

Submit 1 Copy To Appropriate
District Office
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

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-42714
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-1497
7. Lease Name or Unit Agreement Name Vacuum Glorieta East Unit
8. Well Number 522
9. OGRID Number 217817
10. Pool name or Wildcat Vacuum; Grayburg, San Andres
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3940' GL

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 ☐ Injection	
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 <u>L</u> : <u>2130</u> feet from the <u>South</u> line and <u>1120</u> feet from the <u>West</u> line Section <u>27</u> Township <u>17S</u> Range <u>35E</u> NMPM LEA County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3940' 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 plans for this well. Engineering has determined that an external packer will assist in achieving desired cement results. Engineering has also determined that a different directional path will provide efficiencies.

- The proposed wellbore schematic is attached that includes the use of a specialty packer (TDAP) and an external packer (ACP).
- Updated directional well plan. Thank you for your time spent reviewing this request.

Spud Date: 11/25/15 Rig Release Date:

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

SIGNATURE: Original signed by Susan B. Maunder TITLE Sr. Regulatory Specialist DATE 11/19/15

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 11/30/15
Conditions of Approval (if any):

NOV 30 2015

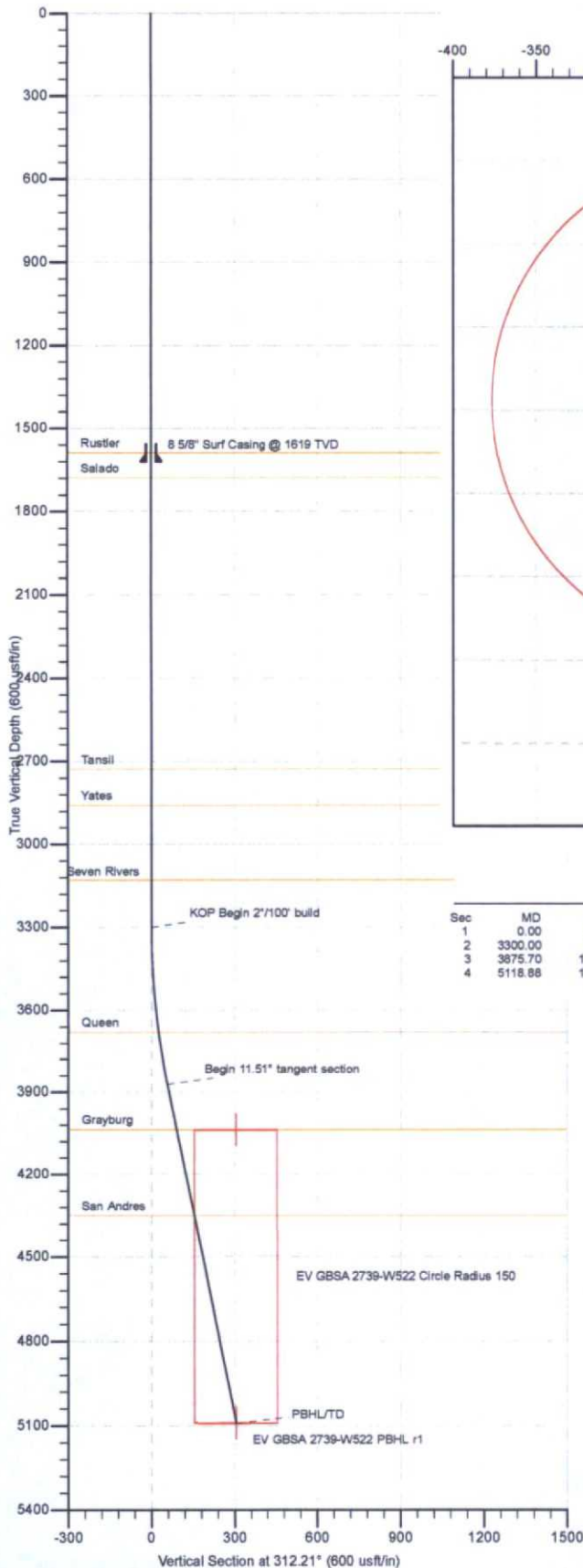
Well Name County, State Field Objective Rig RKB TD, ft Goal Days		EVGBSAU 2739-W522 Lea, New Mexico Vacuum San Andres PD 194 14.5 5,119 5				API # Permit # Permit Date AFE # Network # WBL/TCEQ # FW Protection MSPS, psi	3002542714 217817 7/30/15 WA5.CBC.031H 10383489 12268 0' - 1,595' 1,498
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EVGBSAU 2739-W522

