

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address CONOCOPHILLIPS COMPANY P.O. BOX 2197, HOUSTON, TX 77252		² OGRID Number 217817	
		³ Reason for Filing Code/ Effective Date RT/ 1/26/21	
⁴ API Number 30 – 025-44234	⁵ Pool Name ZIA HILLS; WOLFCAMP		⁶ Pool Code 98081
⁷ Property Code 320074	⁸ Property Name ZIA HILLS 19 FEDERAL COM		⁹ Well Number 107H

II. 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
2	19	26S	32E		2627	NORTH	496	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	31	26S	32E		50	SOUTH	660	WEST	LEA
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

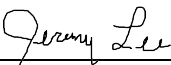
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
14021	MARATHON	O
174238	ENTERPRISE	G

IV. Well Completion Data

²¹ Spud Date 1-11-20	²² Ready Date 12-31-20	²³ TD 6-1-20	²⁴ PBTD 21,930	²⁵ Perforations 11,675 – 21,853	²⁶ DHC, MC N/A
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17.5”		13.375”		1191’	1916 SXS
12.25”		9.625”		11,675’	1855 SXS
8.5”		5.5”		21,918	4165 SXS

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature:  Printed name: JEREMY LEE Title: REGULATORY COORDINATOR E-mail Address: JEREMY.L.LEE@COP.COM Date: 1/26/21 Phone: 832-486-2510			OIL CONSERVATION DIVISION		
			Approved by: KURT SIMMONS		
			Title: NMOCD, Santa Fe		
			Approval Date: 04/22/2021		
			RT C-104 EXPIRES 07/21/2021 (90 DAYS)		

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.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44234	² Pool Code 98081	³ Pool Name Zia Hills; Wolfcamp
⁴ Property Code 320074	⁵ Property Name ZIA HILLS 19 FEDERAL COM	⁶ Well Number 107H
⁷ OGRID No. 217817	⁸ Operator Name ConocoPhillips Company	⁹ Elevation 3178.2'

