

District I -- (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II -- (575) 748-1283
811 S. First St., Artesia, NM 88210
District III -- (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV -- (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-42691
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. A-1320-9
7. Lease Name or Unit Agreement Name Vacuum Glorieta East Unit
8. Well Number 224H
9. OGRID Number 217817
10. Pool name or Wildcat Vacuum; Glorieta

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
ConocoPhillips Company

3. Address of Operator
600 N. Dairy Ashford Rd, P10-3096; Houston, TX 77079

4. Well Location
Unit Letter M : 406 feet from the South line and 1100 feet from the West line
Section 27 Township 17S Range 35E NMPM LEA County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3866' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

ConocoPhillips Company respectfully requests approval to change our approved plan so that we may use an external packer in our upcoming project. The supporting documentation is listed below:

-Revised wellbore schematic (includes changes to casing set depths, use of external packer, and increase in sacks of cement)

Spud Date: 09/24/15

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Susan B. Maunder TITLE Sr. Regulatory Specialist DATE 8/06/15

Type or print name Susan B. Maunder E-mail address: Susan.B.Maunder@cop.com PHONE: 281-206-5281

For State Use Only

APPROVED BY [Signature] TITLE Petroleum Engineer DATE 08/10/15
Conditions of Approval (if any):

AUG 11 2015

[Signature]



Date:
Version:
Prepared by:

WELL: Vacuum Glorieta East Unit 224H

COUNTY, STATE:

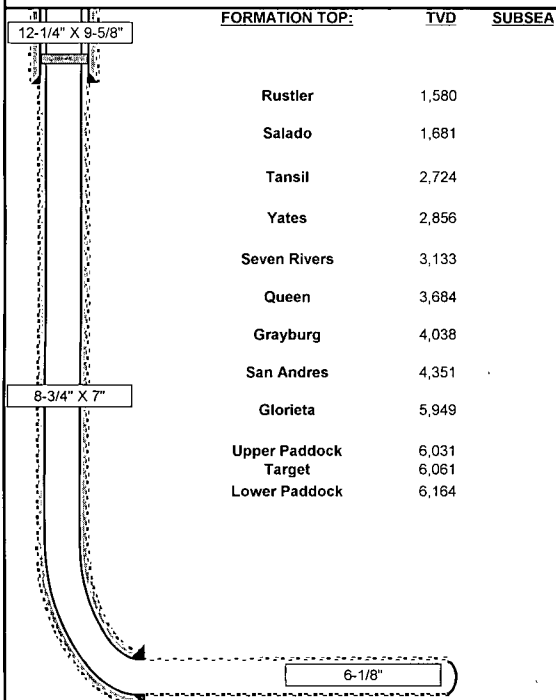
SURFACE LOC: UL - M - S27 - T17S - R35E 406' FSL 1100' FWL
BH LOC: UL - G - S33 - T17S - R35E 1400' FNL 2111' FEL

API No.:
NDIC Permit:
BLM Permit: N/A

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

ELEVATIONS: GL 3,865.5'
KB ~14' Rig - PD194

WH Coord.: LAT 32° 47' 58.34"
(NAD-27) LON 103° 26' 59.91"



Objective

Notes

Goals

CONTACTS

Drilling Engineer:
Geologist:
Onsite Drilling Rep.:

Drilling Supt.:

Office Cell

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 #/100R2	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' - 6,786'	10									
Production:	Brine	6,786' - 9,292'	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'	1,630'	1,630'	9-5/8"	36.00	J55	LTC	Annular	3000 psi	2100 psi
Intermediate:	8-3/4"	0'	6,771'	6,771'	7"	23.00	L80	BTC	Double Ram	3000 psi	3000 psi
Production:	6-1/8"	6,771'	9,292'	2,521'			Open Hole				

7" x 9-5/8" Annulus Casing packer will be set ~100' above surface casing shoe in casing annulus

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"	1,630'	1,630'		441	271	TOC Surface
Intermediate:	8-3/4"X7"	6,771'	6,061		426	586	TOC Surface

Cement Volume will be adjusted based on hole conditions or logs depending on what is well specific.

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 -
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!



Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.69°

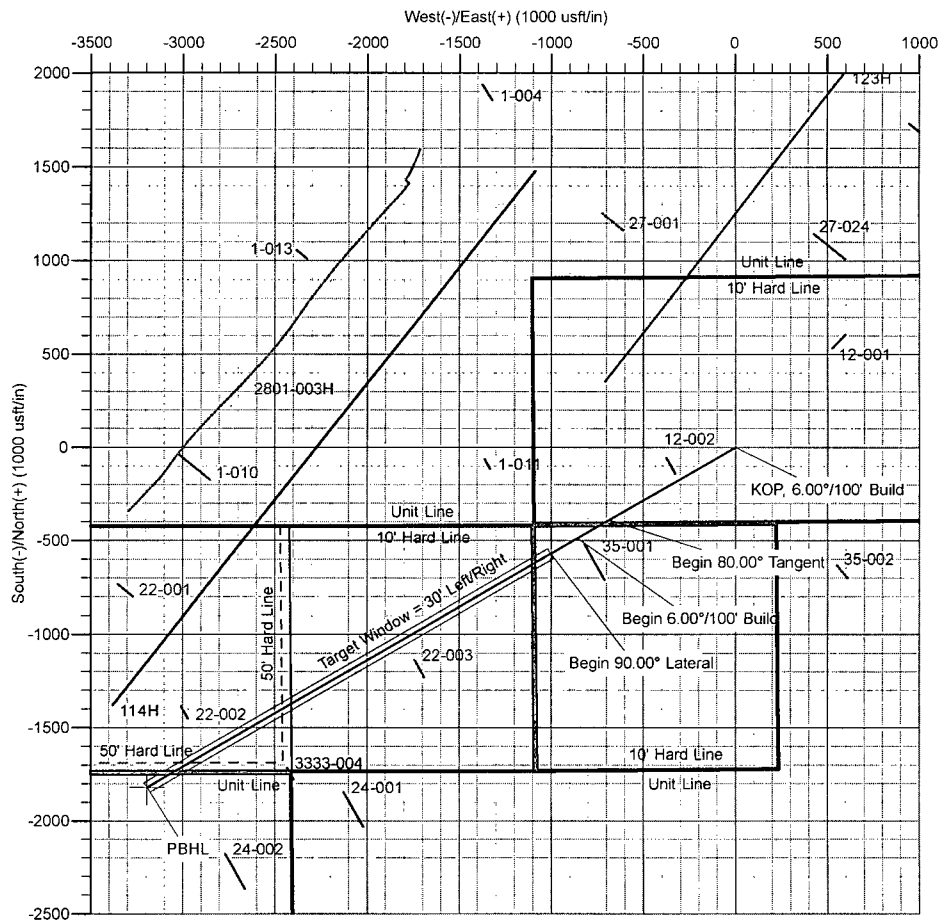
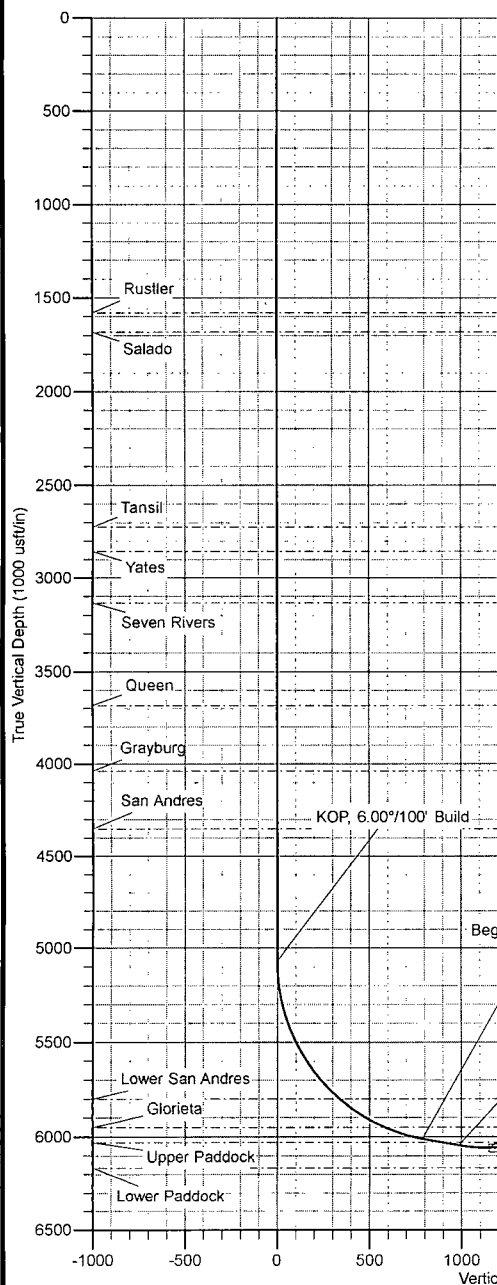
Magnetic Field
Strength: 48551.8snT
Dip Angle: 60.70°
Date: 09/01/2015
Model: BGGM2015

