



NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 02 2016

RECEIVED

Apache Corporation

Eddy County, NM (NAD27 NME)
Coffee Federal
#22D

30-015-43366

OH / Job #1514537

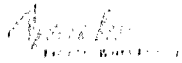
Design: Surveys (Capstar 119)

Standard Survey Report

07 November, 2015

final gyro +
MWD
Survey





Phoenix Technology Services LP

Survey Report



Company: Apache Corporation
Project: Eddy County, NM (NAD27 NME)
Site: Coffee Federal
Well: #22D
Wellbore: OH / Job #1514537
Design: Surveys (Capstar 119)

Local Co-ordinate Reference: Well #22D
TVD Reference: KB @ 3743.00usft (TBD)
MD Reference: KB @ 3743.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

Project Eddy County, NM (NAD27 NME)
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Coffee Federal

Site Position: Northing: 670,137.60 usft Latitude: 32° 50' 29.72294 N
From: Map Easting: 628,912.40 usft Longitude: 103° 54' 48.96877 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.23 °

Well #22D

Well Position +N/-S 0.00 usft Northing: 670,137.60 usft Latitude: 32° 50' 29.72294 N
+E/-W 0.00 usft Easting: 628,912.40 usft Longitude: 103° 54' 48.96877 W
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,732.00 usft

Wellbore OH / Job #1514537

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/28/2015	7.65	60.77	48,543

Design Surveys (Capstar 119)

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	152.72

Survey Program Date 11/7/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	3,419.00	Phoenix Gyro Surveys (OH / Job #151453)	PHX_SPT_GTD	PHX Continuous north-seeking gyro
3,528.00	6,430.00	Phoenix MWD Surveys (OH / Job #151453)	PHX+MWD+HDGM	PHX+OWSG MWD + HDGM

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	0.33	125.05	100.00	-0.17	0.24	0.26	0.33	0.33	0.00
200.00	0.33	272.29	200.00	-0.32	0.18	0.37	0.63	0.00	147.24
300.00	1.13	72.41	299.99	-0.01	0.84	0.39	1.44	0.80	160.12
400.00	2.24	66.97	399.95	1.05	3.57	0.70	1.12	1.11	-5.44
500.00	2.65	59.60	499.86	2.99	7.37	0.72	0.52	0.41	-7.37
600.00	2.29	53.94	599.76	5.33	10.98	0.29	0.43	-0.36	-5.66
700.00	2.43	61.51	699.68	7.52	14.45	-0.06	0.34	0.14	7.57
800.00	2.30	58.74	799.60	9.57	18.03	-0.24	0.17	-0.13	-2.77
900.00	1.98	57.03	899.53	11.55	21.20	-0.55	0.33	-0.32	-1.71

Phoenix Technology Services LP

Survey Report



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 MD Reference: KB @ 3743.00usft (TBD)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: Compass 5000 GCR

