



PHOENIX
TECHNOLOGY SERVICES

May 20, 2020

Oil Conservation Division
State of New Mexico
1625 N. French Drive
District 1 - Hobbs
Hobbs, New Mexico 88240

Attention: Regulatory Department

Re: Conoco Phillips
Zia Hills 19 Federal Com 106H
Lea County, NM
API #30-025-44233
Job No. 65857

RECEIVED
JUN 26 2020
HOBBS OGD

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Nathan Tatum	106H	1,223	22,003	2/5/20	5/14/20	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 65857
Client: Conoco Phillips
County & State: Lea, NM
Well: Zia Hills 19 Federal Com 106H
API No: 30-025-44233
Proposed Direction: 180.16°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
1075.00 ft	1074.92 ft	0.95°	209.98°	10.85 S	3.81 E	Gyro
Data Source Company:						VES Survey International

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
5-Feb-20	1,223 ft	1.32°	240.45°

Last Survey Date	Last Survey Depth	INC	AZM
14-May-20	22,003 ft	90.35°	176.97°

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
14-May-20	22,070 ft	90.35°	176.97°

Survey Instrument Type

Velocity

CORRECTION INFORMATION

Magnetic Declination Used	6.67 degrees
Grid Convergence Used	0.32 degrees
Total Correction	6.35 degrees

Corrected to True/Grid North

Grid North

Nathan Tatum

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

Signature

5/15/2020

Date

ConocoPhillips MCBU - Permian-Panhandle Gold Data

Planning - NM East State Zone - 3001

ZIA HILLS 19 Federal Com 106H

ZIA HILLS 19 Federal Com 106H

OH / 65857

Survey: Phoenix MWD Surveys

Standard Survey Report

18 May, 2020

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 106H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	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 106H		
Site Position:		Northing:	374,520.500 usft
From:	Map	Easting:	689,739.670 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 41.496 N
		Longitude:	103° 43' 15.878 W
		Grid Convergence:	0.32 °

Well	ZIA HILLS 19 Federal Com 106H		
Well Position	+N/-S	0.00 ft	Northing: 374,520.500 usft
	+E/-W	0.00 ft	Easting: 689,739.670 usft
Position Uncertainty		0.00 ft	Wellhead Elevation: ft
			Latitude: 32° 1' 41.496 N
			Longitude: 103° 43' 15.878 W
			Ground Level: 3,178.20 ft

Wellbore	OH / 65857		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2018	2/18/2020	6.82
			Dip Angle (°) 59.74
			Field Strength (nT) 47,558.69155216

Design	Surveys (Nabors 894)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°) 180.16

Survey Program	Date 5/15/2020		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
72.57	1,075.00	VES - Gyro Surveys (OH / 65857)	GOOD GYRO
1,075.00	22,070.00	Phoenix MWD Surveys (OH / 65857)	MWD+HFR1+MS_CoP
			Description
			GOOD GYRO
			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)
1,075.00	0.95	209.98	1,074.92	-10.85	3.81	10.84	0.00	0.00	0.00
Tie In									
1,223.00	1.32	240.45	1,222.89	-12.75	1.71	12.75	0.47	0.25	20.59
First Phoenix MWD Survey									
1,314.00	1.51	246.86	1,313.86	-13.74	-0.30	13.74	0.27	0.21	7.04
1,405.00	0.54	74.10	1,404.85	-14.10	-0.99	14.10	2.25	-1.07	-189.85
1,496.00	1.32	66.76	1,495.84	-13.56	0.38	13.56	0.87	0.86	-8.07
1,587.00	1.45	53.38	1,586.82	-12.46	2.27	12.46	0.38	0.14	-14.70
1,677.00	1.67	51.53	1,676.78	-10.97	4.21	10.96	0.25	0.24	-2.06