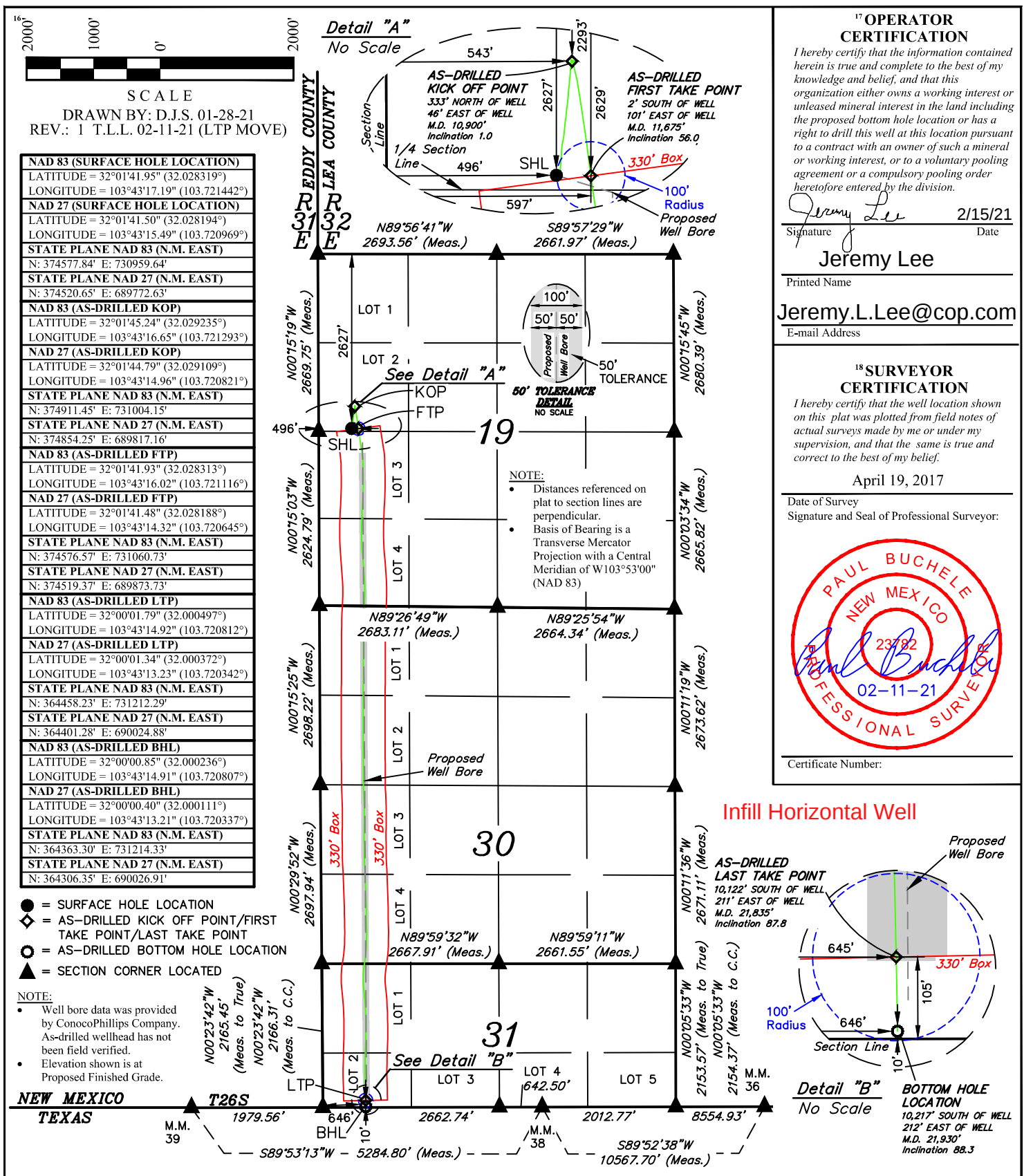
¹⁰Surface Location

UL or lot no. 2	Section 19	Township 26S	Range 32E	Lot Idn	Feet from the 2627	North/South line NORTH	Feet from the 496	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. 2	Section 31	Township 26S	Range 32E	Lot Idn	Feet from the 10	North/South line SOUTH	Feet from the 646	East/West line WEST	County LEA
¹² Dedicated Acres 348.11		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.



ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001

ZIA HILLS 19 Federal Com 107H

ZIA HILLS 19 Federal Com 107H

OH / 65858

Survey: Phoenix MWD Surveys

Standard Survey Report

02 June, 2020

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Project	Planning - NM East State Zone - 3001, Permian Basin - New Mexico - East/South East, Planning Project for Permian wells in NM Zone 3001		
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		Using geodetic scale factor

Site	ZIA HILLS 19 Federal Com 107H		
Site Position:		Northing:	374,520.650 usft
From:	Map	Easting:	689,772.630 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 41.495 N
		Longitude:	103° 43' 15.495 W
		Grid Convergence:	0.32 °

Well	ZIA HILLS 19 Federal Com 107H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 1' 41.495 N
		Longitude:	103° 43' 15.495 W
		Ground Level:	3,178.20 ft

Wellbore	OH / 65858				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2018	2/18/2020	6.82	59.74	47,558.70758339

Design	Surveys (Nabors 894)			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	178.50

Survey Program	Date	6/2/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
71.40	1,072.00	VES Gyro Surveys (OH / 65858)	GOOD GYRO	GOOD GYRO
1,072.00	21,930.00	Phoenix MWD Surveys (OH / 65858)	MWD+IFR1+MS_CoP	Fixed:v2:Eagleford, crustal dec + 3-axis corr.

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,072.00	1.04	205.54	1,071.94	-6.48	7.17	6.67	0.00	0.00	0.00
Tie In									
1,222.00	1.33	250.23	1,221.91	-8.30	4.94	8.42	0.63	0.19	29.79
First Phoenix MWD Survey									
1,313.00	1.38	259.54	1,312.88	-8.85	2.87	8.93	0.25	0.05	10.23
1,405.00	1.42	261.43	1,404.86	-9.22	0.66	9.24	0.07	0.04	2.05
1,495.00	0.22	317.73	1,494.85	-9.26	-0.56	9.24	1.46	-1.33	62.56
1,586.00	1.51	67.17	1,585.84	-8.67	0.43	8.68	1.75	1.42	120.26
1,677.00	0.92	35.01	1,676.82	-7.60	1.95	7.65	0.97	-0.65	-35.34