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)
1,000.00	2.28	62.77	999.46	13.40	24.42	-0.72	0.37	0.30	5.74
1,100.00	2.10	58.45	1,099.38	15.27	27.75	-0.86	0.24	-0.18	-4.32
1,200.00	2.27	68.47	1,199.31	16.96	31.15	-0.80	0.42	0.17	10.02
1,300.00	2.53	66.25	1,299.22	18.57	35.01	-0.46	0.28	0.26	-2.22
1,400.00	2.37	61.38	1,399.13	20.45	38.85	-0.37	0.26	-0.16	-4.87
1,500.00	2.40	71.25	1,499.05	22.12	42.64	-0.11	0.41	0.03	9.87
1,600.00	1.98	61.18	1,598.97	23.62	46.14	0.15	0.57	-0.42	-10.07
1,700.00	2.22	74.76	1,698.91	24.96	49.52	0.51	0.55	0.24	13.58
1,800.00	2.27	66.86	1,798.83	26.25	53.21	1.06	0.31	0.05	-7.90
1,900.00	1.98	61.78	1,898.76	27.85	56.56	1.17	0.35	-0.29	-5.08
2,000.00	2.20	58.34	1,998.69	29.67	59.71	1.00	0.25	0.22	-3.44
2,100.00	1.91	63.57	2,098.63	31.42	62.84	0.87	0.35	-0.29	5.23
2,200.00	2.27	48.41	2,198.56	33.48	65.81	0.41	0.66	0.36	-15.16
2,300.00	2.33	56.40	2,298.48	35.92	68.99	-0.30	0.33	0.06	7.99
2,400.00	2.44	48.17	2,398.40	38.46	72.27	-1.06	0.36	0.11	-8.23
2,500.00	2.45	40.73	2,498.31	41.50	75.25	-2.40	0.32	0.01	-7.44
2,600.00	2.53	41.69	2,598.21	44.77	78.11	-3.99	0.09	0.08	0.96
2,700.00	2.56	36.47	2,698.11	48.21	80.90	-5.77	0.23	0.03	-5.22
2,800.00	2.36	36.11	2,798.02	51.67	83.44	-7.68	0.20	-0.20	-0.36
2,900.00	2.59	30.99	2,897.93	55.27	85.82	-9.79	0.32	0.23	-5.12
3,000.00	2.55	316.37	2,997.85	58.82	85.45	-13.11	3.11	-0.04	-74.62
3,100.00	2.39	41.46	3,097.79	61.99	85.30	-16.00	3.34	-0.16	85.09
3,200.00	2.43	38.50	3,197.70	65.22	88.00	-17.63	0.13	0.04	-2.96
3,300.00	2.25	50.42	3,297.62	68.13	90.83	-18.92	0.52	-0.18	11.92
3,400.00	1.86	50.46	3,397.55	70.41	93.59	-19.68	0.39	-0.39	0.04
3,419.00	1.98	46.97	3,416.54	70.83	94.07	-19.84	0.88	0.63	-18.37
Tie In to Phoenix Gyro Surveys									
3,528.00	2.30	41.30	3,525.47	73.76	96.89	-21.15	0.35	0.29	-5.20
First Phoenix MWD Survey									
3,613.00	1.50	130.50	3,610.43	74.32	98.86	-20.74	3.21	-0.94	104.94
3,698.00	4.00	182.40	3,695.34	70.63	99.58	-17.13	3.87	2.94	61.06
3,784.00	5.30	181.40	3,781.05	63.66	99.36	-11.04	1.51	1.51	-1.16
3,869.00	6.10	166.00	3,865.64	55.36	100.36	-3.20	2.02	0.94	-18.12
3,954.00	5.90	165.70	3,950.17	46.74	102.53	5.45	0.24	-0.24	-0.35
4,039.00	6.00	164.20	4,034.71	38.23	104.82	14.06	0.22	0.12	-1.76
4,124.00	7.10	166.90	4,119.16	28.84	107.22	23.51	1.34	1.29	3.18
4,210.00	8.80	169.80	4,204.33	17.19	109.59	34.95	2.03	1.98	3.37
4,337.00	8.80	169.80	4,329.83	-1.93	113.03	53.52	0.00	0.00	0.00
4,465.00	8.30	168.60	4,456.41	-20.63	116.59	71.77	0.41	-0.39	-0.94
4,593.00	8.70	167.60	4,583.00	-39.14	120.49	90.01	0.33	0.31	-0.78
4,721.00	8.40	166.90	4,709.58	-57.70	124.69	108.43	0.25	-0.23	-0.55
4,849.00	9.70	179.20	4,836.00	-77.59	126.96	127.15	1.82	1.02	9.61
4,977.00	10.10	170.30	4,962.10	-99.44	129.00	147.50	1.23	0.31	-6.95

Phoenix Technology Services LP

Survey Report



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Site: Coffee Federal
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Wellbore: OH / Job #1514537
Design: Surveys (Capstar 119)