ConocoPhillips Survey Report

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Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	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)
1,767.00	0.35	72.78	1,766.77	-10.07	5.50	10.06	1.50	-1.47	23.61
1,861.00	0.14	250.79	1,860.77	-10.02	5.67	10.01	0.52	-0.22	189.37
1,955.00	0.16	242.57	1,954.77	-10.12	5.44	10.11	0.03	0.02	-8.74
2,049.00	0.36	229.60	2,048.76	-10.37	5.10	10.36	0.22	0.21	-13.80
2,144.00	0.57	218.67	2,143.76	-10.94	4.58	10.92	0.24	0.22	-11.51
2,238.00	0.79	210.75	2,237.75	-11.86	3.96	11.85	0.25	0.23	-8.43
2,332.00	0.82	207.18	2,331.75	-13.01	3.32	13.00	0.06	0.03	-3.80
2,426.00	0.59	212.76	2,425.74	-14.02	2.75	14.01	0.26	-0.24	5.94
2,520.00	0.38	210.78	2,519.73	-14.69	2.33	14.69	0.22	-0.22	-2.11
2,615.00	0.44	205.51	2,614.73	-15.29	2.01	15.29	0.07	0.06	-5.55
2,708.00	0.47	212.20	2,707.73	-15.94	1.65	15.93	0.07	0.03	7.19
2,802.00	0.56	206.73	2,801.73	-16.68	1.24	16.67	0.11	0.10	-5.82
2,896.00	0.53	197.54	2,895.72	-17.50	0.90	17.50	0.10	-0.03	-9.78
2,990.00	0.39	173.44	2,989.72	-18.23	0.81	18.23	0.25	-0.15	-25.64
3,084.00	0.48	184.74	3,083.72	-18.94	0.81	18.94	0.13	0.10	12.02
3,177.00	0.38	160.55	3,176.71	-19.62	0.88	19.62	0.22	-0.11	-26.01
3,270.00	0.26	148.12	3,269.71	-20.09	1.10	20.09	0.15	-0.13	-13.37
3,365.00	0.24	162.98	3,364.71	-20.47	1.27	20.46	0.07	-0.02	15.64
3,459.00	0.73	87.96	3,458.71	-20.63	1.92	20.63	0.75	0.52	-79.81
3,553.00	1.12	77.84	3,552.70	-20.42	3.42	20.41	0.45	0.41	-10.77
3,646.00	1.43	91.62	3,645.67	-20.26	5.47	20.24	0.47	0.33	14.82
3,740.00	0.77	93.93	3,739.65	-20.34	7.27	20.31	0.70	-0.70	2.46
3,835.00	0.32	116.59	3,834.65	-20.50	8.15	20.47	0.52	-0.47	23.85
3,929.00	0.98	131.71	3,928.64	-21.15	8.98	21.12	0.72	0.70	16.09
4,022.00	0.54	83.78	4,021.64	-21.63	10.01	21.60	0.79	-0.47	-51.54
4,116.00	0.62	28.77	4,115.63	-21.14	10.69	21.11	0.57	0.09	-58.52
4,211.00	0.51	38.39	4,210.63	-20.36	11.20	20.32	0.15	-0.12	10.13
4,305.00	1.11	347.42	4,304.62	-19.14	11.27	19.11	0.94	0.64	-54.22
4,400.00	1.45	343.79	4,399.59	-17.09	10.73	17.06	0.37	0.36	-3.82
4,493.00	1.35	346.42	4,492.57	-14.89	10.14	14.86	0.13	-0.11	2.83
4,587.00	1.39	346.48	4,586.54	-12.71	9.62	12.68	0.04	0.04	0.06
4,681.00	1.16	341.74	4,680.52	-10.70	9.05	10.67	0.27	-0.24	-5.04
4,776.00	1.02	337.78	4,775.50	-9.00	8.43	8.98	0.17	-0.15	-4.17
4,871.00	1.06	338.59	4,870.48	-7.41	7.76	7.39	0.05	0.04	-1.25
4,965.00	1.42	340.83	4,964.46	-5.51	7.04	5.49	0.39	0.38	4.51
5,059.00	2.30	342.19	5,058.41	-2.62	6.08	2.60	0.94	0.94	1.45
5,153.00	3.28	344.19	5,152.30	1.77	4.77	-1.78	1.05	1.04	2.13
5,247.00	4.07	346.53	5,246.10	7.60	3.26	-7.61	0.86	0.84	2.49
5,342.00	5.53	5.53	5,340.77	15.43	2.91	-15.44	2.25	1.54	20.00
5,436.00	7.11	348.75	5,434.21	25.65	2.21	-25.66	2.57	1.68	-17.85
5,530.00	8.53	350.08	5,527.33	38.22	-0.12	-38.22	1.52	1.51	1.41
5,625.00	8.88	350.08	5,621.24	52.39	-2.60	-52.38	0.37	0.37	0.00
5,719.00	8.45	349.43	5,714.16	66.32	-5.12	-66.31	0.47	-0.46	-0.69

