2112	-1202.085	-1261.459	769091	655994.9 32° 48' 1.2 103° 27' 27	0	1742.494
7600	90	226.381	100	6064.9	-2112	-1271.072	-1333.853	769018.6	655925.9 32° 48' 0.6 103° 27' 28	0	1842.494
7700	90	226.381	100	6064.9	-2112	-1340.058	-1406.247	768946.2	655856.9 32° 47' 59.1 103° 27' 29	0	1942.494
7800	90	226.381	100	6064.9	-2112	-1409.044	-1478.64	768873.8	655787.9 32° 47' 59.1 103° 27' 29	0	2042.494
7893.447	90	226.381	93.447	6064.9	-2112	-1473.51	-1546.29	768806.1	655723.4 32° 47' 58.1 103° 27' 30	0	2135.941

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

ConocoPhillips Company

Well: Vacuum Glorieta East Unit (VGEU) 114H

Location: Sec. 27, T17S, R35E

Date: 9/8/2014

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.

Steven Herrin

Drilling Engineer

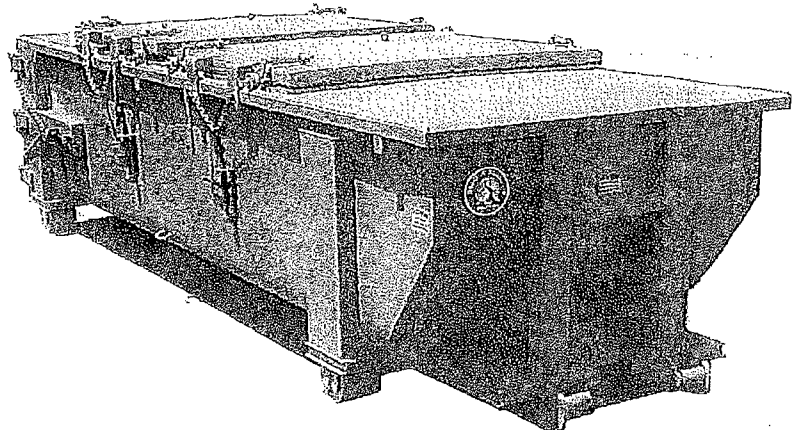
Office: 281-206-5115

Cell: 432-209-7558

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, Hell 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