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
5071.34	0.00	0.00	5071.34	0.00	0.00	0.00	0.00	KOP, 6.00°/100' Build
6404.67	80.00	240.34	6011.76	-390.50	-685.71	789.11	789.11	Begin 80.00° Tangent
6604.67	80.00	240.34	6046.49	-487.97	-856.87	986.07	986.07	Begin 6.00°/100' Build
6771.34	90.00	240.34	6061.00	-570.03	-1000.96	1151.89	1151.89	Begin 90.00° Lateral
9292.35	90.00	240.34	6061.00	-1817.58	-3191.65	3672.90	3672.90	PBHL

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

Created By: HLH
Date: 16:25, June 25 2015
Plan: Design #2





ConocoPhillips

Lea County, New Mexico (NAD 27)

VGEU

224H

Wellbore #1

Plan: Design #2

Standard Planning Report

25 June, 2015

Database:	EDM 5000.1 Conroe-DB	Local Co-ordinate Reference:	Well 224H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3880.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3880.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	224H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	224H		
Well Position	+N/-S 655,716.37 usft	Northing: 655,716.37 usft	Latitude: 32° 47' 58.336 N
	+E/-W 771,437.74 usft	Easting: 771,437.74 usft	Longitude: 103° 26' 59.914 W
Position Uncertainty	0.00 usft	Wellhead Elevation: 0.00 usft	Ground Level: 3,866.00 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	48,552

Design	Design #2		
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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	240.34

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	
5,071.34	0.00	0.00	5,071.34	0.00	0.00	0.00	0.00	0.00	0.00	
6,404.67	80.00	240.34	6,011.76	-390.50	-685.71	6.00	6.00	0.00	240.34	PBHL v2 - VGEU 2
6,604.67	80.00	240.34	6,046.49	-487.97	-856.87	0.00	0.00	0.00	0.00	
6,771.34	90.00	240.34	6,061.00	-570.03	-1,000.96	6.00	6.00	0.00	0.00	
9,292.35	90.00	240.34	6,061.00	-1,817.58	-3,191.65	0.00	0.00	0.00	0.00	PBHL v2 - VGEU 2