ConocoPhillips

Survey Report

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Wellbore:	OH / 65857	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	8.35	349.42	5,808.15	79.96	-7.66	-79.94	0.11	-0.11	-0.01
5,908.00	8.05	349.25	5,901.18	93.14	-10.14	-93.11	0.32	-0.32	-0.18
6,002.00	8.00	350.30	5,994.26	108.05	-12.47	-106.02	0.16	-0.05	1.12
6,096.00	7.66	350.18	6,087.39	118.67	-14.64	-118.63	0.36	-0.36	-0.13
6,189.00	7.37	348.83	6,179.59	130.63	-16.86	-130.59	0.37	-0.31	-1.45
6,283.00	8.13	350.31	6,272.73	143.10	-19.14	-143.05	0.84	0.81	1.57
6,377.00	8.43	353.07	6,365.75	156.49	-21.09	-156.43	0.53	0.32	2.94
6,471.00	8.29	353.12	6,458.75	170.06	-22.74	-170.00	0.15	-0.15	0.05
6,566.00	7.98	352.02	6,552.79	183.39	-24.47	-183.32	0.37	-0.33	-1.16
6,660.00	8.49	353.51	6,645.83	196.75	-26.16	-196.67	0.59	0.54	1.59
6,754.00	8.43	355.31	6,738.80	210.51	-27.51	-210.43	0.29	-0.06	1.91
6,848.00	7.99	354.29	6,831.84	223.88	-28.72	-223.79	0.49	-0.47	-1.09
6,943.00	8.56	354.50	6,925.85	237.48	-30.06	-237.40	0.60	0.60	0.22
7,036.00	8.85	352.67	7,017.78	251.47	-31.63	-251.38	0.43	0.31	-1.97
7,130.00	8.35	353.61	7,110.72	265.42	-33.32	-265.33	0.55	-0.53	1.00
7,224.00	7.86	352.85	7,203.78	278.58	-34.88	-278.48	0.53	-0.52	-0.81
7,317.00	7.30	351.87	7,295.97	290.74	-36.50	-290.64	0.62	-0.60	-1.05
7,411.00	6.33	348.84	7,389.30	301.74	-38.35	-301.63	1.10	-1.03	-3.22
7,505.00	5.89	348.60	7,482.77	311.55	-40.31	-311.44	0.47	-0.47	-0.28
7,599.00	5.14	349.04	7,576.33	320.41	-42.06	-320.29	0.80	-0.80	0.47
7,693.00	4.44	351.39	7,670.01	328.14	-43.41	-328.02	0.77	-0.74	2.50
7,786.00	3.08	350.05	7,762.80	334.16	-44.38	-334.04	1.47	-1.46	-1.44
7,879.00	2.42	347.31	7,855.70	338.54	-45.24	-338.41	0.72	-0.71	-2.95
7,973.00	2.39	348.12	7,949.61	342.39	-46.08	-342.26	0.05	-0.03	0.86
8,067.00	0.98	1.32	8,043.57	345.12	-46.46	-344.99	1.55	-1.50	14.04
8,161.00	0.51	119.25	8,137.56	345.72	-46.08	-345.59	1.38	-0.50	125.46
8,255.00	0.42	142.38	8,231.56	345.24	-45.51	-345.11	0.22	-0.10	24.61
8,349.00	0.39	160.32	8,325.56	344.66	-45.19	-344.54	0.14	-0.03	19.09
8,442.00	0.54	152.79	8,418.56	343.98	-44.88	-343.85	0.17	0.16	-8.10
8,536.00	0.86	149.99	8,512.55	342.97	-44.33	-342.85	0.34	0.34	-2.98
8,630.00	0.65	166.20	8,606.54	341.84	-43.85	-341.72	0.32	-0.22	17.24
8,725.00	0.59	145.27	8,701.54	340.92	-43.44	-340.80	0.25	-0.06	-22.03
8,819.00	0.98	155.56	8,795.53	339.79	-42.83	-339.67	0.44	0.41	10.95
8,913.00	1.33	135.39	8,889.51	338.28	-41.73	-338.16	0.57	0.37	-21.46
9,007.00	1.42	141.25	8,983.48	336.59	-40.24	-336.48	0.18	0.10	6.23
9,101.00	0.89	192.18	9,077.46	334.97	-39.66	-334.86	1.17	-0.56	54.18
9,195.00	0.32	209.64	9,171.46	334.03	-39.94	-333.92	0.63	-0.61	18.57
9,288.00	0.19	306.92	9,264.46	333.90	-40.20	-333.78	0.42	-0.14	104.60
9,383.00	0.30	8.75	9,359.46	334.24	-40.28	-334.12	0.28	0.12	65.08
9,477.00	0.34	28.58	9,453.46	334.73	-40.11	-334.61	0.12	0.04	21.10
9,572.00	0.34	20.48	9,548.45	335.24	-39.88	-335.13	0.05	0.00	-8.53
9,666.00	0.52	20.54	9,642.45	335.90	-39.63	-335.79	0.19	0.19	0.06

