

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr. **HOBBS OCD**
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

JUL 20 2015

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42104		² Pool Code 62160	³ Pool Name Vacuum; Glorieta
⁴ Property Code 31257	⁵ Property Name VGEU		⁶ Well Number 114H
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company		⁹ Elevation 3939.9'

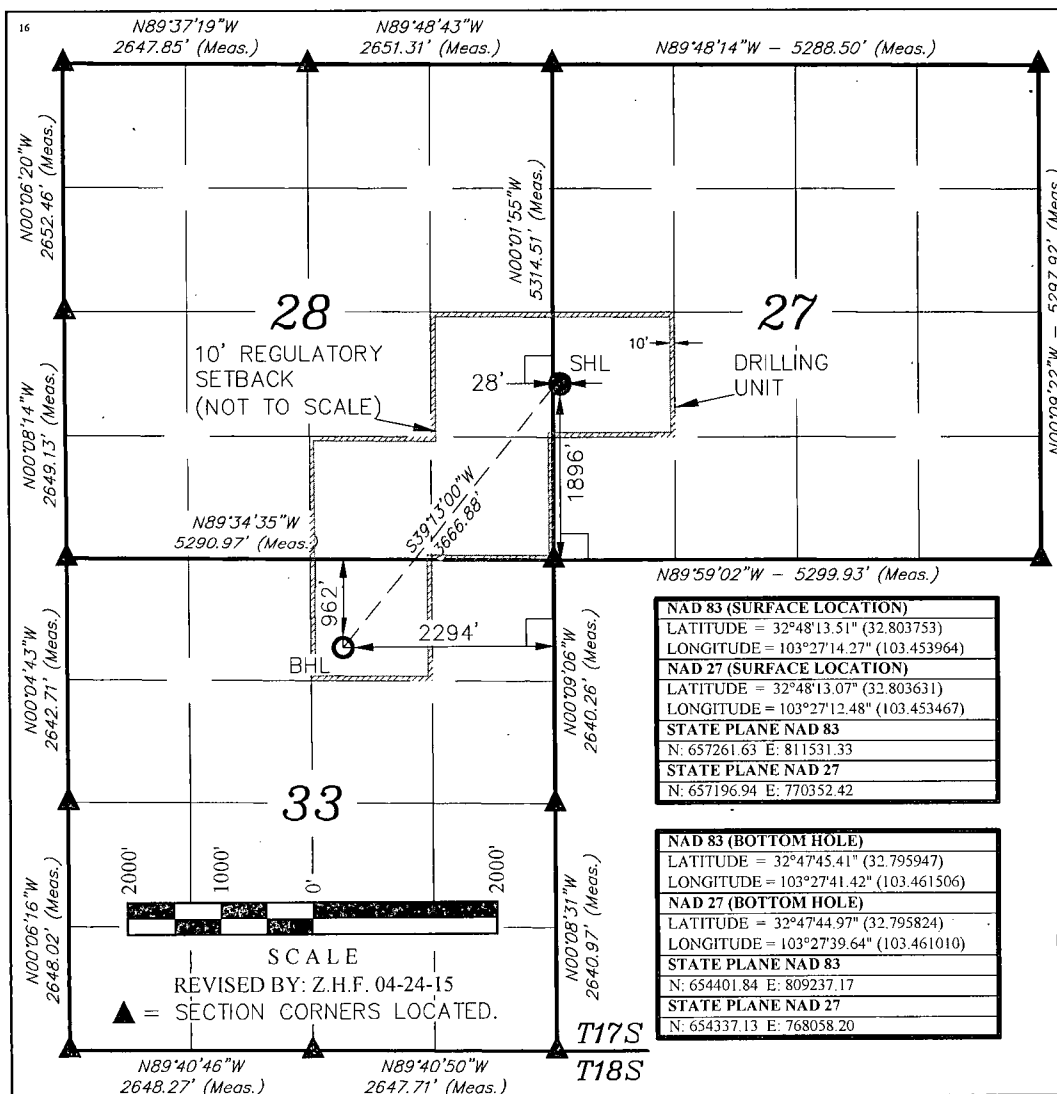
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	27	17S	35E		1896	SOUTH	28	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	33	17S	35E		962	NORTH	2294	EAST	LEA
¹² Dedicated Acres 200	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR
CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 7/14/15
Signature Date