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 224H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3880.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD:27)	MD Reference:	WELL @ 3880.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	224H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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
1,580.00	0.00	0.00	1,580.00	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
1,681.00	0.00	0.00	1,681.00	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
2,724.00	0.00	0.00	2,724.00	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
2,856.00	0.00	0.00	2,856.00	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
3,133.00	0.00	0.00	3,133.00	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
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,684.00	0.00	0.00	3,684.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
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 224H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3880.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3880.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	224H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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)
4,038.00	0.00	0.00	4,038.00	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
4,351.00	0.00	0.00	4,351.00	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
5,071.34	0.00	0.00	5,071.34	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 6.00°/100' Build									
5,100.00	1.72	240.34	5,100.00	-0.21	-0.37	0.43	6.00	6.00	0.00
5,150.00	4.72	240.34	5,149.91	-1.60	-2.81	3.24	6.00	6.00	0.00
5,200.00	7.72	240.34	5,199.61	-4.28	-7.52	8.65	6.00	6.00	0.00
5,250.00	10.72	240.34	5,248.96	-8.25	-14.48	16.66	6.00	6.00	0.00
5,300.00	13.72	240.34	5,297.82	-13.48	-23.68	27.25	6.00	6.00	0.00
5,350.00	16.72	240.34	5,346.06	-19.98	-35.08	40.37	6.00	6.00	0.00
5,400.00	19.72	240.34	5,393.55	-27.71	-48.66	56.00	6.00	6.00	0.00
5,450.00	22.72	240.34	5,440.15	-36.67	-64.39	74.10	6.00	6.00	0.00
5,500.00	25.72	240.34	5,485.75	-46.82	-82.21	94.61	6.00	6.00	0.00
5,550.00	28.72	240.34	5,530.21	-58.13	-102.08	117.47	6.00	6.00	0.00
5,600.00	31.72	240.34	5,573.41	-70.59	-123.95	142.64	6.00	6.00	0.00
5,650.00	34.72	240.34	5,615.23	-84.14	-147.75	170.03	6.00	6.00	0.00
5,700.00	37.72	240.34	5,655.56	-98.76	-173.42	199.57	6.00	6.00	0.00
5,750.00	40.72	240.34	5,694.30	-114.40	-200.89	231.18	6.00	6.00	0.00
5,800.00	43.72	240.34	5,731.32	-131.03	-230.08	264.77	6.00	6.00	0.00
5,850.00	46.72	240.34	5,766.54	-148.59	-260.92	300.26	6.00	6.00	0.00
5,900.00	49.72	240.34	5,799.85	-167.04	-293.31	337.54	6.00	6.00	0.00
5,900.24	49.72	240.34	5,800.00	-167.13	-293.47	337.72	0.00	0.00	0.00
Lower San Andres									
5,950.00	52.72	240.34	5,831.16	-186.32	-327.18	376.51	6.03	6.03	0.00
6,000.00	55.72	240.34	5,860.39	-206.39	-362.42	417.07	6.00	6.00	0.00
6,050.00	58.72	240.34	5,887.46	-227.19	-398.95	459.10	6.00	6.00	0.00
6,100.00	61.72	240.34	5,912.29	-248.67	-436.66	502.50	6.00	6.00	0.00
6,150.00	64.72	240.34	5,934.81	-270.75	-475.44	547.13	6.00	6.00	0.00
6,184.55	66.79	240.34	5,949.00	-286.34	-502.81	578.63	6.00	6.00	0.00
Glorieta									
6,200.00	67.72	240.34	5,954.97	-293.39	-515.19	592.88	6.00	6.00	0.00
6,250.00	70.72	240.34	5,972.71	-316.52	-555.81	639.62	6.00	6.00	0.00
6,300.00	73.72	240.34	5,987.98	-340.08	-597.18	687.23	6.00	6.00	0.00
6,350.00	76.72	240.34	6,000.73	-364.00	-639.19	735.57	6.00	6.00	0.00
6,404.67	80.00	240.34	6,011.76	-390.50	-685.71	789.11	6.00	6.00	0.00
Begin 80.00° Tangent									
6,500.00	80.00	240.34	6,028.32	-436.96	-767.29	882.99	0.00	0.00	0.00
6,515.46	80.00	240.34	6,031.00	-444.49	-780.52	898.21	0.00	0.00	0.00
Upper Paddock									
6,604.67	80.00	240.34	6,046.49	-487.97	-856.87	986.07	0.00	0.00	0.00
Begin 6.00°/100' Build									

Database:	EDM 5000.1 Conroe DB	Local Co-ordinate Reference:	Well 224H
Company:	ConocoPhillips	TVD Reference:	WELL @ 3880.00usft (Precision 194)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3880.00usft (Precision 194)
Site:	VGEU	North Reference:	Grid
Well:	224H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