Local Co-ordinate Reference: Well #22D
TVD Reference: KB @ 3743.00usft (TBD)
MD Reference: KB @ 3743.00usft (TBD)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
5,105.00	9.90	170.00	5,088.15	-121.34	132.81	168.71	0.16	-0.16	-0.23
5,233.00	9.60	169.10	5,214.30	-142.65	136.73	189.46	0.26	-0.23	-0.70
5,360.00	9.20	168.10	5,339.60	-162.99	140.83	209.41	0.34	-0.31	-0.79
5,488.00	9.10	167.70	5,465.97	-182.89	145.10	229.05	0.09	-0.08	-0.31
5,615.00	9.10	166.10	5,591.37	-202.45	149.65	248.52	0.20	0.00	-1.26
5,743.00	9.10	168.80	5,717.76	-222.20	154.05	268.10	0.33	0.00	2.11
5,871.00	9.00	174.20	5,844.17	-242.09	157.02	287.14	0.67	-0.08	4.22
5,999.00	8.80	173.90	5,970.63	-261.79	159.08	305.58	0.16	-0.16	-0.23
6,126.00	7.90	171.80	6,096.28	-280.09	161.35	322.89	0.75	-0.71	-1.65
6,254.00	6.90	172.10	6,223.21	-296.41	163.67	338.46	0.78	-0.78	0.23
6,378.00	6.30	170.00	6,346.39	-310.49	165.87	351.98	0.52	-0.48	-1.69
Final Phoenix MWD Survey									
6,430.00	6.30	170.00	6,398.08	-316.11	166.86	357.43	0.00	0.00	0.00
Projection to TD									

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
- Shape									
BHL (Coffee Fed #22D)	0.00	0.00	6,400.00	-319.90	165.00	669,817.70	629,077.40	32° 50' 26.55099 N	103° 54' 47.04970 W
- actual wellpath misses target center by 4.64usft at 6430.00usft MD (6398.08 TVD, -316.11 N, 166.86 E)									
- Circle (radius 20.00)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,419.00	3,416.54	70.83	94.07	Tie In to Phoenix Gyro Surveys
3,528.00	3,525.47	73.76	96.89	First Phoenix MWD Survey
6,378.00	6,346.39	-310.49	165.87	Final Phoenix MWD Survey
6,430.00	6,398.08	-316.11	166.86	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

EXPLORING WHAT'S POSSIBLE

Project: Eddy County, NM (NAD27 NME)
Site: Coffee Federal
Well: #22D
Wellbore: OH / Job #1514537
Design: Plan #3 11-01-15



PHOENIX
TECHNOLOGY SERVICES



Approximate to East North
True North: 0.23°
Magnetic North: 7.42°
Magnetic Field
Strength: 49547.5 nT
Dip Angle: 69.77°
Date: 10/28/2015
Model: HDGM

WELL DETAILS									
W/S	W/W	W/L	W/T	W/B	W/S	W/W	W/L	W/T	W/B
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SECTION DETAILS									
Seq	MD	IC	AN	TVD	W/S	W/W	W/L	W/T	W/B
1	3411.0	1.55	45.97	3415.54	13.63	44.00	0.00	0.00	19.83
2	3500.0	1.55	45.97	3504.59	15.15	54.64	0.00	0.00	21.37
3	4015.10	0.65	171.52	4015.75	4.00	181.12	7.00	133.57	14.25
4	4333.44	0.65	171.52	4334.10	30.63	155.13	0.00	0.00	302.55
DESIGN TARGET DETAILS									
Name	TVD	W/S	W/W	W/L	W/T	W/B	W/S	W/W	W/L
FP (Coffee Fed #22D)	4522.42	57.13	50.43	60.33	13.63	44.00	32.50	23.55	20.10
LP (Coffee Fed #22D)	5176.43	317.00	163.43	153.23	15.15	54.64	32.50	23.55	20.10
BHL (Coffee Fed #22D)	6100.00	512.00	163.43	153.23	15.15	54.64	32.50	23.55	20.10