Susan B. Maunder
Printed Name

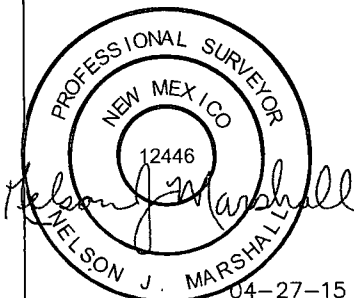
Susan.B.Maunder@cop.com
E-mail Address

¹⁸ SURVEYOR
CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

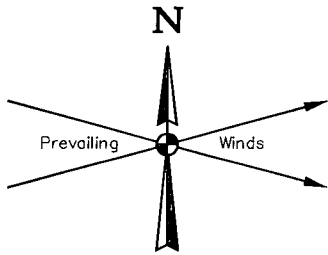
July 09, 2014

Date of Survey
Signature and Seal of Professional Surveyor:



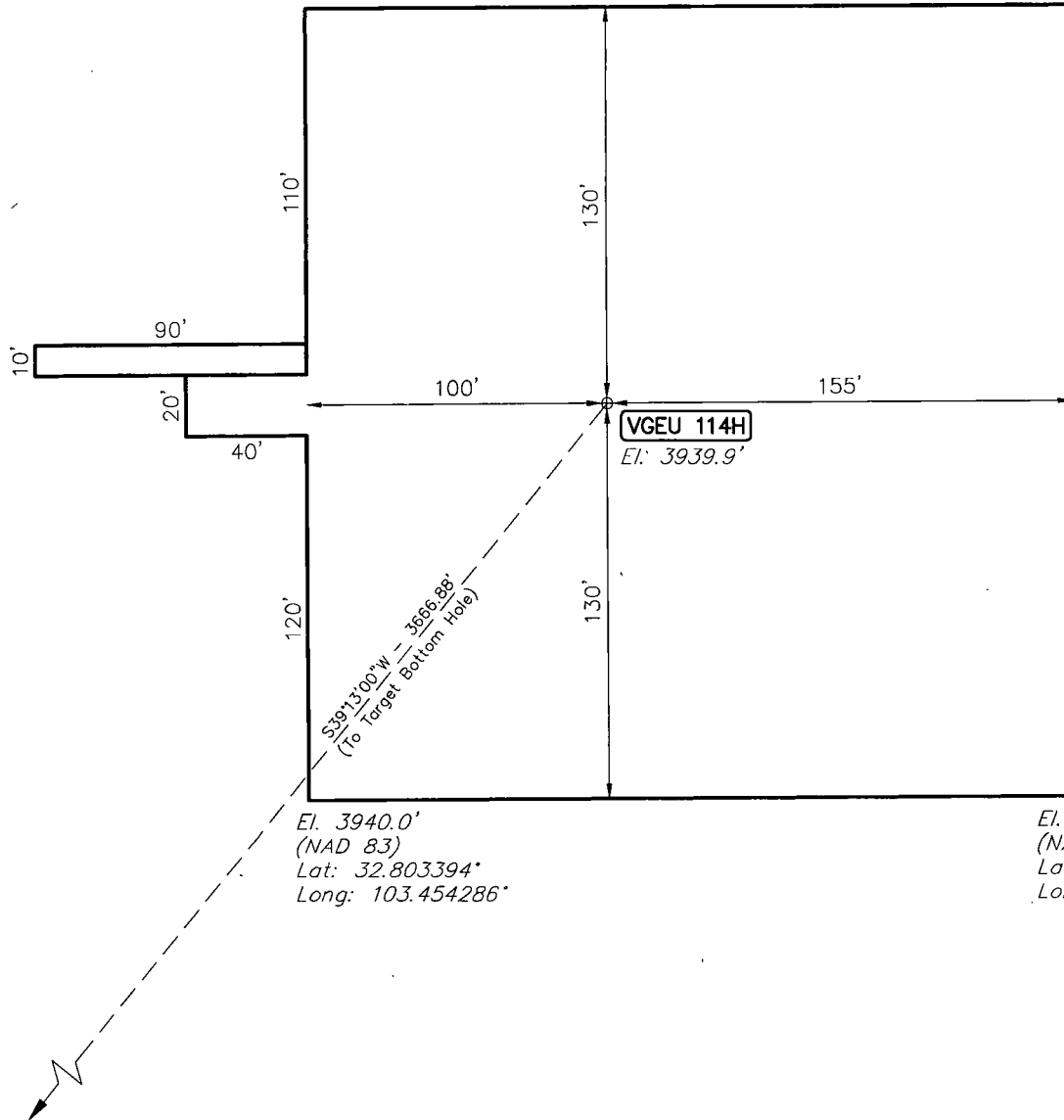
Certificate Number:

AUG 11 2015



El. 3940.2'
(NAD 83)
Lat: 32.804108°
Long: 103.454292°

El. 3940.0'
(NAD 83)
Lat: 32.804114°
Long: 103.453461°



El. 3940.0'
(NAD 83)
Lat: 32.803394°
Long: 103.454286°

El. 3939.8'
(NAD 83)
Lat: 32.803400°
Long: 103.453456°

ELEV. UNGRADED GROUND AT LOC. STAKE = 3939.9'

NOTES:

ConocoPhillips Company

VGEU 114H
SECTION 27, T17S, R35E, N.M.P.M.
1896' FSL 28' FWL



UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

DRAWN BY: J.J.	DATE DRAWN: 07-09-14
SCALE: 1" = 60'	REVISED: 04-27-15 Z.H.F.
LOCATION LAYOUT	FIGURE #1



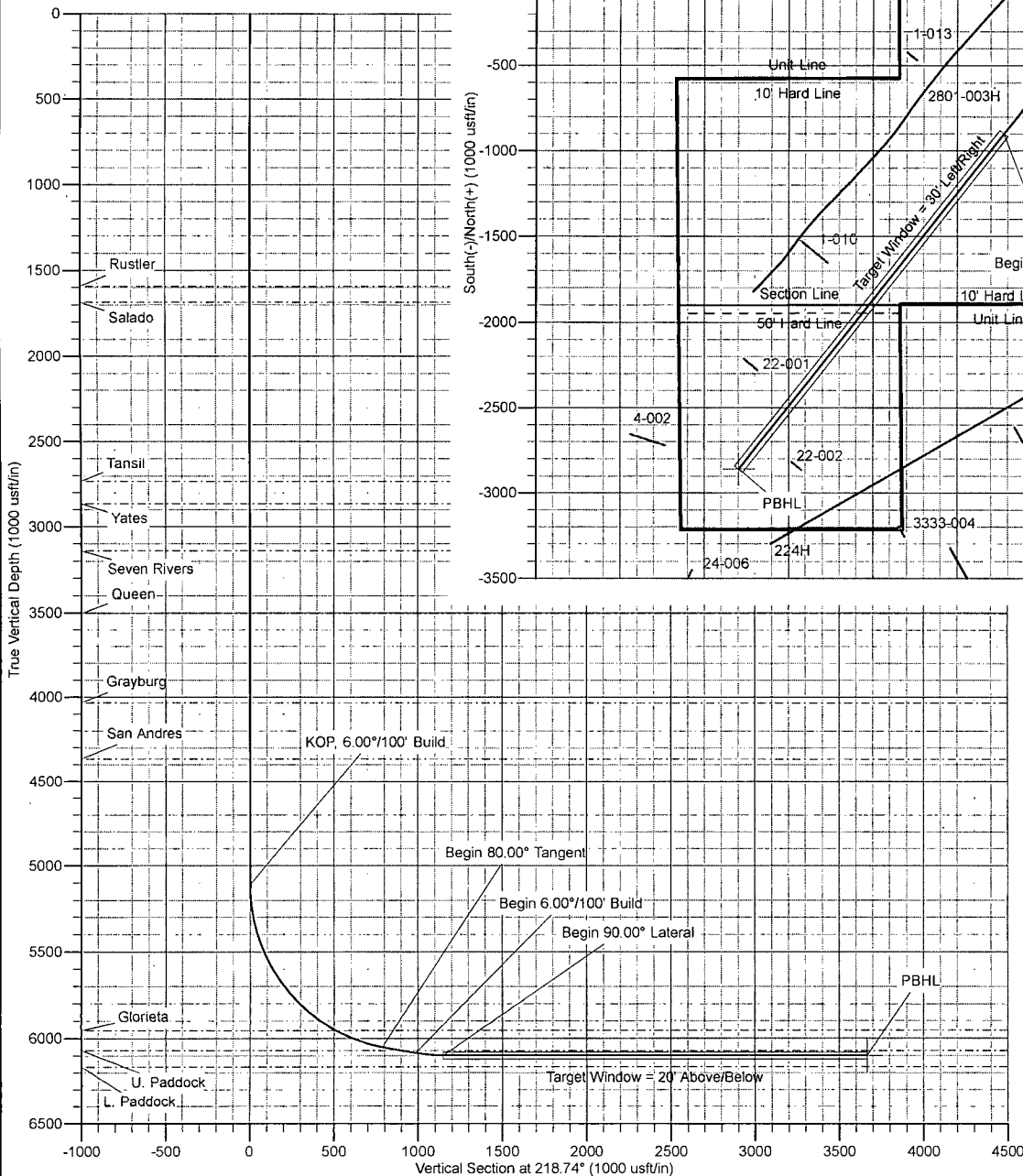
Azimuths to Grid North
 True North: -0.48°
 Magnetic North: 6.69°
 Magnetic Field
 Strength: 48553.4snT
 Dip Angle: 60.70°
 Date: 09/01/2015
 Model: BGGM2015