WELLBORE SECTION	MUD PROG	MUD WEIGHT	FORMATIONS	PP, ppg	FG, ppg	TVD	CASING SPECS	CEMENT	FIT	REMARKS
COND						56				
SURFACE (12-1/4")	Spud - WBM	8.3 ppg	Rustler	8.33	19.23	1,589	Lead: TDAP @ 250' 8-5/8", 24#/ft J-55, STC	13.6 ppg (175 bbls) TOC = surface		
			Surface TD			1,614	Tail: ACP @ 1,400'	14.8 ppg (50 bbls) Top of Tail = 1,080'	12.0 ppg	
			Salado	8.33	17.40	1,680		Lead: 11.5 ppg (220 bbls) TOC = surface		SaltWashout
			Tansill Yates	8.33 8.90	16.50 14.80	2,730 2,860				Possible Gas Flow
Production (7-7/8")	Brine	10.0 ppg	Seven Rivers	8.33	14.80	3,130				Directional Plan KOP @ 3,330' MD/TVD - BR 27°/100' EOBR @ 3,876' MD/ 3,872' TVD Inclination @ EOBR: 11.51° BHL @ 5,119' MD/ 5,090' TVD
			Queen	8.33	15.40	3,680	KOP @ 3,330'			
			Grayburg	6.50	13.44	4,037	BR @ 27°/100'			
			San Andres	6.30	14.40	4,350	Hold 111.5 Inc	Tail: 13.2 ppg (50 bbls) Top of Tail = 4,100'		
			Production TD		14.45	5,090	5-1/2", 15.5#/ft J-55, LTC	Displacement: FW+Biocide		



Well: Well 2739-W522
 Site: East Vacuum GBSA Unit
 Project: Lea County, New Mexico
 Design: rev2
 Rig: PD 194



Section Details										Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 2°/100' build Begin 11.51° tangent section PBHL/TD
2	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	
3	3875.70	11.51	312.21	3871.83	38.73	-42.70	2.00	312.21	57.65	
4	5118.88	11.51	312.21	5090.00	205.44	-226.51	0.00	0.00	305.80	

Surface Location: RKB=3944+14 @ 3958.00usft (PD 194)
 US State Plane 1927 (Exact solution)
 New Mexico East 3001

Northing	Easting	Latitude	Longitude
657440.10	771442.24	32° 48' 15.390502 N	103° 26' 59.692879 W

Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 6.67°

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1589.00	1589.00	Rustler
1680.00	1680.00	Salado
2730.00	2730.00	Tansil
2860.00	2860.00	Yates
3130.00	3130.00	Seven Rivers
3680.00	3681.12	Queen
4037.00	4044.26	Grayburg
4350.00	4363.69	San Andres



Azimuths to Grid North
 True North: -0.48°
 Magnetic North: 6.67°

Magnetic Field
 Strength: 48592.0snT
 Dip Angle: 60.70°
 Date: 11/18/2015
 Model: USER DEFINED