ConocoPhillips

Survey Report

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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)
9,760.00	0.68	358.31	9,736.45	336.86	-39.50	-336.74	0.30	0.17	-23.65
9,855.00	0.42	136.32	9,831.44	337.17	-39.28	-337.06	1.09	-0.27	145.27
9,949.00	0.48	227.70	9,925.44	336.65	-39.33	-336.54	0.69	0.06	97.21
10,044.00	0.73	223.42	10,020.44	335.95	-40.04	-335.83	0.27	0.26	-4.51
10,138.00	0.42	136.32	10,114.43	335.26	-40.21	-335.15	0.88	-0.33	-92.66
10,233.00	1.64	241.23	10,209.42	334.36	-41.16	-334.24	1.89	1.28	110.43
10,327.00	2.98	238.35	10,303.34	332.43	-44.42	-332.30	1.43	1.43	-3.06
10,419.00	3.32	245.51	10,395.20	330.07	-48.88	-329.93	0.56	0.37	7.78
10,513.00	3.48	259.26	10,489.04	328.41	-54.16	-328.25	0.88	0.17	14.63
10,608.00	2.37	277.01	10,583.92	328.11	-58.95	-327.94	1.49	-1.17	18.68
10,702.00	1.54	297.56	10,677.86	328.93	-61.99	-328.76	1.14	-0.88	21.86
10,796.00	1.52	329.87	10,771.83	330.59	-63.74	-330.41	0.91	-0.02	34.37
10,890.00	1.08	328.91	10,865.81	332.43	-64.82	-332.25	0.47	-0.47	-1.02
10,984.00	0.84	303.59	10,959.79	333.57	-65.86	-333.39	0.51	-0.26	-26.94
11,063.00	1.93	249.73	11,038.77	333.43	-67.59	-333.24	2.01	1.38	-68.18
11,095.00	3.04	230.37	11,070.74	332.70	-68.74	-332.51	4.30	3.47	-60.50
11,126.00	5.24	224.74	11,101.66	331.17	-70.37	-330.97	7.21	7.10	-18.16
11,157.00	7.32	219.52	11,132.47	328.64	-72.63	-328.44	6.95	6.71	-16.84
11,189.00	9.85	216.49	11,164.11	324.87	-75.55	-324.66	8.03	7.91	-9.47
11,220.00	12.19	211.72	11,194.54	319.95	-78.85	-319.73	8.09	7.55	-15.39
11,251.00	14.81	207.86	11,224.68	313.66	-82.42	-313.43	8.93	8.45	-12.45
11,283.00	16.72	203.17	11,255.47	305.82	-86.15	-305.57	7.17	5.97	-14.66
11,314.00	18.75	197.06	11,285.00	296.95	-89.36	-296.70	8.88	6.55	-19.71
11,346.00	20.45	189.87	11,315.15	286.52	-91.83	-286.27	9.21	5.31	-22.47
11,377.00	22.60	183.96	11,343.99	275.24	-93.17	-274.98	9.84	6.94	-19.06
11,409.00	25.44	178.38	11,373.22	262.24	-93.40	-261.97	11.36	8.88	-17.44
11,440.00	28.25	175.35	11,400.88	248.26	-92.62	-248.00	10.08	9.06	-9.77
11,472.00	30.64	175.19	11,428.74	232.59	-91.32	-232.33	7.47	7.47	-0.50
11,503.00	32.99	175.47	11,455.08	216.30	-89.99	-216.05	7.60	7.58	0.90
11,534.00	35.36	176.59	11,480.73	198.93	-88.79	-198.68	7.91	7.65	3.61
11,558.00	37.22	177.07	11,500.07	184.75	-88.01	-184.50	7.84	7.75	2.00
11,631.00	43.37	178.69	11,555.73	137.59	-86.30	-137.35	8.55	8.42	2.22
11,674.00	47.93	178.08	11,585.78	106.87	-85.43	-106.63	10.65	10.60	-1.42
11,721.00	50.40	177.89	11,616.51	71.33	-84.18	-71.10	5.26	5.26	-0.40
11,765.00	51.42	180.75	11,644.25	37.19	-83.78	-38.96	5.55	2.32	6.50
11,812.00	52.56	181.39	11,673.20	0.17	-84.47	0.07	2.65	2.43	1.36
11,855.00	53.88	181.92	11,698.94	-34.26	-85.47	34.50	3.22	3.07	1.23
11,902.00	57.73	182.71	11,725.35	-73.09	-87.05	73.34	8.31	8.19	1.68
11,946.00	59.57	184.36	11,748.24	-110.60	-89.37	110.84	5.27	4.18	3.75
11,993.00	61.79	185.20	11,771.26	-151.43	-92.79	151.69	4.97	4.72	1.79
12,037.00	63.56	184.81	11,791.45	-190.37	-98.20	190.64	4.10	4.02	-0.89
12,059.00	64.40	184.34	11,801.11	-210.08	-97.77	210.35	4.27	3.82	-2.14
12,126.00	70.01	183.48	11,827.05	-271.67	-101.97	271.96	8.46	8.37	-1.28