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
5110.34	0.00	0.00	5110.34	0.00	0.00	0.00	0.00	KOP, 6.00°/100' Build
6443.67	80.00	218.74	6050.76	-615.52	-493.79	789.11	789.11	Begin 80.00° Tangent
6643.67	80.00	218.74	6085.49	-769.15	-617.04	986.07	986.07	Begin 6.00°/100' Build
6810.34	90.00	218.74	6100.00	-898.50	-720.80	1151.89	1151.89	Begin 90.00° Lateral
9324.78	90.00	218.74	6100.00	-2859.81	-2294.22	3666.33	3666.33	PBHL

US State Plane 1927 (Exact solution)
 New Mexico East 3001

Created By: HLH
 Date: 15:57, June 25 2015
 Plan: Design #8





ConocoPhillips

Lea County, New Mexico (NAD 27)

VGEU

114H

Wellbore #1

Plan: Design #8

Standard Planning Report

25 June, 2015



Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 114H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3954.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3954.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #8		

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	114H					
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: 3,940.00 usft		

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	09/01/15	7.17	60.70	48,553

Design:	Design #8
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Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	218.74

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	
5,110.34	0.00	0.00	5,110.34	0.00	0.00	0.00	0.00	0.00	0.00	
6,443.67	80.00	218.74	6,050.76	-615.52	-493.79	6.00	6.00	0.00	218.74	PBHL v8 - VGEU 1
6,643.67	80.00	218.74	6,085.49	-769.15	-617.04	0.00	0.00	0.00	0.00	
6,810.34	90.00	218.74	6,100.00	-898.50	-720.80	6.00	6.00	0.00	0.00	
9,324.78	90.00	218.74	6,100.00	-2,859.81	-2,294.22	0.00	0.00	0.00	0.00	PBHL v8 - VGEU 1

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Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3954.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #8		

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	
1,593.00	0.00	0.00	1,593.00	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	
1,685.00	0.00	0.00	1,685.00	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	
2,733.00	0.00	0.00	2,733.00	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	
2,864.00	0.00	0.00	2,864.00	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	
3,140.00	0.00	0.00	3,140.00	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	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,504.00	0.00	0.00	3,504.00	0.00	0.00	0.00	0.00	0.00	0.00	
Queen										
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	

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 114H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3954.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3954.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #8		