ConocoPhillips

Survey Report

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Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,766.00	0.84	358.58	1,765.81	-6.37	2.34	6.43	0.62	-0.09	-40.93	
1,861.00	0.69	357.58	1,860.80	-5.10	2.30	5.16	0.16	-0.16	-1.05	
1,955.00	0.57	338.13	1,954.79	-4.10	2.10	4.15	0.26	-0.13	-20.69	
2,049.00	0.39	281.91	2,048.79	-3.60	1.62	3.64	0.51	-0.19	-59.81	
2,143.00	0.24	250.12	2,142.79	-3.60	1.12	3.63	0.24	-0.16	-33.82	
2,237.00	0.56	209.39	2,236.79	-4.07	0.71	4.09	0.44	0.34	-43.33	
2,331.00	0.87	183.63	2,330.78	-5.18	0.44	5.19	0.47	0.33	-27.40	
2,426.00	0.82	172.60	2,425.77	-6.57	0.48	6.58	0.18	-0.05	-11.61	
2,520.00	0.85	169.67	2,519.76	-7.93	0.69	7.94	0.06	0.03	-3.12	
2,614.00	0.83	177.50	2,613.75	-9.29	0.85	9.31	0.12	-0.02	8.33	
2,707.00	0.76	169.84	2,706.74	-10.57	0.98	10.60	0.14	-0.08	-8.24	
2,802.00	0.76	166.94	2,801.73	-11.81	1.24	11.84	0.04	0.00	-3.05	
2,895.00	0.69	172.00	2,894.72	-12.96	1.45	13.00	0.10	-0.08	5.44	
2,989.00	0.61	169.45	2,988.72	-14.02	1.63	14.05	0.09	-0.09	-2.71	
3,084.00	0.62	175.17	3,083.71	-15.02	1.76	15.07	0.07	0.01	6.02	
3,176.00	0.47	160.02	3,175.71	-15.88	1.93	15.92	0.22	-0.16	-16.47	
3,270.00	0.56	43.12	3,269.71	-15.90	2.38	15.96	0.94	0.10	-124.36	
3,364.00	0.98	34.43	3,363.70	-14.90	3.15	14.98	0.46	0.45	-9.24	
3,459.00	1.00	27.12	3,458.68	-13.50	3.98	13.60	0.13	0.02	-7.69	
3,552.00	0.92	29.02	3,551.67	-12.12	4.72	12.24	0.09	-0.09	2.04	
3,645.00	0.91	44.13	3,644.66	-10.94	5.59	11.08	0.26	-0.01	16.25	
3,740.00	0.75	48.01	3,739.65	-9.98	6.58	10.15	0.18	-0.17	4.08	
3,834.00	0.62	61.28	3,833.64	-9.32	7.48	9.52	0.22	-0.14	14.12	
3,928.00	0.67	88.70	3,927.64	-9.07	8.48	9.29	0.33	0.05	29.17	
4,022.00	0.82	107.39	4,021.63	-9.26	9.67	9.51	0.30	0.16	19.88	
4,116.00	0.94	111.89	4,115.62	-9.74	11.03	10.03	0.15	0.13	4.79	
4,211.00	0.46	75.43	4,210.61	-9.94	12.12	10.25	0.67	-0.51	-38.38	
4,304.00	0.53	8.93	4,303.61	-9.42	12.55	9.75	0.59	0.08	-71.51	
4,399.00	0.48	353.20	4,398.60	-8.59	12.57	8.92	0.15	-0.05	-16.56	
4,493.00	0.41	356.97	4,492.60	-7.86	12.50	8.19	0.08	-0.07	4.01	
4,587.00	0.28	348.00	4,586.60	-7.30	12.44	7.63	0.15	-0.14	-9.54	
4,681.00	0.32	350.41	4,680.60	-6.82	12.35	7.14	0.04	0.04	2.56	
4,776.00	0.29	352.15	4,775.60	-6.32	12.27	6.64	0.03	-0.03	1.83	
4,870.00	0.10	333.10	4,869.60	-6.01	12.20	6.33	0.21	-0.20	-20.27	
4,964.00	0.12	305.21	4,963.60	-5.88	12.08	6.20	0.06	0.02	-29.67	
5,058.00	0.70	1.09	5,057.59	-5.25	12.01	5.56	0.68	0.62	59.45	
5,153.00	2.04	1.75	5,152.56	-2.98	12.08	3.30	1.41	1.41	0.69	
5,247.00	3.66	358.61	5,246.44	1.69	12.05	-1.38	1.73	1.72	-3.34	
5,342.00	5.60	357.75	5,341.13	9.35	11.80	-9.04	2.04	2.04	-0.91	
5,436.00	7.49	1.96	5,434.51	20.06	11.83	-19.75	2.07	2.01	4.48	
5,530.00	8.18	4.95	5,527.64	32.85	12.61	-32.51	0.85	0.73	3.18	
5,625.00	8.42	4.14	5,621.64	46.52	13.70	-46.14	0.28	0.25	-0.85	
5,719.00	8.53	3.40	5,714.61	60.34	14.61	-59.94	0.16	0.12	-0.79	

