

HOBBS OCD
FEB 17 2016
RECEIVED

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1513166

OPERATOR

Chevron

WELL NAME

Salado Draw 29-26-33 Fed 6H

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-42441

PROPOSED DIRECTION

181-23

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
0 ft	.00 ft	.0 ft	.0 ft	.00 ft	.00 ft	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
24-Apr-15	190 ft	0.21	296.61

SURVEY INSTRUMENT TYPE
APS / QDT

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
3-Jul-15	16,513 ft	88.32	179.19

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
3-Jul-15	16,577 ft	88.32	179.19

Zak Dawson

PRINT YOUR NAME ABOVE

Zak Dawson

SIGN YOUR NAME ABOVE

7/3/2015

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.67
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Zak Dawson

DIRECTIONAL DRILLER 1

Keith Scheppler

MWD SUPERVISOR 2

Daniel Johnson

DIRECTIONAL DRILLER 2

Casey Tubbe

12329 Cutten Road Houston, Texas 77066

(713)337-0609 (Voice), (713)337-0599 (Fax)

MAR 30 2016



Chevron

Lea County, NM (NAD27 NME)
Salado Draw 29 26 33 Fed Com
6H

OH / Job #1513166

Survey: Phoenix MWD Surveys

Standard Survey Report

03 July, 2015





Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 6H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Well:	6H	North Reference:	Grid
Wellbore:	OH / Job #1513166	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	Database:	Compass 5000 GCR

Project	Lea County, NM (NAD27 NME)		
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		

Site	Salado Draw 29 26 33 Fed Com		
Site Position:		Northing:	372,173.00 usft
From:	Map	Easting:	727,838.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.91374 N
		Longitude:	103° 35' 53.52012 W
		Grid Convergence:	0.39 °

Well	6H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 1' 16.54116 N
		Longitude:	103° 35' 23.64041 W
		Ground Level:	3,247.00 usft

Wellbore	OH / Job #1513166		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	5/15/2015	7.07
			Dip Angle
			(°)
			Field Strength
			(nT)
			59.77
			48,077

Design	Surveys (Pace X30)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			181.23

Survey Program	Date 7/3/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
190.00	16,577.00	Phoenix MWD Surveys (OH / Job #151316	PHX+MWD+HDGM
			Description
			PHX+MWD+HDGM

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
190.00	0.21	296.61	190.00	0.16	-0.31	-0.15	0.11	0.11	0.00	
First Phoenix Survey										
310.00	0.48	297.54	310.00	0.49	-0.95	-0.47	0.23	0.23	0.78	
498.00	0.79	306.27	497.99	1.62	-2.70	-1.56	0.17	0.16	4.64	
684.00	0.85	292.10	683.97	2.90	-5.01	-2.79	0.11	0.03	-7.62	
825.00	0.38	45.90	824.96	3.61	-5.64	-3.49	0.75	-0.33	80.71	
993.00	0.52	116.16	992.96	3.67	-4.56	-3.57	0.32	0.08	41.82	
1,127.00	0.39	93.66	1,126.95	3.37	-3.56	-3.29	0.16	-0.10	-16.79	
1,304.00	0.44	72.89	1,303.95	3.53	-2.31	-3.48	0.09	0.03	-11.73	
1,481.00	0.71	98.16	1,480.94	3.57	-0.57	-3.56	0.21	0.15	14.28	



Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 6H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Well:	6H	North Reference:	Grid
Wellbore:	OH / Job #1513166	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	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)
1,659.00	0.46	357.64	1,658.93	4.13	0.49	-4.14	0.51	-0.14	-56.47
1,836.00	0.62	350.38	1,835.93	5.79	0.30	-5.79	0.10	0.09	-4.10
2,013.00	0.39	350.98	2,012.92	7.33	0.05	-7.32	0.13	-0.13	0.34
2,190.00	1.12	324.63	2,189.90	9.33	-1.05	-9.31	0.45	0.41	-14.89
2,367.00	2.04	268.30	2,366.84	10.65	-5.20	-10.53	0.96	0.52	-31.82
2,545.00	2.33	267.40	2,544.71	10.39	-11.98	-10.13	0.16	0.16	-0.51
2,723.00	2.09	277.33	2,722.58	10.64	-18.81	-10.23	0.25	-0.13	5.58
2,900.00	2.34	286.21	2,899.45	12.06	-25.49	-11.51	0.24	0.14	5.02
3,077.00	2.39	277.86	3,076.30	13.57	-32.61	-12.87	0.20	0.03	-4.72
3,255.00	2.43	278.48	3,254.14	14.64	-40.02	-13.78	0.03	0.02	0.35
3,432.00	2.75	271.81	3,430.96	15.33	-47.97	-14.29	0.25	0.18	-3.77
3,609.00	1.71	304.19	3,607.83	16.94	-54.40	-15.77	0.90	-0.59	18.29
3,786.00	1.41	320.23	3,784.77	20.10	-57.98	-18.85	0.30	-0.17	9.06
3,964.00	2.18	288.64	3,962.68	22.87	-62.59	-21.52	0.69	0.43	-17.75
4,141.00	2.41	288.12	4,139.54	25.10	-69.32	-23.61	0.13	0.13	-0.29
4,318.00	1.82	293.49	4,316.42	27.38	-75.43	-25.75	0.35	-0.33	3.03
4,496.00	1.47	284.45	4,494.35	29.07	-80.24	-27.35	0.24	-0.20	-5.08
4,673.00	1.29	266.22	4,671.29	29.51	-84.42	-27.69	0.27	-0.10	-10.30
4,807.00	1.51	268.15	4,805.25	29.35	-87.69	-27.46	0.17	0.16	1.44
4,951.00	1.43	269.67	4,949.21	29.28	-91.38	-27.31	0.06	-0.06	1.06
5,128.00	1.32	262.64	5,126.16	29.01	-95.61	-26.95	0.11	-0.06	-3.97
5,306.00	2.68	267.71	5,304.04	28.58	-101.81	-26.39	0.77	0.76	2.85
5,483.00	2.87	292.57	5,480.84	30.11	-110.03	-27.74	0.68	0.11	14.05
5,661.00	2.81	288.90	5,658.62	33.24	-118.28	-30.69	0.11	-0.03	-2.06
5,838.00	2.74	305.77	5,835.42	37.12	-125.81	-34.41	0.46	-0.04	9.53
6,016.00	1.77	300.83	6,013.28	41.01	-131.63	-38.18	0.56	-0.54	-2.78
6,193.00	1.67	289.15	6,190.20	43.26	-136.41	-40.32	0.21	-0.06	-6.60
6,371.00	1.58	296.35	6,368.13	45.20	-141.06	-42.16	0.13	-0.05	4.04
6,548.00	1.56	291.61	6,545.06	47.17	-145.49	-44.04	0.07	-0.01	-2.68
6,726.00	1.57	280.86	6,723.00	48.52	-150.13	-45.29	0.16	0.01	-6.04
6,903.00	2.49	273.76	6,899.88	49.23	-156.35	-45.86	0.54	0.52	-4.01
7,081.00	3.38	263.49	7,077.65	48.89	-165.42	-45.33	0.58	0.50	-5.77
7,258.00	3.09	276.46	7,254.37	48.83	-175.35	-45.06	0.44	-0.16	7.33
7,435.00	2.92	294.54	7,431.13	51.24	-184.19	-47.28	0.54	-0.10	10.21
7,612.00	1.91	302.68	7,607.97	54.71	-190.77	-50.60	0.60	-0.57	4.60
7,789.00	1.56	297.01	7,784.89	57.39	-195.40	-53.19	0.22	-0.20	-3.20
7,967.00	1.23	284.17	7,962.84	58.96	-199.41	-54.67	0.25	-0.19	-7.21
8,144.00	1.98	292.69	8,139.77	60.61	-204.08	-56.21	0.44	0.42	4.81
8,321.00	1.79	289.55	8,316.67	62.71	-209.50	-58.20	0.12	-0.11	-1.77
8,499.00	1.46	278.41	8,494.60	63.97	-214.37	-59.36	0.26	-0.19	-6.26
8,682.00	1.00	274.80	8,677.56	64.45	-218.26	-59.75	0.25	-0.25	-1.97
8,728.00	0.98	268.64	8,723.55	64.47	-219.06	-59.76	0.24	-0.04	-13.39
8,773.00	5.46	203.69	8,768.48	62.50	-220.30	-57.76	11.38	9.96	-144.33



Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 6H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Well:	6H	North Reference:	Grid
Wellbore:	OH / Job #1513166	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	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)
8,817.00	13.47	198.02	8,811.84	55.70	-222.73	-50.91	18.31	18.20	-12.89
8,862.00	23.12	193.93	8,854.52	42.11	-226.49	-37.24	21.62	21.44	-9.09
8,906.00	31.08	187.49	8,893.66	22.43	-230.06	-17.48	19.26	18.09	-14.64
8,950.00	37.21	186.07	8,930.06	-2.09	-232.95	7.09	14.05	13.93	-3.23
8,995.00	40.93	185.74	8,964.99	-30.29	-235.86	35.35	8.28	8.27	-0.73
9,039.00	45.40	185.71	8,997.08	-60.23	-238.86	65.35	10.16	10.16	-0.07
9,083.00	48.04	181.90	9,027.25	-92.18	-240.96	97.34	8.70	6.00	-8.66
9,128.00	50.27	177.41	9,056.68	-126.21	-240.74	131.35	9.03	4.96	-9.98
9,172.00	52.11	176.57	9,084.26	-160.44	-238.93	165.54	4.44	4.18	-1.91
9,216.00	55.23	175.73	9,110.32	-195.81	-236.55	200.84	7.26	7.09	-1.91
9,260.00	58.39	176.28	9,134.41	-232.53	-233.99	237.50	7.26	7.18	1.25
9,305.00	61.92	178.50	9,156.80	-271.52	-232.22	276.44	8.93	7.84	4.93
9,349.00	66.10	180.54	9,176.08	-311.05	-231.90	315.96	10.37	9.50	4.64
9,393.00	71.47	181.08	9,192.00	-352.05	-232.49	356.96	12.26	12.20	1.23
9,438.00	76.51	181.53	9,204.40	-395.28	-233.47	400.20	11.24	11.20	1.00
9,480.00	81.95	179.67	9,212.25	-436.52	-233.90	441.44	13.66	12.95	-4.43
9,524.00	84.54	178.18	9,217.42	-480.20	-233.08	485.10	6.78	5.89	-3.39
9,568.00	84.54	177.79	9,221.61	-523.98	-231.54	528.83	0.88	0.00	-0.89
9,658.00	85.12	177.49	9,229.72	-613.53	-227.85	618.28	0.72	0.64	-0.33
9,746.00	86.50	177.28	9,236.15	-701.20	-223.84	705.85	1.59	1.57	-0.24
9,835.00	88.55	177.24	9,239.99	-790.02	-219.59	794.55	2.30	2.30	-0.04
9,923.00	89.58	178.79	9,241.43	-877.95	-216.55	882.39	2.11	1.17	1.76
10,012.00	88.93	181.00	9,242.59	-966.93	-216.38	971.36	2.59	-0.73	2.48
10,101.00	88.99	178.26	9,244.20	-1,055.91	-215.81	1,060.30	3.08	0.07	-3.08
10,189.00	90.64	179.56	9,244.49	-1,143.89	-214.13	1,148.22	2.39	1.88	1.48
10,278.00	89.89	177.98	9,244.08	-1,232.86	-212.22	1,237.13	1.97	-0.84	-1.78
10,366.00	87.76	177.67	9,245.88	-1,320.77	-208.89	1,324.95	2.45	-2.42	-0.35
10,455.00	88.77	179.19	9,248.57	-1,409.70	-206.45	1,413.80	2.05	1.13	1.71
10,543.00	90.48	180.75	9,249.15	-1,497.69	-206.40	1,501.77	2.63	1.94	1.77
10,632.00	90.28	179.24	9,248.56	-1,586.68	-206.39	1,590.75	1.71	-0.22	-1.70
10,721.00	91.62	180.86	9,247.08	-1,675.67	-206.47	1,679.71	2.36	1.51	1.82
10,809.00	90.36	178.14	9,245.56	-1,763.64	-205.70	1,767.65	3.41	-1.43	-3.09
10,898.00	88.91	177.44	9,246.13	-1,852.57	-202.27	1,856.48	1.81	-1.63	-0.79
10,986.00	90.98	179.16	9,246.22	-1,940.52	-199.66	1,944.36	3.06	2.35	1.95
11,075.00	88.74	177.15	9,246.43	-2,029.47	-196.80	2,033.22	3.38	-2.52	-2.26
11,164.00	87.34	177.42	9,249.48	-2,118.31	-192.58	2,121.96	1.60	-1.57	0.30
11,253.00	88.44	177.57	9,252.75	-2,207.17	-188.70	2,210.71	1.25	1.24	0.17
11,341.00	89.05	177.92	9,254.68	-2,295.08	-185.23	2,298.52	0.80	0.69	0.40
11,430.00	88.60	178.03	9,256.51	-2,384.00	-182.09	2,387.36	0.52	-0.51	0.12
11,518.00	88.21	178.46	9,258.96	-2,471.93	-179.40	2,475.21	0.66	-0.44	0.49
11,607.00	86.33	181.66	9,263.20	-2,560.81	-179.49	2,564.07	4.17	-2.11	3.60
11,696.00	86.53	182.34	9,268.74	-2,649.58	-182.59	2,652.89	0.79	0.22	0.76
11,784.00	86.98	181.98	9,273.72	-2,737.38	-185.90	2,740.74	0.65	0.51	-0.41