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 106H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	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)
12,157.00	75.63	184.20	11,836.21	-301.21	-103.96	301.50	18.26	18.13	2.32
12,219.00	84.77	184.99	11,846.75	-362.05	-108.85	362.35	14.80	14.74	1.27
12,252.00	86.05	185.46	11,849.39	-394.80	-111.85	395.11	4.13	3.88	1.42
12,348.00	88.19	180.25	11,854.12	-488.53	-116.52	488.85	5.99	2.28	-5.54
12,439.00	88.37	180.29	11,856.91	-581.49	-116.96	581.81	0.20	0.19	0.04
12,533.00	91.04	180.55	11,857.39	-675.47	-117.65	675.80	2.85	2.84	0.28
12,626.00	90.90	180.31	11,855.82	-768.46	-118.34	768.79	0.30	-0.15	-0.26
12,721.00	90.61	179.96	11,854.57	-863.45	-118.57	863.78	0.48	-0.31	-0.37
12,814.00	91.98	179.84	11,852.46	-956.42	-118.41	956.75	1.48	1.47	-0.13
12,909.00	92.03	179.31	11,849.14	-1,051.36	-117.70	1,051.69	0.56	0.05	-0.56
13,003.00	91.76	179.31	11,846.03	-1,145.30	-116.57	1,145.62	0.29	-0.29	0.00
13,098.00	90.36	179.21	11,844.27	-1,240.28	-115.34	1,240.59	1.48	-1.47	-0.11
13,192.00	89.68	179.19	11,844.24	-1,334.27	-114.03	1,334.58	0.72	-0.72	-0.02
13,286.00	91.49	178.91	11,843.28	-1,428.25	-112.47	1,428.55	1.95	1.93	-0.30
13,380.00	93.33	179.31	11,839.33	-1,522.15	-111.01	1,522.45	2.00	1.96	0.43
13,475.00	93.80	179.79	11,833.42	-1,616.96	-110.27	1,617.26	0.71	0.49	0.51
13,568.00	91.06	179.39	11,829.48	-1,709.86	-109.60	1,710.16	2.98	-2.95	-0.43
13,663.00	91.56	179.98	11,827.31	-1,804.84	-109.08	1,805.13	0.81	0.53	0.62
13,756.00	90.84	181.06	11,825.36	-1,897.81	-109.92	1,898.11	1.40	-0.77	1.16
13,850.00	90.05	181.34	11,824.63	-1,991.79	-111.89	1,992.09	0.89	-0.84	0.30
13,944.00	88.90	181.22	11,825.49	-2,085.76	-113.99	2,086.07	1.23	-1.22	-0.13
14,039.00	88.78	180.55	11,827.41	-2,180.73	-115.46	2,181.04	0.72	-0.13	-0.71
14,133.00	90.56	182.30	11,827.96	-2,274.69	-117.80	2,275.01	2.66	1.89	1.86
14,227.00	92.03	182.92	11,825.83	-2,368.56	-122.08	2,368.90	1.70	1.56	0.66
14,320.00	90.13	181.51	11,824.08	-2,461.47	-125.67	2,461.81	2.54	-2.04	-1.52
14,414.00	88.10	180.81	11,825.53	-2,555.44	-127.57	2,555.78	2.28	-2.16	-0.74
14,508.00	89.07	179.27	11,827.85	-2,649.40	-127.64	2,649.75	1.94	1.03	-1.64
14,601.00	88.73	178.72	11,829.64	-2,742.37	-126.01	2,742.71	0.70	-0.37	-0.59
14,694.00	88.93	178.69	11,831.54	-2,835.33	-123.91	2,835.66	0.22	0.22	-0.03
14,788.00	90.38	178.13	11,832.10	-2,929.29	-121.30	2,929.61	1.65	1.54	-0.60
14,883.00	90.41	178.40	11,831.45	-3,024.24	-118.42	3,024.56	0.29	0.03	0.28
14,978.00	90.27	179.23	11,830.88	-3,119.22	-116.46	3,119.53	0.89	-0.15	0.87
15,072.00	90.01	177.61	11,830.65	-3,213.18	-113.87	3,213.48	1.75	-0.28	-1.72
15,166.00	89.70	177.30	11,830.89	-3,307.09	-109.69	3,307.38	0.47	-0.33	-0.33
15,260.00	91.38	177.75	11,830.00	-3,400.99	-105.63	3,401.27	1.85	1.79	0.48
15,354.00	89.85	177.51	11,829.00	-3,494.90	-101.75	3,495.17	1.65	-1.63	-0.26
15,448.00	92.46	178.37	11,827.10	-3,588.81	-98.37	3,589.07	2.92	2.78	0.91
15,543.00	93.10	178.54	11,822.49	-3,683.67	-95.81	3,683.92	0.70	0.67	0.18
15,637.00	91.65	177.98	11,818.60	-3,777.54	-92.96	3,777.78	1.65	-1.54	-0.60
15,731.00	91.58	178.28	11,815.95	-3,871.45	-89.89	3,871.69	0.33	-0.07	0.32
15,825.00	90.67	178.48	11,814.10	-3,965.39	-87.23	3,965.62	0.99	-0.97	0.21
15,919.00	90.79	178.75	11,812.91	-4,059.36	-84.96	4,059.58	0.31	0.13	0.29