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,814.00	8.46	3.28	5,808.57	74.35	15.43	-73.92	0.08	-0.07	-0.13
5,907.00	8.45	8.17	5,900.56	87.94	16.79	-87.48	0.77	-0.01	5.26
6,002.00	8.67	11.27	5,994.50	101.88	19.18	-101.34	0.54	0.23	3.26
6,095.00	8.31	6.65	6,086.49	115.43	21.33	-114.83	0.83	-0.39	-4.97
6,189.00	8.25	5.47	6,179.51	128.89	22.76	-128.25	0.19	-0.06	-1.26
6,283.00	8.19	5.79	6,272.54	142.26	24.08	-141.58	0.08	-0.06	0.34
6,377.00	8.30	6.17	6,365.57	155.67	25.48	-154.95	0.13	0.12	0.40
6,471.00	8.17	6.22	6,458.60	169.05	26.93	-168.29	0.14	-0.14	0.05
6,565.00	8.06	6.31	6,551.66	182.24	28.38	-181.44	0.12	-0.12	0.10
6,659.00	8.03	6.72	6,644.73	195.31	29.88	-194.46	0.07	-0.03	0.44
6,753.00	8.04	7.14	6,737.81	208.36	31.46	-207.46	0.06	0.01	0.45
6,848.00	7.80	5.11	6,831.90	221.37	32.86	-220.43	0.39	-0.25	-2.14
6,942.00	7.52	3.75	6,925.07	233.86	33.83	-232.90	0.35	-0.30	-1.45
7,036.00	7.58	4.70	7,018.25	246.18	34.74	-245.18	0.15	0.06	1.01
7,130.00	7.22	5.29	7,111.47	258.24	35.79	-257.21	0.39	-0.38	0.63
7,223.00	7.02	5.37	7,203.75	269.72	36.86	-268.66	0.22	-0.22	0.09
7,317.00	6.74	4.93	7,297.07	280.93	37.88	-279.84	0.30	-0.30	-0.47
7,410.00	6.21	5.13	7,389.48	291.38	38.80	-290.26	0.57	-0.57	0.22
7,504.00	5.60	3.37	7,482.98	301.02	39.52	-299.88	0.68	-0.65	-1.87
7,598.00	5.42	4.16	7,576.55	310.03	40.11	-308.87	0.21	-0.19	0.84
7,692.00	4.30	4.18	7,670.21	317.97	40.69	-316.79	1.19	-1.19	0.02
7,786.00	3.05	4.51	7,764.01	323.98	41.14	-322.79	1.33	-1.33	0.35
7,878.00	1.87	3.09	7,855.93	327.92	41.42	-326.72	1.28	-1.28	-1.54
7,972.00	1.53	3.04	7,949.88	330.70	41.57	-329.50	0.36	-0.36	-0.05
8,066.00	1.25	357.64	8,043.86	332.98	41.59	-331.77	0.33	-0.30	-5.74
8,160.00	0.97	0.19	8,137.84	334.80	41.55	-333.60	0.30	-0.30	2.71
8,255.00	0.70	357.82	8,232.83	336.18	41.53	-334.98	0.29	-0.28	-2.49
8,348.00	0.53	11.17	8,325.82	337.17	41.59	-335.97	0.24	-0.18	14.35
8,442.00	0.11	0.85	8,419.82	337.69	41.68	-336.48	0.45	-0.45	-10.98
8,535.00	0.46	116.65	8,512.82	337.61	42.01	-336.39	0.56	0.38	124.52
8,629.00	0.76	102.27	8,606.82	337.31	42.96	-336.07	0.36	0.32	-15.30
8,724.00	0.59	107.55	8,701.81	337.03	44.04	-335.76	0.19	-0.18	5.56
8,818.00	0.58	126.50	8,795.80	336.60	44.89	-335.31	0.21	-0.01	20.16
8,912.00	0.88	130.84	8,889.80	335.84	45.81	-334.53	0.32	0.32	4.62
9,007.00	0.87	122.54	8,984.79	334.98	46.97	-333.63	0.13	-0.01	-8.74
9,100.00	1.31	103.66	9,077.77	334.35	48.60	-332.96	0.60	0.47	-20.30
9,194.00	2.26	84.14	9,171.72	334.28	51.49	-332.82	1.19	1.01	-20.77
9,288.00	2.20	74.74	9,265.65	334.95	55.07	-333.39	0.39	-0.06	-10.00
9,382.00	1.26	59.23	9,359.61	335.95	57.70	-334.32	1.11	-1.00	-16.50
9,476.00	0.58	212.42	9,453.60	336.08	58.34	-334.44	1.91	-0.72	162.97
9,571.00	0.81	209.42	9,548.60	335.09	57.75	-333.46	0.25	0.24	-3.16
9,666.00	0.90	242.27	9,643.59	334.15	56.76	-332.55	0.52	0.09	34.58