Map System: US State Plane 1927 (NAD27)
Datum: NAD 1927 (NAD27 CONUS)
Ergo: Clarke 1866
Zone: West
Local Origin: Well #22D, 6433.44' MD
Latitude: 32° 50' 29.722914 N
Longitude: 103° 54' 48.55517 W
Grid East: 626912.40
Grid North: 670137.60
Scale Factor: 1.000
Geographic Model: HDGM
Sample Date: 28 Oct 15
Magnetic Declination: 7.65°
Dip Angle from Horizontal: 69.77°
Magnetic Field Strength: 49543

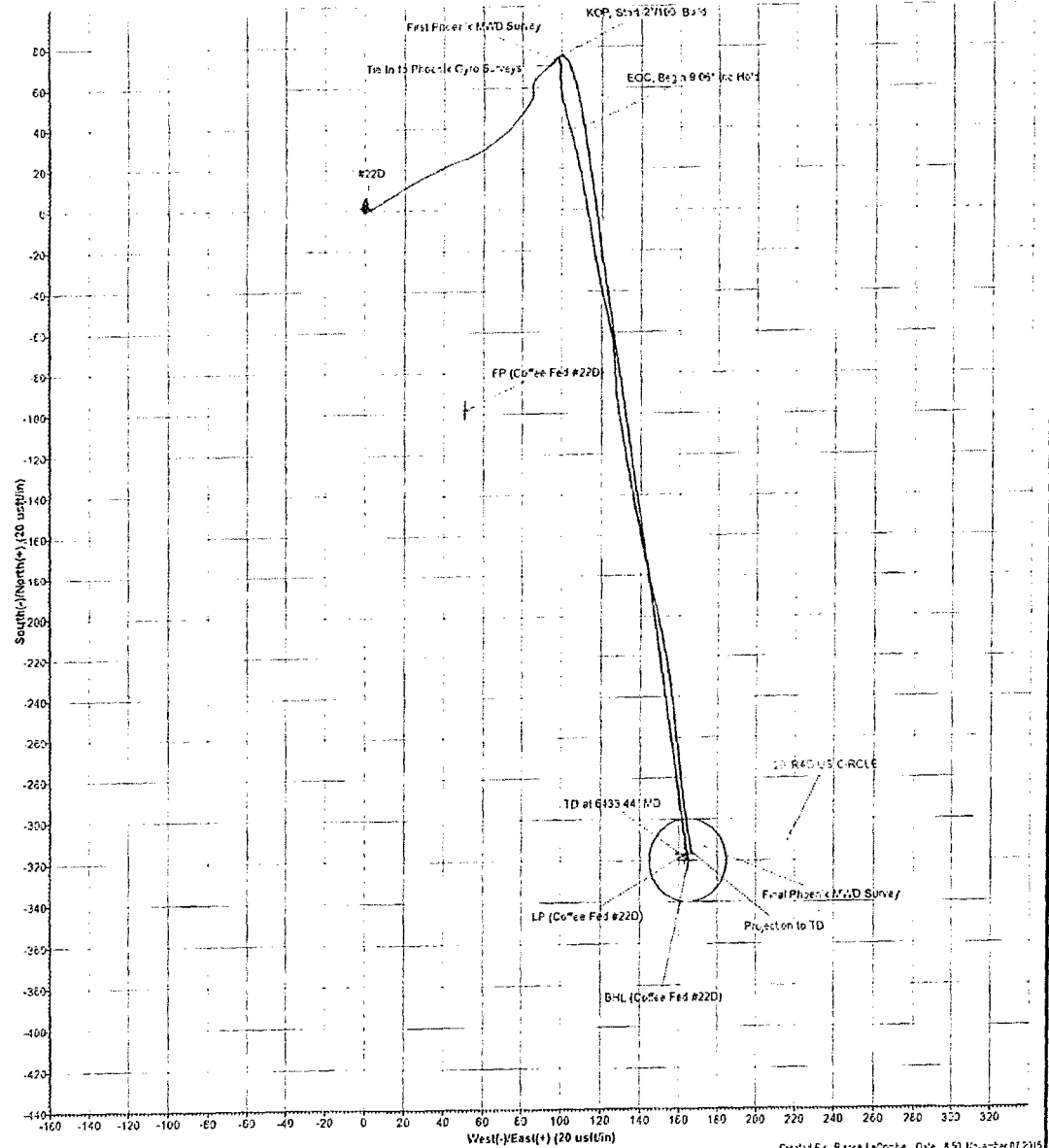
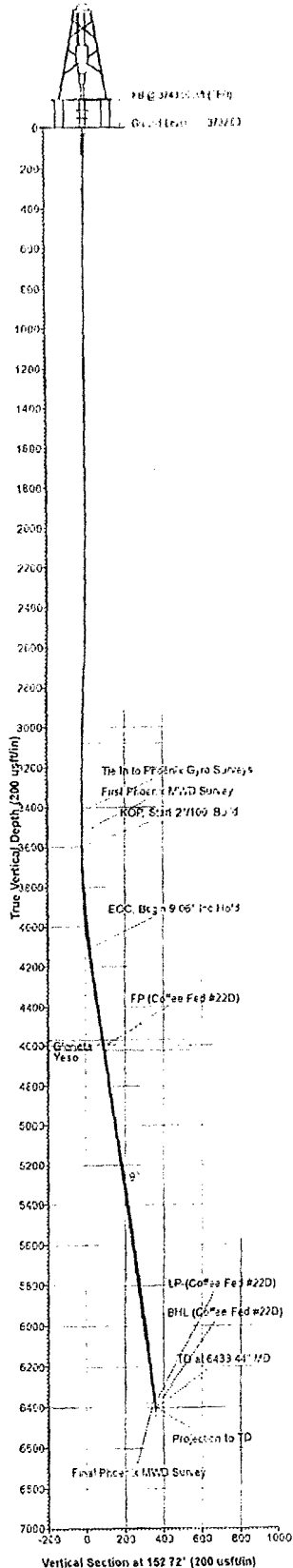
To convert a Magnetic Direction to a Grid Direction, Add 7.42°
To convert a Magnetic Direction to a True Direction, Add 7.65° East
To convert a True Direction to a Grid Direction, Subtract 0.23°