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)
4,033.00	0.00	0.00	4,033.00	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
4,368.00	0.00	0.00	4,368.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
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
5,110.34	0.00	0.00	5,110.34	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 6.00°/100' Build									
5,150.00	2.38	218.74	5,149.99	-0.64	-0.52	0.82	6.00	6.00	0.00
5,200.00	5.38	218.74	5,199.87	-3.28	-2.63	4.21	6.00	6.00	0.00
5,250.00	8.38	218.74	5,249.50	-7.95	-6.38	10.19	6.00	6.00	0.00
5,300.00	11.38	218.74	5,298.76	-14.64	-11.75	18.77	6.00	6.00	0.00
5,350.00	14.38	218.74	5,347.49	-23.34	-18.72	29.92	6.00	6.00	0.00
5,400.00	17.38	218.74	5,395.58	-34.01	-27.28	43.60	6.00	6.00	0.00
5,450.00	20.38	218.74	5,442.88	-46.62	-37.40	59.77	6.00	6.00	0.00
5,500.00	23.38	218.74	5,489.28	-61.16	-49.06	78.40	6.00	6.00	0.00
5,550.00	26.38	218.74	5,534.63	-77.56	-62.22	99.44	6.00	6.00	0.00
5,600.00	29.38	218.74	5,578.82	-95.80	-76.85	122.81	6.00	6.00	0.00
5,650.00	32.38	218.74	5,621.73	-115.81	-92.91	148.47	6.00	6.00	0.00
5,700.00	35.38	218.74	5,663.24	-137.55	-110.35	176.34	6.00	6.00	0.00
5,750.00	38.38	218.74	5,703.23	-160.95	-129.12	206.35	6.00	6.00	0.00
5,800.00	41.38	218.74	5,741.59	-185.96	-149.18	238.40	6.00	6.00	0.00
5,850.00	44.38	218.74	5,778.23	-212.49	-170.47	272.42	6.00	6.00	0.00
5,900.00	47.38	218.74	5,813.03	-240.49	-192.93	308.31	6.00	6.00	0.00
5,950.00	50.38	218.74	5,845.91	-269.87	-216.49	345.97	6.00	6.00	0.00
6,000.00	53.38	218.74	5,876.77	-300.54	-241.11	385.30	6.00	6.00	0.00
6,050.00	56.38	218.74	5,905.53	-332.44	-266.69	426.20	6.00	6.00	0.00
6,100.00	59.38	218.74	5,932.12	-365.47	-293.19	468.54	6.00	6.00	0.00
6,144.75	62.06	218.74	5,954.00	-395.92	-317.62	507.57	6.00	6.00	0.00
Glorieta									
6,150.00	62.38	218.74	5,956.44	-399.54	-320.52	512.21	6.00	6.00	0.00
6,200.00	65.38	218.74	5,978.46	-434.55	-348.61	557.10	6.00	6.00	0.00
6,250.00	68.38	218.74	5,998.09	-470.42	-377.38	603.08	6.00	6.00	0.00
6,300.00	71.38	218.74	6,015.28	-507.03	-406.76	650.02	6.00	6.00	0.00
6,350.00	74.38	218.74	6,030.00	-544.30	-436.65	697.80	6.00	6.00	0.00
6,400.00	77.38	218.74	6,042.20	-582.12	-466.99	746.29	6.00	6.00	0.00
6,443.67	80.00	218.74	6,050.76	-615.52	-493.79	789.11	6.00	6.00	0.00
Begin 80.00° Tangent									
6,500.00	80.00	218.74	6,060.54	-658.79	-528.50	844.58	0.00	0.00	0.00
6,554.46	80.00	218.74	6,070.00	-700.62	-562.06	898.21	0.00	0.00	0.00
U. Paddock									
6,600.00	80.00	218.74	6,077.91	-735.61	-590.12	943.06	0.00	0.00	0.00
6,643.67	80.00	218.74	6,085.49	-769.15	-617.04	986.07	0.00	0.00	0.00
Begin 6.00°/100' Build									

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Well:	114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #8		