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
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Survey									
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9,760.00	1.31	250.57	9,737.57	333.45	55.09	-331.90	0.47	0.44	8.83
9,854.00	1.65	256.03	9,831.54	332.77	52.77	-331.27	0.39	0.36	5.81
9,949.00	1.71	255.20	9,926.50	332.08	50.07	-330.65	0.07	0.06	-0.87
10,043.00	1.79	253.03	10,020.45	331.29	47.31	-329.94	0.11	0.09	-2.31
10,138.00	1.66	259.04	10,115.41	330.60	44.54	-329.32	0.23	-0.14	6.33
10,233.00	0.88	270.85	10,210.38	330.35	42.46	-329.12	0.86	-0.82	12.43
10,327.00	0.65	339.17	10,304.38	330.85	41.55	-329.65	0.94	-0.24	72.68
10,419.00	0.66	27.04	10,396.37	331.81	41.60	-330.61	0.58	0.01	52.03
10,513.00	0.35	3.90	10,490.37	332.58	41.87	-331.37	0.39	-0.33	-24.62
10,608.00	0.60	34.24	10,585.37	333.28	42.17	-332.07	0.36	0.26	31.94
10,702.00	0.36	53.84	10,679.36	333.86	42.68	-332.63	0.31	-0.26	20.85
10,796.00	0.68	76.97	10,773.36	334.16	43.46	-332.91	0.40	0.34	24.61
10,842.00	0.51	116.17	10,819.36	334.14	43.91	-332.87	0.94	-0.37	85.22
10,906.00	1.05	136.52	10,883.35	333.58	44.57	-332.30	0.94	0.84	31.80
10,937.00	2.13	150.80	10,914.34	332.88	45.05	-331.58	3.68	3.48	46.06
10,969.00	3.55	157.97	10,946.30	331.44	45.71	-330.13	4.57	4.44	22.41
11,001.00	4.77	158.61	10,978.21	329.28	46.57	-327.95	3.82	3.81	2.00
11,032.00	6.15	162.83	11,009.07	326.49	47.53	-325.14	4.63	4.45	13.61
11,063.00	7.68	166.56	11,039.85	322.89	48.50	-321.51	5.14	4.94	12.03
11,094.00	9.54	165.88	11,070.49	318.39	49.61	-316.98	6.01	6.00	-2.19
11,126.00	12.23	164.97	11,101.92	312.54	51.13	-311.09	8.42	8.41	-2.84
11,157.00	15.39	164.63	11,132.02	305.40	53.08	-303.91	10.20	10.19	-1.10
11,188.00	18.51	165.75	11,161.67	296.66	55.38	-295.11	10.12	10.06	3.61
11,219.00	22.00	167.50	11,190.74	286.22	57.85	-284.61	11.43	11.26	5.65
11,251.00	24.64	169.32	11,220.13	273.81	60.38	-272.14	8.55	8.25	5.69
11,282.00	27.05	170.64	11,248.03	260.50	62.73	-258.77	7.99	7.77	4.26
11,314.00	29.49	171.12	11,276.21	245.54	65.13	-243.75	7.66	7.63	1.50
11,346.00	32.79	170.73	11,303.59	229.20	67.74	-227.35	10.33	10.31	-1.22
11,377.00	36.47	170.74	11,329.10	211.82	70.57	-209.90	11.87	11.87	0.03
11,409.00	39.09	171.46	11,354.39	192.45	73.60	-190.46	8.30	8.19	2.25
11,440.00	40.96	171.63	11,378.12	172.73	76.53	-170.67	6.04	6.03	0.55
11,471.00	43.04	171.35	11,401.16	152.22	79.60	-150.08	6.74	6.71	-0.90
11,503.00	45.13	171.34	11,424.14	130.21	82.95	-127.99	6.53	6.53	-0.03
11,534.00	46.91	171.90	11,445.67	108.14	86.20	-105.85	5.89	5.74	1.81
11,565.00	48.76	172.15	11,466.48	85.39	89.39	-83.02	6.00	5.97	0.81
11,596.00	50.92	172.35	11,486.47	61.91	92.58	-59.47	6.99	6.97	0.65
11,627.00	52.86	172.76	11,505.60	37.73	95.74	-35.21	6.34	6.26	1.32
11,641.00	53.66	172.33	11,513.98	26.61	97.20	-24.05	6.22	5.71	-3.07
11,705.00	58.01	171.81	11,549.91	-25.83	104.51	28.56	6.83	6.80	-0.81
11,735.00	62.55	171.25	11,564.78	-51.59	108.35	54.41	15.22	15.13	-1.87
11,765.00	65.61	170.88	11,577.89	-78.24	112.54	81.16	10.26	10.20	-1.23
11,826.00	69.17	171.95	11,601.34	-133.91	120.94	137.03	6.06	5.84	1.75
11,856.00	70.38	171.82	11,611.71	-161.78	124.91	165.00	4.05	4.03	-0.43