Standard_report

Company: Project: Site: Well: Wellbore: Design:	ConocoPhillips Lea County, New Mexico East Vacuum GBSA Unit Well 2739-W522 Original hole rev2	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Well 2739-W522 RKB=3944+14 @ 3958.00usft (PD 194) RKB=3944+14 @ 3958.00usft (PD 194) Grid Minimum Curvature Dbase Nov0914
Project	Lea County, New Mexico	System Datum:	Mean Sea Level
Map System: Geo Datum: Map Zone:	US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS) New Mexico East 3001		
Site	East Vacuum GBSA Unit		
Site Position: From: Position Uncertainty:	Map 0.00 usft	Northing: Easting: Slot Radius:	652,841.86 usft 764,633.16 usft 13-3/16 "
		Latitude: Longitude: Grid Convergence:	32° 47' 30.449677 N 103° 28' 19.901020 W 0.47 °
Well	Well 2739-W522		
Well Position Position Uncertainty	+N/-S +E/-W 0.00 usft 0.00 usft 0.00 usft	Northing: Easting: Wellhead Elevation:	657,440.10 usft 771,442.24 usft usft
		Latitude: Longitude: Ground Level:	32° 48' 15.390502 N 103° 26' 59.692879 W 3,944.00 usft
Wellbore	Original hole		
Magnetics	Model Name IGRF2010 User Defined	Sample Date 4/22/2014 11/18/2015	Declination (°) 7.22 7.15
			Dip Angle (°) 60.67 60.70
			Field Strength (nT) 48,688 48,592
Design	rev2		
Audit Notes: Version:	Phase: PLAN	Tie On Depth: 0.00	
Vertical Section:	Depth From (TVD) (usft) 0.00	+N/-S (usft) 0.00	Direction (°) 312.21

Company: ConocoPhillips
Project: Lea County, New Mexico
Site: East Vacuum GBSA Unit
Well: Well 2739-W522
Wellbore: Original hole
Design: rev2

Local Co-ordinate Reference:
TVD Reference: RKB=3944+14 @ 3958.00ustf (PD 194)
MD Reference: RKB=3944+14 @ 3958.00ustf (PD 194)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Survey Tool Program		Date	11/18/2015
From (ustf)	To (ustf)	Survey (Wellbore)	
0.00	5,118.88	rev2 (Original hole)	MWD
		MWD - Standard	

Planned Survey									
MD (ustf)	Inc (")	Azi (azimuth) (")	TVD (ustf)	N/S (ustf)	E/W (ustf)	DLeg ("/100ustf)	V. Sec (ustf)	Northing (ustf)	Easting (ustf)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,589.00	0.00	0.00	1,589.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
Rustler									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,619.00	0.00	0.00	1,619.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
8 5/8" Surf Casing @ 1619 TVD									
1,680.00	0.00	0.00	1,680.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
Salado									

Company: ConocoPhillips
Project: Lea County, New Mexico
Site: East Vacuum GBSA Unit
Well: Well 2739-W522
Wellbore: Original hole
Design: rev2

Local Co-ordinate Reference:
TVD Reference: RKB=3944+14 @ 3958.00usft (PD 194)
MD Reference: RKB=3944+14 @ 3958.00usft (PD 194)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Dbase Nov0914

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,730.00	0.00	0.00	2,730.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
Tansil									
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
2,860.00	0.00	0.00	2,860.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
Yates									
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
3,130.00	0.00	0.00	3,130.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
Seven Rivers									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	657,440.10	771,442.24
KOP Begin 2"/100' build									
3,400.00	2.00	312.21	3,399.98	1.17	-1.29	2.00	1.75	657,441.27	771,440.95
3,500.00	4.00	312.21	3,499.84	4.69	-5.17	2.00	6.98	657,444.79	771,437.07
3,600.00	6.00	312.21	3,599.45	10.54	-11.62	2.00	15.69	657,450.64	771,430.62

Company: ConocoPhillips
Project: Lea County, New Mexico
Site: East Vacuum GBSA Unit
Well: Well 2739-W522
Wellbore: Original hole
Design: rev2

Local Co-ordinate Reference:
 Well Well 2739-W522
 RKB=3944+14 @ 3958.00usft (PD 194)
 RKB=3944+14 @ 3958.00usft (PD 194)
TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:
 Grid
 Minimum Curvature
 Dbase Nov0914