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)	
6,650.00	80.38	218.74	6,086.57	-774.02	-620.94	992.30	6.00	6.00	0.00	
6,700.00	83.38	218.74	6,093.63	-812.62	-651.91	1,041.80	6.00	6.00	0.00	
6,750.00	86.38	218.74	6,098.09	-851.46	-683.07	1,091.59	6.00	6.00	0.00	
6,800.00	89.38	218.74	6,099.94	-890.43	-714.33	1,141.55	6.00	6.00	0.00	
6,810.34	90.00	218.74	6,100.00	-898.50	-720.80	1,151.89	6.00	6.00	0.00	
Begin 90.00° Lateral										
6,900.00	90.00	218.74	6,100.00	-968.44	-776.91	1,241.55	0.00	0.00	0.00	
7,000.00	90.00	218.74	6,100.00	-1,046.44	-839.48	1,341.55	0.00	0.00	0.00	
7,100.00	90.00	218.74	6,100.00	-1,124.44	-902.06	1,441.55	0.00	0.00	0.00	
7,200.00	90.00	218.74	6,100.00	-1,202.44	-964.63	1,541.55	0.00	0.00	0.00	
7,300.00	90.00	218.74	6,100.00	-1,280.44	-1,027.21	1,641.55	0.00	0.00	0.00	
7,400.00	90.00	218.74	6,100.00	-1,358.45	-1,089.78	1,741.55	0.00	0.00	0.00	
7,500.00	90.00	218.74	6,100.00	-1,436.45	-1,152.36	1,841.55	0.00	0.00	0.00	
7,600.00	90.00	218.74	6,100.00	-1,514.45	-1,214.93	1,941.55	0.00	0.00	0.00	
7,700.00	90.00	218.74	6,100.00	-1,592.45	-1,277.51	2,041.55	0.00	0.00	0.00	
7,800.00	90.00	218.74	6,100.00	-1,670.45	-1,340.08	2,141.55	0.00	0.00	0.00	
7,900.00	90.00	218.74	6,100.00	-1,748.46	-1,402.66	2,241.55	0.00	0.00	0.00	
8,000.00	90.00	218.74	6,100.00	-1,826.46	-1,465.24	2,341.55	0.00	0.00	0.00	
8,100.00	90.00	218.74	6,100.00	-1,904.46	-1,527.81	2,441.55	0.00	0.00	0.00	
8,200.00	90.00	218.74	6,100.00	-1,982.46	-1,590.39	2,541.55	0.00	0.00	0.00	
8,300.00	90.00	218.74	6,100.00	-2,060.46	-1,652.96	2,641.55	0.00	0.00	0.00	
8,400.00	90.00	218.74	6,100.00	-2,138.47	-1,715.54	2,741.55	0.00	0.00	0.00	
8,500.00	90.00	218.74	6,100.00	-2,216.47	-1,778.11	2,841.55	0.00	0.00	0.00	
8,600.00	90.00	218.74	6,100.00	-2,294.47	-1,840.69	2,941.55	0.00	0.00	0.00	
8,700.00	90.00	218.74	6,100.00	-2,372.47	-1,903.26	3,041.55	0.00	0.00	0.00	
8,800.00	90.00	218.74	6,100.00	-2,450.47	-1,965.84	3,141.55	0.00	0.00	0.00	
8,900.00	90.00	218.74	6,100.00	-2,528.48	-2,028.41	3,241.55	0.00	0.00	0.00	
9,000.00	90.00	218.74	6,100.00	-2,606.48	-2,090.99	3,341.55	0.00	0.00	0.00	
9,100.00	90.00	218.74	6,100.00	-2,684.48	-2,153.57	3,441.55	0.00	0.00	0.00	
9,200.00	90.00	218.74	6,100.00	-2,762.48	-2,216.14	3,541.55	0.00	0.00	0.00	
9,300.00	90.00	218.74	6,100.00	-2,840.48	-2,278.72	3,641.55	0.00	0.00	0.00	
9,324.78	90.00	218.74	6,100.00	-2,859.81	-2,294.22	3,666.33	0.00	0.00	0.00	
PBHL										

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)		
PBHL v8 - VGEU 114		0.00	218.74	6,100.00	-2,859.81	-2,294.22	654,337.13	768,058.20	32° 47' 44.967 N	103° 27' 39.637 W
- plan hits target center										
- Rectangle (sides W60.00 H2,514.33 D40.00)										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")		
9,324.78	6,100.00	5 1/2"	5-1/2	6		