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
11,901.00	74.95	170.52	11,625.11	-204.22	131.51	207.59	10.52	10.16	-2.89
11,947.00	78.71	170.21	11,635.59	-248.37	139.01	251.92	8.20	8.17	-0.67
11,992.00	79.16	169.85	11,644.23	-291.86	146.65	295.60	1.27	1.00	-0.80
12,037.00	79.94	171.39	11,652.39	-335.52	153.86	339.44	3.79	1.73	3.42
12,082.00	83.98	171.85	11,658.68	-379.60	160.35	383.66	9.03	8.98	1.02
12,127.00	87.30	174.14	11,662.11	-424.12	165.82	428.32	8.95	7.38	5.09
12,174.00	89.88	177.01	11,663.26	-470.96	169.45	475.23	8.21	5.49	6.11
12,221.00	90.08	178.43	11,663.28	-517.92	171.32	522.23	3.05	0.43	3.02
12,315.00	90.27	178.38	11,662.99	-611.88	173.93	616.23	0.21	0.20	-0.05
12,408.00	90.13	178.07	11,662.67	-704.84	176.81	709.23	0.37	-0.15	-0.33
12,502.00	88.19	179.67	11,664.04	-798.80	178.67	803.21	2.68	-2.06	1.70
12,595.00	91.70	180.57	11,664.13	-891.79	178.47	896.15	3.90	3.77	0.97
12,689.00	90.50	182.92	11,662.33	-985.72	175.61	989.98	2.81	-1.28	2.50
12,783.00	88.87	182.53	11,662.85	-1,079.61	171.14	1,083.72	1.78	-1.73	-0.41
12,878.00	88.32	182.15	11,665.18	-1,174.50	167.26	1,178.47	0.70	-0.58	-0.40
12,972.00	89.10	182.22	11,667.29	-1,268.41	163.68	1,272.26	0.83	0.83	0.07
13,067.00	89.81	182.58	11,668.20	-1,363.32	159.70	1,367.03	0.84	0.75	0.38
13,161.00	87.33	181.64	11,670.54	-1,457.22	156.24	1,460.81	2.82	-2.64	-1.00
13,255.00	86.89	178.89	11,675.28	-1,551.09	155.81	1,554.63	2.96	-0.47	-2.93
13,349.00	87.18	178.80	11,680.14	-1,644.94	157.70	1,648.50	0.32	0.31	-0.10
13,444.00	86.61	177.73	11,685.29	-1,739.76	160.57	1,743.36	1.27	-0.60	-1.13
13,537.00	90.76	175.61	11,687.42	-1,832.55	165.97	1,836.27	5.01	4.46	-2.28
13,632.00	90.41	174.21	11,686.45	-1,927.17	174.40	1,931.07	1.52	-0.37	-1.47
13,725.00	91.11	175.68	11,685.22	-2,019.79	182.60	2,023.88	1.75	0.75	1.58
13,819.00	90.64	175.05	11,683.78	-2,113.47	190.19	2,117.73	0.84	-0.50	-0.67
13,913.00	93.47	176.74	11,680.41	-2,207.16	196.92	2,211.56	3.51	3.01	1.80
14,007.00	93.53	176.19	11,674.67	-2,300.81	202.70	2,305.32	0.59	0.06	-0.59
14,101.00	94.92	179.39	11,667.75	-2,394.47	206.32	2,399.05	3.70	1.48	3.40
14,196.00	95.03	180.21	11,659.51	-2,489.11	206.65	2,493.66	0.87	0.12	0.86
14,221.00	95.25	180.59	11,657.27	-2,514.01	206.47	2,518.55	1.75	0.88	1.52
14,314.00	90.61	181.79	11,652.52	-2,606.84	204.54	2,611.30	5.15	-4.99	1.29
14,408.00	90.38	182.50	11,651.70	-2,700.77	201.03	2,705.10	0.79	-0.24	0.76
14,502.00	90.24	182.60	11,651.20	-2,794.67	196.84	2,798.87	0.18	-0.15	0.11
14,595.00	88.74	181.11	11,652.02	-2,887.61	193.83	2,891.70	2.27	-1.61	-1.60
14,688.00	88.31	180.52	11,654.42	-2,980.57	192.51	2,984.59	0.78	-0.46	-0.63
14,782.00	87.93	180.72	11,657.50	-3,074.52	191.49	3,078.48	0.46	-0.40	0.21
14,877.00	87.54	180.35	11,661.26	-3,169.44	190.61	3,173.34	0.57	-0.41	-0.39
14,972.00	88.50	180.41	11,664.54	-3,264.38	189.98	3,268.23	1.01	1.01	0.06
15,066.00	87.60	179.73	11,667.74	-3,358.32	189.86	3,362.14	1.20	-0.96	-0.72
15,160.00	90.65	178.88	11,669.17	-3,452.29	191.00	3,456.11	3.37	3.24	-0.90
15,254.00	90.79	179.58	11,667.99	-3,546.28	192.27	3,550.09	0.76	0.15	0.74
15,348.00	90.85	179.38	11,666.65	-3,640.26	193.12	3,644.07	0.22	0.06	-0.21