FORMATION TOP DETAILS

TVD (ft)	MD (ft)	W/S (ft)	W/W (ft)	W/L (ft)	W/T (ft)	W/B (ft)
301.00	311.00	1.55	45.97	3415.54	13.63	44.00
475.00	485.00	1.55	45.97	3504.59	15.15	54.64
1334.00	1344.00	0.65	171.52	4015.75	4.00	181.12
1429.00	1439.00	0.65	171.52	4334.10	30.63	155.13
1745.00	1755.00	0.65	171.52	4334.10	30.63	155.13
2352.00	2362.00	0.65	171.52	4334.10	30.63	155.13
2752.00	2762.00	0.65	171.52	4334.10	30.63	155.13
3074.00	3084.00	0.65	171.52	4334.10	30.63	155.13
4571.00	4581.00	0.65	171.52	4334.10	30.63	155.13
6272.00	6282.00	0.65	171.52	4334.10	30.63	155.13

LEGEND

— #22D, OH / Job #1514537, Surveys (Capstan 110) MD
— Plan #3 11-01-15



Vertical Section at 152.72' (200 usft/in)

Created By: Barea LeCoeur Date: 8/30/2015

Phoenix Technology Services
Design Report 07-Nov-2015 08:49:25

Apache Corporation

Coffee Federal #22D
Eddy County, NM (NAD27 NME)
OH / Job #1514537
Surveys (Capstar 119)

Surface Loc.:
Northing: (Y) 670137.60
Easting: (X) 628912.40
KB Elev: 3743.00'
GL Elev: 3732.00'

Survey Type Information:

H 100.00 - 3419.00 PHOENIX GYRO SURVEYS : PHX_SPT_GTD ✓
H 3528.00 - 6430.00 PHOENIX MWD SURVEYS : PHX+MWD+HDGM ✓

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coord (+N/-S) (ft)	Local Coord (+E/-W) (ft)	UTM Coord Northings (ft)	UTM Coord Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft Annotation)
0	0	0	-3743	0	0	0	670137.6	628912.4	0	0
100	0.33	125.05	-3643	100	-0.17	0.24	670137.4	628912.6	0.26	0.33
200	0.33	272.29	-3543	200	-0.32	0.18	670137.3	628912.6	0.37	0.63
300	1.13	72.41	-3443.01	299.99	-0.01	0.84	670137.6	628913.2	0.39	1.44
400	2.24	66.97	-3343.05	399.95	1.05	3.57	670138.7	628916	0.7	1.12
500	2.65	59.6	-3243.14	499.86	2.99	7.37	670140.6	628919.8	0.72	0.52
600	2.29	53.94	-3143.24	599.76	5.33	10.98	670142.9	628923.4	0.29	0.43
700	2.43	61.51	-3043.32	699.68	7.52	14.45	670145.1	628926.9	-0.06	0.34
800	2.3	58.74	-2943.4	799.6	9.57	18.03	670147.2	628930.4	-0.24	0.17
900	1.98	57.03	-2843.47	899.53	11.55	21.2	670149.2	628933.6	-0.55	0.33
1000	2.28	62.77	-2743.54	999.46	13.4	24.42	670151	628936.8	-0.72	0.37
1100	2.1	58.45	-2643.62	1099.38	15.27	27.75	670152.9	628940.2	-0.86	0.24
1200	2.27	68.47	-2543.69	1199.31	16.96	31.15	670154.6	628943.6	-0.8	0.42
1300	2.53	66.25	-2443.78	1299.22	18.57	35.01	670156.2	628947.4	-0.46	0.28
1400	2.37	61.38	-2343.87	1399.13	20.45	38.85	670158.1	628951.3	-0.37	0.26
1500	2.4	71.25	-2243.95	1499.05	22.12	42.64	670159.7	628955	-0.11	0.41
1600	1.98	61.18	-2144.03	1598.97	23.62	46.14	670161.2	628958.5	0.15	0.57
1700	2.22	74.76	-2044.09	1698.91	24.96	49.52	670162.6	628961.9	0.51	0.55
1800	2.27	66.86	-1944.17	1798.83	26.25	53.21	670163.9	628965.6	1.06	0.31
1900	1.98	61.78	-1844.24	1898.76	27.85	56.56	670165.5	628969	1.17	0.35
2000	2.2	58.34	-1744.31	1998.69	29.67	59.71	670167.3	628972.1	1	0.25
2100	1.91	63.57	-1644.37	2098.63	31.42	62.84	670169	628975.2	0.87	0.35
2200	2.27	48.41	-1544.44	2198.56	33.48	65.81	670171.1	628978.2	0.41	0.66
2300	2.33	56.4	-1444.52	2298.48	35.92	68.99	670173.5	628981.4	-0.3	0.33
2400	2.44	48.17	-1344.6	2398.4	38.46	72.27	670176.1	628984.7	-1.06	0.36
2500	2.45	40.73	-1244.69	2498.31	41.5	75.25	670179.1	628987.7	-2.4	0.32
2600	2.53	41.69	-1144.79	2598.21	44.77	78.11	670182.4	628990.5	-3.99	0.09
2700	2.56	36.47	-1044.89	2698.11	48.21	80.9	670185.8	628993.3	-5.77	0.23
2800	2.36	36.11	-944.98	2798.02	51.67	83.44	670189.3	628995.8	-7.68	0.2
2900	2.59	30.99	-845.07	2897.93	55.27	85.82	670192.9	628998.2	-9.79	0.32
3000	2.55	316.37	-745.15	2997.85	58.82	85.45	670196.4	628997.9	-13.11	3.11
3100	2.39	41.46	-645.21	3097.79	61.99	85.3	670199.6	628997.7	-16	3.34
3200	2.43	38.5	-545.3	3197.7	65.22	88	670202.8	629000.4	-17.63	0.13
3300	2.25	50.42	-445.38	3297.62	68.13	90.83	670205.7	629003.2	-18.92	0.52
3400	1.86	50.46	-345.45	3397.55	70.41	93.59	670208	629006	-19.68	0.39
3419	1.98	46.97	-326.46	3416.54	70.83	94.07	670208.4	629006.5	-19.84	0.88 Tie In to Phoenix Gyro Surveys
3528	2.3	41.3	-217.54	3525.46	73.76	96.89	670211.4	629009.3	-21.15	0.35 First Phoenix MWD Survey
3613	1.5	130.5	-132.57	3610.43	74.32	98.86	670211.9	629011.3	-20.74	3.21
3698	4	182.4	-47.66	3695.34	70.63	99.58	670208.2	629012	-17.13	3.87
3784	5.3	181.4	38.05	3781.05	63.66	99.36	670201.3	629011.8	-11.04	1.51