Database:	EDM 5000.1 Conroe-DB	Local Co-ordinate Reference:	Well 114H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3954.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3954.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #8		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,593.00	1,593.00	Rustler		0.00	218.74	
1,685.00	1,685.00	Salado		0.00	218.74	
2,733.00	2,733.00	Tansil		0.00	218.74	
2,864.00	2,864.00	Yates		0.00	218.74	
3,140.00	3,140.00	Seven Rivers		0.00	218.74	
3,504.00	3,504.00	Queen		0.00	218.74	
4,033.00	4,033.00	Grayburg		0.00	218.74	
4,368.00	4,368.00	San Andres		0.00	218.74	
6,144.75	5,954.00	Glorieta		0.00	218.74	
6,554.46	6,070.00	U. Paddock		0.00	218.74	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,110.34	5,110.34	0.00	0.00	KOP, 6.00°/100' Build	
6,443.67	6,050.76	-615.52	-493.79	Begin 80.00° Tangent	
6,643.67	6,085.49	-769.15	-617.04	Begin 6.00°/100' Build	
6,810.34	6,100.00	-898.50	-720.80	Begin 90.00° Lateral	
9,324.78	6,100.00	-2,859.81	-2,294.22	PBHL	



Date:
Version:
Prepared by:

WELL: Vacuum Glorietta East Unit 114H
SURFACE LOC: UL - L - S27 - T17S - R35E 1896' FSL 28' FWL
BH LOC: UL - B - S33 - T17S - R35E 962' FNL 2294' FEL

COUNTY, STATE:
API No.:
NDIC Permit:
BLM Permit: N/A
WH Coord.: LAT 32° 48' 13.07"
(NAD-27) LON 103° 27' 12.48"

AFE:
Drilling Network No.:
Invoice Handler ID:
COST ESTIMATE
DRILLING
COMPLETION
FACILITIES
TOTAL

ELEVATIONS: GL 3,939.9'
KB +14.0' Rig - PD194

FORMATION TOP:	TVD	SUBSEA
12-1/4" X 9-5/8"		
Rustler	1,593	
Salado	1,685	
Tansil	2,733	
Yates	2,864	
Seven Rivers	3,140	
Queen	3,504	
Grayburg	4,033	
San Andres	4,368	
Glorieta	5,954	
Upper Paddock	6,070	
Target	6,100	
Lower Paddock	6,164	

Objective

Notes

Goals

CONTACTS

Office Cell

Drilling Engineer:
Geologist:
Onsite Drilling Rep.:

Drilling Supt.:

Offset logs indicate the presence of the Dunham, Pine, Opeche, and Charles Salts.

DRILLING FLUID:	Type	Interval (MD)	Density ppg	Vis sec/qt	PV cP	YP #100ft ²	pH	FL mL	LGS % by vol	Cl k mg/L	NaCl ppb sol	Remarks
Surface:	Fresh Water/WBM	Surface-1,645'	8.4-8.9									
Intermediate:	Brine	1,645' - 6,825'	10									
Production:	Brine	6,825' - 9,325'	9.0-10.0									

Reference Baroid Drilling Fluids Program

CASING:	Hole	TOP (MD)	BTM (MD)	Length	Size	Wt	Grade	Connection	BOP:	Working	Test
Surface:	12-1/4"	0'	1,640'	1,640'	9-5/8"	36.00	J55	LTC	Annular	3000 psi	2100 psi
Intermediate:	8-3/4"	0'	6,810'	6,810'	7"	23.00	L80	BTC	Double Ram	3000 psi	3000 psi
Production:	6-1/8"	6,810'	9,325'	2,515'			Open Hole				

Reference Drilling Procedure for details on float equipment, centralizers, and liner equipment.

CEMENT:	Hole	MD	TVD	Spacer	Lead	Tail	COMMENTS
Surface:	12-1/4"X9-5/8"	1,640'	1,640'		507 SX	168 SX	TOC Surface
Intermediate:	8-3/4"X7"	6,810'	6100'		387 SX	540 SX	.TOC Surface

Reference Halliburton Cementing Recommendation

DIRECTIONAL PLAN:	Comments	MD (ft)	INC (deg)	AZI (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100')	SEC-T-R	Section Line Distance
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FORMATION EVALUATION:

Mud Logging - One-Man:
Mud Logging - Two-Man:
Open Hole - PEX
Cased Hole - GR/CBL
MWD - GR

Correlation Well:

OUR WORK IS NEVER SO URGENT OR IMPORTANT THAT WE CANNOT TAKE THE TIME TO DO IT SAFELY