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	82.72	240.34	6,053.30	-510.14	-895.80	1,030.88	6.00	6.00	0.00
6,700.00	85.72	240.34	6,058.34	-534.76	-939.03	1,080.62	6.00	6.00	0.00
6,750.00	88.72	240.34	6,060.76	-559.47	-982.42	1,130.55	6.00	6.00	0.00
6,771.34	90.00	240.34	6,061.00	-570.03	-1,000.96	1,151.89	6.00	6.00	0.00
Begin 90.00° Lateral									
6,800.00	90.00	240.34	6,061.00	-584.21	-1,025.87	1,180.55	0.00	0.00	0.00
6,900.00	90.00	240.34	6,061.00	-633.70	-1,112.76	1,280.55	0.00	0.00	0.00
7,000.00	90.00	240.34	6,061.00	-683.18	-1,199.66	1,380.55	0.00	0.00	0.00
7,100.00	90.00	240.34	6,061.00	-732.67	-1,286.56	1,480.55	0.00	0.00	0.00
7,200.00	90.00	240.34	6,061.00	-782.15	-1,373.45	1,580.55	0.00	0.00	0.00
7,300.00	90.00	240.34	6,061.00	-831.64	-1,460.35	1,680.55	0.00	0.00	0.00
7,400.00	90.00	240.34	6,061.00	-881.13	-1,547.25	1,780.55	0.00	0.00	0.00
7,500.00	90.00	240.34	6,061.00	-930.61	-1,634.15	1,880.55	0.00	0.00	0.00
7,600.00	90.00	240.34	6,061.00	-980.10	-1,721.04	1,980.55	0.00	0.00	0.00
7,700.00	90.00	240.34	6,061.00	-1,029.59	-1,807.94	2,080.55	0.00	0.00	0.00
7,800.00	90.00	240.34	6,061.00	-1,079.07	-1,894.84	2,180.55	0.00	0.00	0.00
7,900.00	90.00	240.34	6,061.00	-1,128.56	-1,981.73	2,280.55	0.00	0.00	0.00
8,000.00	90.00	240.34	6,061.00	-1,178.04	-2,068.63	2,380.55	0.00	0.00	0.00
8,100.00	90.00	240.34	6,061.00	-1,227.53	-2,155.53	2,480.55	0.00	0.00	0.00
8,200.00	90.00	240.34	6,061.00	-1,277.02	-2,242.43	2,580.55	0.00	0.00	0.00
8,300.00	90.00	240.34	6,061.00	-1,326.50	-2,329.32	2,680.55	0.00	0.00	0.00
8,400.00	90.00	240.34	6,061.00	-1,375.99	-2,416.22	2,780.55	0.00	0.00	0.00
8,500.00	90.00	240.34	6,061.00	-1,425.47	-2,503.12	2,880.55	0.00	0.00	0.00
8,600.00	90.00	240.34	6,061.00	-1,474.96	-2,590.01	2,980.55	0.00	0.00	0.00
8,700.00	90.00	240.34	6,061.00	-1,524.45	-2,676.91	3,080.55	0.00	0.00	0.00
8,800.00	90.00	240.34	6,061.00	-1,573.93	-2,763.81	3,180.55	0.00	0.00	0.00
8,900.00	90.00	240.34	6,061.00	-1,623.42	-2,850.71	3,280.55	0.00	0.00	0.00
9,000.00	90.00	240.34	6,061.00	-1,672.91	-2,937.60	3,380.55	0.00	0.00	0.00
9,100.00	90.00	240.34	6,061.00	-1,722.39	-3,024.50	3,480.55	0.00	0.00	0.00
9,200.00	90.00	240.34	6,061.00	-1,771.88	-3,111.40	3,580.55	0.00	0.00	0.00
9,292.35	90.00	240.34	6,061.00	-1,817.58	-3,191.65	3,672.90	0.00	0.00	0.00
PBHL - 5 1/2"									

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
PBHL v2 - VGEU 224	- plan hits target center	0.00	240.34	6,061.00	-1,817.58	-3,191.65	653,898.79	768,246.09	32° 47' 40.614 N	103° 27' 37.479 W
	- Rectangle (sides W60.00 H2,521.01 D40.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
9,292.35	6,061.00	5 1/2"	5-1/2	6

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Site:	VGEU	North Reference:	Grid
Well:	224H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,580.00	1,580.00	Rustler		0.00	240.65	
1,681.00	1,681.00	Salado		0.00	240.65	
2,724.00	2,724.00	Tansil		0.00	240.65	
2,856.00	2,856.00	Yates		0.00	240.65	
3,133.00	3,133.00	Seven Rivers		0.00	240.65	
3,684.00	3,684.00	Queen		0.00	240.65	
4,038.00	4,038.00	Grayburg		0.00	240.65	
4,351.00	4,351.00	San Andres		0.00	240.65	
5,900.24	5,800.00	Lower San Andres		0.00	240.65	
6,184.55	5,949.00	Glorieta		0.00	240.65	
6,515.46	6,031.00	Upper Paddock		0.00	240.65	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,071.34	5,071.34	0.00	0.00	KOP, 6.00°/100' Build	
6,404.67	6,011.76	-390.50	-685.71	Begin 80.00° Tangent	
6,604.67	6,046.49	-487.97	-856.87	Begin 6.00°/100' Build	
6,771.34	6,061.00	-570.03	-1,000.96	Begin 90.00° Lateral	
9,292.35	6,061.00	-1,817.58	-3,191.65	PBHL	