3869	6.1	166	122.64	3865.64	55.36	100.36	670193	629012.8	-3.2	2.02
3954	5.9	165.7	207.17	3950.17	46.74	102.53	670184.3	629014.9	5.45	0.24
4039	6	164.2	291.71	4034.71	38.23	104.82	670175.8	629017.2	14.06	0.22
4124	7.1	166.9	376.16	4119.16	28.84	107.22	670166.4	629019.6	23.51	1.34
4210	8.8	169.8	461.33	4204.33	17.19	109.59	670154.8	629022	34.95	2.03
4337	8.8	169.8	586.83	4329.83	-1.93	113.03	670135.7	629025.4	53.52	0
4465	8.3	168.6	713.41	4456.41	-20.63	116.59	670117	629029	71.77	0.41
4593	8.7	167.6	840	4583	-39.14	120.49	670098.5	629032.9	90.01	0.33
4721	8.4	166.9	966.58	4709.58	-57.7	124.69	670079.9	629037.1	108.43	0.25
4849	9.7	179.2	1093	4836	-77.59	126.96	670060	629039.4	127.15	1.82
4977	10.1	170.3	1219.1	4962.1	-99.44	129	670038.2	629041.4	147.5	1.23
5105	9.9	170	1345.15	5088.15	-121.34	132.81	670016.3	629045.2	168.71	0.16
5233	9.6	169.1	1471.3	5214.3	-142.65	136.73	669995	629049.1	189.46	0.26
5360	9.2	168.1	1596.6	5339.6	-162.99	140.83	669974.6	629053.2	209.41	0.34
5488	9.1	167.7	1722.97	5465.97	-182.89	145.1	669954.7	629057.5	229.05	0.09
5615	9.1	166.1	1848.37	5591.37	-202.45	149.65	669935.2	629062.1	248.52	0.2
5743	9.1	168.8	1974.76	5717.76	-222.2	154.05	669915.4	629066.5	268.1	0.33
5871	9	174.2	2101.17	5844.17	-242.09	157.02	669895.5	629069.4	287.14	0.67
5999	8.8	173.9	2227.63	5970.63	-261.79	159.08	669875.8	629071.5	305.58	0.16
6126	7.9	171.8	2353.28	6096.28	-280.09	161.35	669857.5	629073.8	322.89	0.75
6254	6.9	172.1	2480.21	6223.21	-296.41	163.67	669841.2	629076.1	338.46	0.78
6378	6.3	170	2603.39	6346.39	-310.49	165.87	669827.1	629078.3	351.98	0.52 Final Phoenix MWD Survey
6430	6.3	170	2655.08	6398.08	-316.11	166.86	669821.5	629079.3	357.43	0 Projection to TD

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 152.720° (Grid).

Coordinate System is NAD 1927 (NADCON CONUS) US State Plane 1927 (Exact solution), New Mexico East 3001.
Grid Convergence at Surface is 0.228°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 6430.00ft.,
the Bottom Hole Displacement is 357.45ft., in the Direction of 152.720° (Grid).