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 106H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	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)
16,013.00	91.06	179.14	11,811.39	-4,153.33	-83.23	4,153.55	0.50	0.29	0.41
16,108.00	91.33	179.08	11,809.41	-4,248.30	-81.76	4,248.51	0.29	0.28	-0.06
16,202.00	91.02	179.04	11,807.48	-4,342.27	-80.21	4,342.47	0.33	-0.33	-0.04
16,296.00	89.48	177.85	11,807.07	-4,436.23	-77.66	4,436.43	2.07	-1.64	-1.27
16,389.00	89.36	177.65	11,808.01	-4,529.15	-74.01	4,529.34	0.25	-0.13	-0.22
16,483.00	89.18	177.00	11,809.21	-4,623.04	-69.63	4,623.22	0.72	-0.19	-0.69
16,577.00	92.69	179.40	11,807.67	-4,716.96	-66.67	4,717.13	4.52	3.73	2.55
16,672.00	94.71	179.91	11,801.54	-4,811.75	-66.10	4,811.92	2.19	2.13	0.54
16,766.00	92.84	181.47	11,795.36	-4,905.54	-67.23	4,905.70	2.59	-1.99	1.66
16,860.00	90.82	180.89	11,792.35	-4,999.46	-69.17	4,999.64	2.24	-2.15	-0.62
16,955.00	88.31	180.21	11,793.08	-5,094.45	-70.08	5,094.62	2.74	-2.64	-0.72
17,049.00	88.84	180.71	11,795.41	-5,188.41	-70.83	5,188.59	0.78	0.56	0.53
17,142.00	89.73	181.19	11,796.57	-5,281.39	-72.38	5,281.58	1.09	0.96	0.52
17,237.00	89.39	180.87	11,797.30	-5,376.38	-74.08	5,376.56	0.49	-0.36	-0.34
17,331.00	89.58	180.86	11,798.15	-5,470.36	-75.50	5,470.55	0.20	0.20	-0.01
17,425.00	89.27	180.97	11,799.09	-5,564.34	-77.00	5,564.54	0.35	-0.33	0.12
17,519.00	87.25	180.31	11,801.95	-5,658.29	-78.05	5,658.49	2.26	-2.15	-0.70
17,613.00	91.09	179.68	11,803.31	-5,752.26	-78.04	5,752.46	4.14	4.09	-0.67
17,706.00	91.24	179.15	11,801.42	-5,845.24	-77.10	5,845.43	0.59	0.16	-0.57
17,800.00	90.96	179.42	11,799.61	-5,939.21	-75.92	5,939.40	0.41	-0.30	0.29
17,895.00	91.87	179.83	11,797.27	-6,034.18	-75.30	6,034.37	1.05	0.96	0.43
17,989.00	91.33	179.39	11,794.64	-6,128.14	-74.66	6,128.32	0.74	-0.57	-0.47
18,082.00	90.41	179.20	11,793.23	-6,221.12	-73.52	6,221.30	1.01	-0.99	-0.20
18,176.00	89.84	178.86	11,793.02	-6,315.11	-71.93	6,315.28	0.71	-0.61	-0.36
18,271.00	89.12	179.06	11,793.89	-6,410.09	-70.20	6,410.26	0.79	-0.76	0.21
18,365.00	91.10	179.46	11,793.71	-6,504.07	-68.99	6,504.24	2.15	2.11	0.43
18,460.00	90.05	178.92	11,792.75	-6,599.06	-67.64	6,599.22	1.24	-1.11	-0.57
18,554.00	90.75	178.70	11,792.10	-6,693.04	-65.69	6,693.19	0.78	0.74	-0.23
18,645.00	91.16	177.11	11,790.58	-6,783.96	-62.37	6,784.11	1.80	0.45	-1.75
18,740.00	91.47	179.68	11,788.40	-6,878.89	-59.71	6,879.03	2.72	0.33	2.71
18,834.00	92.08	179.81	11,785.49	-6,972.84	-59.29	6,972.98	0.66	0.65	0.14
18,929.00	92.21	180.09	11,781.93	-7,067.77	-59.21	7,067.91	0.32	0.14	0.29
19,022.00	92.42	180.16	11,778.17	-7,160.70	-59.41	7,160.84	0.24	0.23	0.08
19,116.00	90.30	180.11	11,775.94	-7,254.67	-59.63	7,254.80	2.26	-2.26	-0.05
19,210.00	90.47	180.53	11,775.31	-7,348.66	-60.15	7,348.80	0.48	0.18	0.45
19,303.00	90.70	180.54	11,774.36	-7,441.65	-61.02	7,441.80	0.25	0.25	0.01
19,397.00	89.33	177.77	11,774.34	-7,535.63	-59.64	7,535.77	3.29	-1.46	-2.95
19,491.00	88.99	177.84	11,775.72	-7,629.55	-56.04	7,629.68	0.37	-0.36	0.07
19,586.00	90.05	179.40	11,776.51	-7,724.52	-53.75	7,724.64	1.99	1.12	1.64
19,680.00	89.98	179.39	11,776.49	-7,818.51	-52.76	7,818.63	0.08	-0.07	-0.01
19,774.00	90.82	180.07	11,775.83	-7,912.51	-52.31	7,912.62	1.15	0.89	0.72
19,867.00	92.10	180.64	11,773.46	-8,005.47	-52.89	8,005.59	1.51	1.38	0.61
19,961.00	90.45	180.43	11,771.37	-8,099.44	-53.77	8,099.56	1.77	-1.76	-0.22