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
3,681.12	7.62	312.21	3,680.00	17.01	-18.75	2.00	25.31	657,457.11	771,423.49
Queen									
3,700.00	8.00	312.21	3,698.70	18.73	-20.65	2.00	27.88	657,458.83	771,421.59
3,800.00	10.00	312.21	3,797.47	29.24	-32.24	2.00	43.52	657,469.34	771,410.00
3,875.70	11.51	312.21	3,871.83	38.73	-42.70	2.00	57.65	657,478.83	771,399.54
Begin 11.51° tangent section									
3,900.00	11.51	312.21	3,895.64	41.99	-46.30	0.00	62.50	657,482.09	771,395.94
4,000.00	11.51	312.21	3,993.63	55.40	-61.08	0.00	82.46	657,495.50	771,381.16
4,044.26	11.51	312.21	4,037.00	61.33	-67.62	0.00	91.30	657,501.43	771,374.62
Grayburg									
4,100.00	11.51	312.21	4,091.62	68.81	-75.87	0.00	102.42	657,508.91	771,366.37
4,200.00	11.51	312.21	4,189.61	82.22	-90.65	0.00	122.38	657,522.32	771,351.59
4,300.00	11.51	312.21	4,287.59	95.63	-105.44	0.00	142.34	657,535.73	771,336.80
4,363.69	11.51	312.21	4,350.00	104.17	-114.85	0.00	155.06	657,544.27	771,327.39
San Andres									
4,400.00	11.51	312.21	4,385.58	109.04	-120.22	0.00	162.30	657,549.14	771,322.02
4,500.00	11.51	312.21	4,483.57	122.45	-135.01	0.00	182.27	657,562.55	771,307.23
4,600.00	11.51	312.21	4,581.56	135.86	-149.79	0.00	202.23	657,575.96	771,292.45
4,700.00	11.51	312.21	4,679.55	149.27	-164.58	0.00	222.19	657,589.37	771,277.66
4,800.00	11.51	312.21	4,777.53	162.68	-179.36	0.00	242.15	657,602.78	771,262.88
4,900.00	11.51	312.21	4,875.52	176.09	-194.15	0.00	262.11	657,616.19	771,248.09
5,000.00	11.51	312.21	4,973.51	189.50	-208.93	0.00	282.07	657,629.60	771,233.31
5,100.00	11.51	312.21	5,071.50	202.91	-223.72	0.00	302.03	657,643.01	771,218.52
5,118.88	11.51	312.21	5,090.00	205.44	-226.51	0.00	305.80	657,645.54	771,215.73
PBHL/TO									



Standard_report

Company: ConocoPhillips
Project: Lea County, New Mexico
Site: East Vacuum GBSA Unit
Well: Well 2739-W522
Design: Original hole
rev2

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Well 2739-W522
RKB=3944+14 @ 3958.00usft (PD 194)
RKB=3944+14 @ 3958.00usft (PD 194)
Grid
Minimum Curvature
Dbase Nov0914

Casing Points			
Measured Depth (usft)	Vertical Depth (usft)	Casing Diameter (")	Hole Diameter (")
1,619.00	1,619.00	8-5/8	12-1/4

Formations			
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology
1,589.00	1,589.00	Rustler	
1,680.00	1,680.00	Salado	
2,730.00	2,730.00	Tansil	
2,860.00	2,860.00	Yates	
3,130.00	3,130.00	Seven Rivers	
3,681.12	3,680.00	Queen	
4,044.26	4,037.00	Grayburg	
4,363.69	4,350.00	San Andres	

Plan Annotations			
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates	
		+N-S (usft)	+E-W (usft)
3,300.00	3,300.00	0.00	0.00
3,875.70	3,871.83	38.73	-42.70
5,118.88	5,090.00	205.44	-226.51
			Comment
			KOP Begin 2'100' build
			Begin 11.51° tangent section
			PBHL/TD