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,442.00	90.84	179.93	11,665.26	-3,734.25	193.68	3,738.04	0.59	-0.01	0.59
15,537.00	91.66	180.86	11,663.19	-3,829.22	193.03	3,832.96	1.30	0.86	0.98
15,631.00	91.25	180.64	11,660.80	-3,923.19	191.80	3,926.86	0.49	-0.44	-0.23
15,725.00	91.06	180.82	11,658.91	-4,017.16	190.60	4,020.77	0.28	-0.20	0.19
15,819.00	90.04	180.43	11,658.00	-4,111.15	189.58	4,114.70	1.16	-1.09	-0.41
15,913.00	90.01	178.19	11,657.96	-4,205.13	190.71	4,208.69	2.38	-0.03	-2.38
16,007.00	90.36	180.58	11,657.66	-4,299.12	191.72	4,302.67	2.57	0.37	2.54
16,102.00	90.81	179.32	11,656.69	-4,394.11	191.80	4,397.63	1.41	0.47	-1.33
16,196.00	90.79	180.72	11,655.38	-4,488.10	191.77	4,491.58	1.49	-0.02	1.49
16,290.00	89.99	179.71	11,654.74	-4,582.10	191.42	4,585.54	1.37	-0.85	-1.07
16,383.00	91.79	179.29	11,653.29	-4,675.08	192.23	4,678.51	1.99	1.94	-0.45
16,477.00	91.79	179.31	11,650.36	-4,769.03	193.38	4,772.45	0.02	0.00	0.02
16,572.00	91.42	179.36	11,647.69	-4,863.98	194.48	4,867.41	0.39	-0.39	0.05
16,666.00	90.90	179.09	11,645.79	-4,957.95	195.75	4,961.38	0.62	-0.55	-0.29
16,760.00	90.85	177.71	11,644.36	-5,051.90	198.37	5,055.37	1.47	-0.05	-1.47
16,854.00	91.18	180.15	11,642.69	-5,145.87	200.13	5,149.34	2.62	0.35	2.60
16,949.00	90.96	182.37	11,640.92	-5,240.82	198.04	5,244.21	2.35	-0.23	2.34
17,043.00	90.45	177.89	11,639.76	-5,334.79	197.83	5,338.14	4.80	-0.54	-4.77
17,136.00	90.30	177.65	11,639.15	-5,427.72	201.44	5,431.13	0.30	-0.16	-0.26
17,231.00	89.79	176.91	11,639.08	-5,522.61	205.95	5,526.11	0.95	-0.54	-0.78
17,325.00	89.22	177.26	11,639.89	-5,616.48	210.73	5,620.07	0.71	-0.61	0.37
17,419.00	88.25	178.09	11,641.96	-5,710.38	214.55	5,714.04	1.36	-1.03	0.88
17,513.00	90.10	180.58	11,643.32	-5,804.35	215.64	5,808.01	3.30	1.97	2.65
17,607.00	91.44	180.08	11,642.05	-5,898.34	215.09	5,901.95	1.52	1.43	-0.53
17,700.00	91.33	180.45	11,639.81	-5,991.31	214.66	5,994.88	0.41	-0.12	0.40
17,794.00	91.52	181.32	11,637.47	-6,085.27	213.21	6,088.77	0.95	0.20	0.93
17,889.00	89.50	177.74	11,636.62	-6,180.24	213.99	6,183.73	4.33	-2.13	-3.77
17,983.00	90.70	179.29	11,636.46	-6,274.21	216.43	6,277.72	2.09	1.28	1.65
18,076.00	90.88	179.43	11,635.18	-6,367.19	217.47	6,370.70	0.25	0.19	0.15
18,170.00	90.75	179.43	11,633.84	-6,461.18	218.40	6,464.68	0.14	-0.14	0.00
18,265.00	89.84	176.31	11,633.35	-6,556.10	221.93	6,559.66	3.42	-0.96	-3.28
18,359.00	90.38	176.32	11,633.17	-6,649.90	227.97	6,653.59	0.57	0.57	0.01
18,454.00	90.38	178.17	11,632.54	-6,744.79	232.54	6,748.56	1.95	0.00	1.95
18,548.00	89.84	177.69	11,632.36	-6,838.73	235.94	6,842.56	0.77	-0.57	-0.51
18,642.00	90.53	177.53	11,632.06	-6,932.64	239.86	6,936.55	0.75	0.73	-0.17
18,737.00	90.35	177.71	11,631.33	-7,027.56	243.80	7,031.53	0.27	-0.19	0.19
18,831.00	90.72	178.28	11,630.45	-7,121.50	247.09	7,125.52	0.72	0.39	0.61
18,925.00	90.41	178.86	11,629.52	-7,215.46	249.43	7,219.52	0.70	-0.33	0.62
19,019.00	90.22	178.80	11,629.00	-7,309.44	251.35	7,313.52	0.21	-0.20	-0.06
19,113.00	91.21	179.24	11,627.83	-7,403.42	252.96	7,407.50	1.15	1.05	0.47
19,207.00	89.01	177.52	11,627.65	-7,497.37	255.62	7,501.49	2.97	-2.34	-1.83
19,300.00	89.99	180.41	11,628.46	-7,590.34	257.30	7,594.48	3.28	1.05	3.11
19,394.00	89.64	180.21	11,628.77	-7,684.34	256.79	7,688.43	0.43	-0.37	-0.21

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
19,488.00	89.25	181.80	11,629.68	-7,778.32	255.14	7,782.33	1.74	-0.41	1.69
19,583.00	90.44	184.43	11,629.93	-7,873.17	249.98	7,877.01	3.04	1.25	2.77
19,677.00	90.38	187.79	11,629.26	-7,966.62	239.98	7,970.17	3.57	-0.06	3.57
19,771.00	91.04	188.94	11,628.10	-8,059.61	226.30	8,062.77	1.41	0.70	1.22
19,864.00	89.59	185.68	11,627.58	-8,151.83	214.47	8,154.66	3.84	-1.56	-3.51
19,958.00	89.98	181.12	11,627.94	-8,245.64	208.90	8,248.29	4.87	0.41	-4.85
20,052.00	90.42	178.39	11,627.61	-8,339.63	209.30	8,342.25	2.94	0.47	-2.90
20,146.00	89.08	172.65	11,628.02	-8,433.30	216.64	8,436.08	6.27	-1.43	-6.11
20,240.00	90.82	174.41	11,628.10	-8,526.70	227.23	8,529.72	2.63	1.85	1.87
20,334.00	91.91	175.40	11,625.86	-8,620.30	235.58	8,623.51	1.57	1.16	1.05
20,428.00	91.68	176.96	11,622.92	-8,714.04	241.83	8,717.38	1.68	-0.24	1.66
20,520.00	92.19	177.95	11,619.81	-8,805.89	245.92	8,809.31	1.21	0.55	1.08
20,614.00	92.71	178.03	11,615.79	-8,899.75	249.21	8,903.22	0.56	0.55	0.09
20,708.00	91.79	179.56	11,612.10	-8,993.65	251.19	8,997.15	1.90	-0.98	1.63
20,803.00	91.70	180.18	11,609.21	-9,088.61	251.40	9,092.08	0.66	-0.09	0.65
20,897.00	91.30	180.58	11,606.75	-9,182.57	250.78	9,185.99	0.60	-0.43	0.43
20,992.00	90.42	181.01	11,605.32	-9,277.55	249.46	9,280.90	1.03	-0.93	0.45
21,085.00	91.30	181.57	11,603.93	-9,370.52	247.37	9,373.78	1.12	0.95	0.60
21,179.00	88.75	181.60	11,603.89	-9,464.47	244.77	9,467.64	2.71	-2.71	0.03
21,273.00	88.70	181.46	11,605.98	-9,558.42	242.26	9,561.48	0.16	-0.05	-0.15
21,367.00	89.47	180.68	11,607.48	-9,652.39	240.50	9,655.38	1.17	0.82	-0.83
21,461.00	88.04	178.55	11,609.52	-9,746.36	241.13	9,749.33	2.73	-1.52	-2.27
21,555.00	87.78	178.19	11,612.95	-9,840.25	243.81	9,843.26	0.47	-0.28	-0.38
21,648.00	87.41	178.05	11,616.85	-9,933.12	246.85	9,936.18	0.43	-0.40	-0.15
21,742.00	87.52	178.41	11,621.01	-10,026.99	249.75	10,030.09	0.40	0.12	0.38
21,835.00	87.82	178.52	11,624.79	-10,119.88	252.24	10,123.01	0.34	0.32	0.12
21,863.00	88.25	178.82	11,625.75	-10,147.85	252.89	10,150.99	1.87	1.54	1.07
Final Phoenix MWD Survey									
21,930.00	88.25	178.82	11,627.80	-10,214.81	254.27	10,217.96	0.00	0.00	0.00
Projection to TD									