ConocoPhillips

Survey Report

Company:	ConocoPhillips MCBU - Permian-Panhandle Gold Data	Local Co-ordinate Reference:	Well ZIA HILLS 19 Federal Com 106H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	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)
20,055.00	89.92	181.06	11,771.07	-8,193.43	-54.99	8,193.56	0.88	-0.56	0.67
20,150.00	89.42	178.95	11,771.61	-8,288.43	-55.00	8,288.55	2.28	-0.53	-2.22
20,243.00	89.67	176.59	11,772.35	-8,381.35	-51.38	8,381.46	2.55	0.27	-2.54
20,337.00	91.67	179.57	11,771.25	-8,475.27	-48.23	8,475.37	3.82	2.13	3.17
20,432.00	90.36	178.95	11,769.57	-8,570.25	-47.00	8,570.34	1.53	-1.38	-0.65
20,524.00	89.92	178.53	11,769.34	-8,662.22	-44.98	8,662.32	0.66	-0.48	-0.46
20,618.00	91.88	180.15	11,767.87	-8,756.20	-43.90	8,756.29	2.70	2.09	1.72
20,712.00	90.13	178.92	11,766.22	-8,850.17	-43.13	8,850.26	2.28	-1.86	-1.31
20,807.00	88.42	178.64	11,767.42	-8,945.14	-41.11	8,945.22	1.82	-1.80	-0.29
20,900.00	88.12	177.78	11,770.23	-9,038.05	-38.21	9,038.12	0.98	-0.32	-0.92
20,995.00	90.95	178.94	11,771.00	-9,133.00	-35.49	9,133.06	3.22	2.98	1.22
21,089.00	89.25	177.87	11,770.84	-9,226.96	-32.87	9,227.01	2.14	-1.81	-1.14
21,182.00	90.99	179.68	11,770.64	-9,319.93	-30.89	9,319.98	2.70	1.87	1.95
21,276.00	90.79	179.34	11,769.18	-9,413.91	-30.08	9,413.96	0.42	-0.21	-0.36
21,371.00	89.62	177.95	11,768.84	-9,508.88	-27.84	9,508.92	1.91	-1.23	-1.46
21,465.00	90.47	180.09	11,768.77	-9,602.86	-26.23	9,602.90	2.45	0.90	2.28
21,559.00	88.47	177.32	11,769.64	-9,696.82	-24.10	9,696.85	3.63	-2.13	-2.95
21,652.00	89.32	179.43	11,771.43	-9,789.76	-21.47	9,789.78	2.45	0.91	2.27
21,745.00	91.22	180.90	11,770.99	-9,882.75	-21.74	9,882.77	2.58	2.04	1.58
21,839.00	89.82	179.44	11,770.14	-9,976.74	-22.01	9,976.77	2.15	-1.49	-1.55
21,933.00	90.68	177.45	11,769.73	-10,070.70	-19.46	10,070.72	2.31	0.91	-2.12
22,003.00	90.35	176.97	11,769.10	-10,140.62	-16.06	10,140.62	0.83	-0.47	-0.69
Final Phoenix MWD Survey									
22,070.00	90.35	176.97	11,768.69	-10,207.52	-12.52	10,207.52	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 106H
Project:	Planning - NM East State Zone - 3001	TVD Reference:	RKB @ 3208.70ft (Nabors 894)
Site:	ZIA HILLS 19 Federal Com 106H	MD Reference:	RKB @ 3208.70ft (Nabors 894)
Well:	ZIA HILLS 19 Federal Com 106H	North Reference:	Grid
Wellbore:	OH / 65857	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Nabors 894)	Database:	EDT 15 Central Prod

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VT - Zia Hills 19 Fed Coi	0.00	0.01	7,457.00	-50.39	-132.57	374,470.110	689,607.110	32° 1' 41.004 N	103° 43' 17.421 W
- survey misses target center by 369.40ft at 7443.52ft MD (7421.63 TVD, 305.21 N, -39.04 E)									
- Point									
ZIA HILLS 19 106H_WP	0.00	0.01	11,040.91	-50.39	-132.57	374,470.110	689,607.110	32° 1' 41.004 N	103° 43' 17.421 W
- survey misses target center by 389.16ft at 11076.23ft MD (11051.99 TVD, 333.21 N, -68.03 E)									
- Point									
BHL - Zia Hills 19 Fed C	0.00	0.00	11,837.00	-10,176.40	-29.24	364,344.630	689,710.430	32° 0' 0.795 N	103° 43' 16.887 W
- survey misses target center by 69.76ft at 22037.62ft MD (11768.89 TVD, -10175.18 N, -14.23 E)									
- Point									
LTP - Zia Hills 19 Fed Cr	0.00	0.01	11,837.00	-9,896.46	-32.32	364,624.550	689,707.350	32° 0' 3.566 N	103° 43' 16.904 W
- survey misses target center by 67.08ft at 21758.14ft MD (11770.74 TVD, -9895.89 N, -21.92 E)									
- Point									
FTP - Zia Hills 19 Fed C	0.00	0.00	11,838.00	-373.43	-129.82	374,147.090	689,609.860	32° 1' 37.807 N	103° 43' 17.410 W
- survey misses target center by 22.19ft at 12231.50ft MD (11847.84 TVD, -374.45 N, -109.96 E)									
- Point									
BHL v1 - Zia Hills 19 Fed	0.00	0.01	11,839.00	-10,216.39	-28.84	364,304.638	689,710.832	32° 0' 0.399 N	103° 43' 16.885 W
- survey misses target center by 72.72ft at 22070.00ft MD (11768.69 TVD, -10207.52 N, -12.52 E)									
- Point									
LTP v1 - Zia Hills 19 Fed	0.00	0.01	11,839.00	-10,126.92	-29.58	364,394.103	689,710.092	32° 0' 1.285 N	103° 43' 16.887 W
- survey misses target center by 70.96ft at 21988.03ft MD (11769.20 TVD, -10125.67 N, -16.83 E)									
- Point									
ZIA HILLS 19 106H_WP	0.00	0.00	11,840.91	-10,176.40	-29.24	364,344.630	689,710.430	32° 0' 0.795 N	103° 43' 16.887 W
- survey misses target center by 73.58ft at 22037.59ft MD (11768.89 TVD, -10175.16 N, -14.23 E)									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,154.09	1,154.00	13 3/8"	13-3/8	17-1/2
11,600.38	11,533.00	9 5/8"	9-5/8	12-1/4
21,703.00	11,771.57	5 1/2"	5-1/2	8-1/2

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,075.00	1,074.92	-10.85	3.81	Tie In
1,223.00	1,222.89	-12.75	1.71	First Phoenix MWD Survey
22,003.00	11,769.10	-10,140.62	-16.06	Final Phoenix MWD Survey
22,070.00	11,768.69	-10,207.52	-12.52	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

AMENDED REPORT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name ZIA HILLS 19 FEDERAL COM			6 Well Number 106H
7 OGRID No.		8 Operator Name ConocoPhillips Company			9 Elevation 3177.3'

UL or lot no. 2	Section 19	Township 26S	Range 32E	Lot Idn	Feet from the 2627	North/South line NORTH	Feet from the 463	East/West line WEST	County LEA
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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	330	WEST	LEA

¹¹ Dedicated Acres 323.93	¹² Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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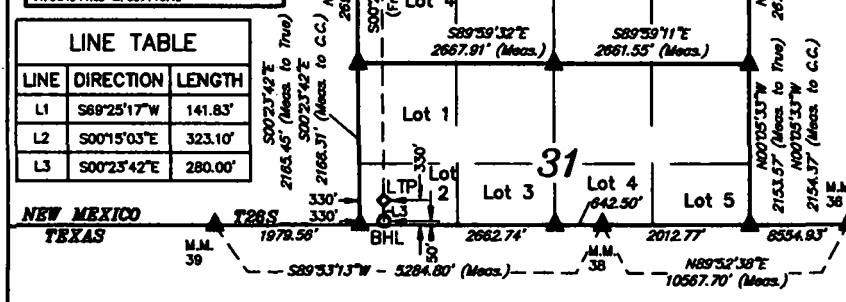
16

- = SURFACE HOLE LOCATION
- ◇ = TAKE POINT
- = BOTTOM HOLE LOCATION
- ▲ = SECTION CORNER LOCATED
- △ = SECTION CORNER RE-ESTABLISHED.
(Not Set on Ground.)

REV: 2 06-27-17 V.L.D.
DATE FTP & DEDICATED ACRES)

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°01'41.95" (32.028119)
LONGITUDE = -103°43'17.58" (103.721550)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°01'41.50" (32.028194)
LONGITUDE = -103°43'15.88" (103.721078)
STATE PLANE NAD 83 (N.M. EAST)
N : 374377.70 E: 730926.67
STATE PLANE NAD 27 (N.M. EAST)
N : 374520.50 E: 689739.67
NAD 83 (PPV1 POINT)
LATITUDE = 32°01'41.46" (32.028183)
LONGITUDE = -103°43'19.12" (103.721978)
NAD 27 (PPV1 POINT)
LATITUDE = 32°01'41.00" (32.028056)
LONGITUDE = -103°43'17.42" (103.721506)
STATE PLANE NAD 83 (N.M. EAST)
N : 374373.11 E: 730912.12
STATE PLANE NAD 27 (N.M. EAST)
N : 374710.11 E: 689607.67
NAD 83 (FIRST YAKE POINT)
LATITUDE = 32°01'38.26" (32.027294)
LONGITUDE = -103°43'19.11" (103.721975)
NAD 27 (FIRST YAKE POINT)
LATITUDE = 32°01'37.81" (32.027169)
LONGITUDE = -103°43'17.41" (103.721503)
STATE PLANE NAD 83 (N.M. EAST)
N : 374281.29 E: 730913.87
STATE PLANE NAD 27 (N.M. EAST)
N : 374147.19 E: 689640.85
NAD 83 (LAST YAKE POINT)
LATITUDE = 32°00'04.02" (32.000117)
LONGITUDE = -103°43'16.40" (103.721833)
NAD 27 (LAST YAKE POINT)
LATITUDE = 32°00'03.57" (32.000992)
LONGITUDE = -103°43'16.90" (103.721361)
STATE PLANE NAD 83 (N.M. EAST)
N : 364681.52 E: 730894.74
STATE PLANE NAD 27 (N.M. EAST)
N : 364624.55 E: 689707.35
NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°00'01.25" (32.000347)
LONGITUDE = -103°43'18.58" (103.721838)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°00'00.50" (32.000222)
LONGITUDE = -103°43'16.89" (103.721358)
STATE PLANE NAD 83 (N.M. EAST)
N : 364401.58 E: 730897.84
STATE PLANE NAD 27 (N.M. EAST)
N : 364344.61 E: 689710.43

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S69°25'17"W	141.83'
L2	S00°15'03"E	323.10'
L3	S00°23'42"E	280.00'



"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 an undivided 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.

Signature _____ Date _____

Printed Name _____

Email Address

**"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.

APRIL 19, 2017

Date of Survey _____
Signature and Seal of Professional Surveyor _____



Certificate Number