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 107H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 107H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 107H	North Reference:	Grid
Wellbore:	OH / 65858	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
VT - Zia Hills 19 Fed Cor	0.00	0.01	7,981.02	-49.48	164.43	374,471.170	689,937.050	32° 1' 40.996 N	103° 43' 13.588 W
- survey misses target center by 400.19ft at 7993.95ft MD (7971.82 TVD, 331.27 N, 41.59 E)									
- Point									
ZIA HILLS 19 107H_WP	0.00	0.00	10,885.8	-99.48	164.86	374,421.180	689,937.480	32° 1' 40.502 N	103° 43' 13.586 W
- survey misses target center by 449.31ft at 10920.22ft MD (10897.56 TVD, 333.33 N, 44.77 E)									
- Point									
LTP - Zia Hills 19 Fed Cor	0.00	0.01	11,681.00	-9,894.58	264.66	364,626.580	690,037.280	32° 0' 3.567 N	103° 43' 13.072 W
- survey misses target center by 68.47ft at 21612.79ft MD (11615.30 TVD, -9897.97 N, 245.67 E)									
- Point									
BHL - Zia Hills 19 Fed Cor	0.00	0.01	11,681.00	-10,174.53	267.75	364,346.650	690,040.370	32° 0' 0.797 N	103° 43' 13.055 W
- survey misses target center by 63.13ft at 21863.00ft MD (11625.75 TVD, -10147.85 N, 252.89 E)									
- Point									
FTP - Zia Hills 19 Fed Cor	0.00	0.01	11,683.00	-372.90	167.18	374,147.770	689,939.800	32° 1' 37.796 N	103° 43' 13.577 W
- survey misses target center by 25.97ft at 12079.82ft MD (11658.45 TVD, -377.46 N, 160.05 E)									
- Point									
LTP v1 - Zia Hills 19 Fed	0.00	0.00	11,683.00	-10,125.23	267.23	364,395.943	690,039.846	32° 0' 1.285 N	103° 43' 13.058 W
- survey misses target center by 59.83ft at 21842.69ft MD (11625.08 TVD, -10127.56 N, 252.44 E)									
- Point									
BHL v1 - Zia Hills 19 Fed	0.00	0.00	11,683.00	-10,214.52	268.16	364,306.657	690,040.776	32° 0' 0.401 N	103° 43' 13.053 W
- survey misses target center by 56.92ft at 21930.00ft MD (11627.80 TVD, -10214.81 N, 254.27 E)									
- Point									
ZIA HILLS 19 107H_WP	0.00	0.01	11,685.81	-10,174.53	267.75	364,346.650	690,040.370	32° 0' 0.797 N	103° 43' 13.055 W
- survey misses target center by 67.38ft at 21863.00ft MD (11625.75 TVD, -10147.85 N, 252.89 E)									
- Point									

Casing Points					
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
	1,154.08	1,154.00	13 3/8"	13-3/8	17-1/2
	11,673.99	11,533.00	9 5/8"	9-5/8	12-1/4
	21,516.00	11,611.48	5 1/2"	5-1/2	8-3/4

Survey Annotations					
	Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
			+N/-S (ft)	+E/-W (ft)	
	1,072.00	1,071.94	-6.48	7.17	Tie In
	1,222.00	1,221.91	-8.30	4.94	First Phoenix MWD Survey
	21,863.00	11,625.75	-10,147.85	252.89	Final Phoenix MWD Survey
	21,930.00	11,627.80	-10,214.81	254.27	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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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
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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

CONDITIONS

Action 20863

CONDITIONS OF APPROVAL

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX79701				OGRID: 217817	Action Number: 20863	Action Type: C-104C
OCD Reviewer				Condition		
ksimmons				None		