Survey Report



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Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Well:	6H	North Reference:	Grid
Wellbore:	OH / Job #1513166	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	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)
11,873.00	87.09	181.86	9,278.32	-2,826.21	-188.88	2,829.61	0.18	0.12	-0.13
11,962.00	88.15	181.79	9,282.02	-2,915.09	-191.71	2,918.53	1.19	1.19	-0.08
12,051.00	89.24	180.57	9,284.04	-3,004.04	-193.54	3,007.50	1.84	1.22	-1.37
12,139.00	91.20	181.26	9,283.71	-3,092.02	-194.95	3,095.50	2.36	2.23	0.78
12,228.00	90.42	179.86	9,282.45	-3,181.01	-195.82	3,184.48	1.80	-0.88	-1.57
12,316.00	89.58	180.74	9,282.45	-3,269.00	-196.28	3,272.46	1.38	-0.95	1.00
12,405.00	88.38	180.20	9,284.03	-3,357.99	-197.01	3,361.44	1.48	-1.35	-0.61
12,494.00	88.52	178.65	9,286.44	-3,446.95	-196.11	3,450.36	1.75	0.16	-1.74
12,583.00	88.15	178.75	9,289.03	-3,535.89	-194.09	3,539.24	0.43	-0.42	0.11
12,671.00	90.14	181.46	9,290.34	-3,623.86	-194.26	3,627.20	3.82	2.26	3.08
12,760.00	89.33	180.76	9,290.75	-3,712.84	-195.98	3,716.20	1.20	-0.91	-0.79
12,849.00	91.01	182.93	9,290.49	-3,801.79	-198.85	3,805.18	3.08	1.89	2.44
12,937.00	90.61	182.02	9,289.24	-3,889.70	-202.65	3,893.15	1.13	-0.45	-1.03
13,026.00	89.75	182.73	9,288.96	-3,978.62	-206.33	3,982.13	1.25	-0.97	0.80
13,114.00	90.73	184.45	9,288.60	-4,066.44	-211.84	4,070.05	2.25	1.11	1.95
13,203.00	89.27	182.03	9,288.60	-4,155.29	-216.87	4,158.99	3.18	-1.64	-2.72
13,292.00	91.07	181.14	9,288.33	-4,244.25	-219.33	4,247.98	2.26	2.02	-1.00
13,380.00	88.07	180.87	9,288.99	-4,332.22	-220.88	4,335.97	3.42	-3.41	-0.31
13,469.00	91.54	182.13	9,289.29	-4,421.18	-223.21	4,424.95	4.15	3.90	1.42
13,558.00	89.83	179.34	9,288.23	-4,510.15	-224.35	4,513.93	3.68	-1.92	-3.13
13,646.00	86.42	178.48	9,291.11	-4,598.08	-222.68	4,601.80	4.00	-3.88	-0.98
13,735.00	88.29	179.41	9,295.22	-4,686.96	-221.04	4,690.63	2.35	2.10	1.04
13,824.00	90.25	181.10	9,296.35	-4,775.94	-221.44	4,779.60	2.91	2.20	1.90
13,912.00	86.70	176.08	9,298.69	-4,863.84	-219.28	4,867.43	6.98	-4.03	-5.70
14,001.00	86.50	175.64	9,303.97	-4,952.46	-212.86	4,955.88	0.54	-0.22	-0.49
14,090.00	89.22	179.49	9,307.30	-5,041.29	-209.09	5,044.62	5.29	3.06	4.33
14,179.00	88.07	177.70	9,309.40	-5,130.23	-206.91	5,133.49	2.39	-1.29	-2.01
14,267.00	90.22	177.92	9,310.71	-5,218.15	-203.54	5,221.32	2.46	2.44	0.25
14,356.00	91.01	178.10	9,309.76	-5,307.09	-200.45	5,310.17	0.91	0.89	0.20
14,444.00	91.74	178.77	9,307.65	-5,395.03	-198.05	5,398.04	1.13	0.83	0.76
14,533.00	91.17	181.49	9,305.39	-5,484.00	-198.25	5,486.99	3.12	-0.64	3.06
14,622.00	90.98	180.98	9,303.72	-5,572.96	-200.17	5,575.97	0.61	-0.21	-0.57
14,710.00	86.70	178.99	9,305.50	-5,660.92	-200.15	5,663.91	5.36	-4.86	-2.26
14,799.00	87.06	179.63	9,310.34	-5,749.78	-199.08	5,752.73	0.82	0.40	0.72
14,887.00	87.56	179.97	9,314.47	-5,837.68	-198.77	5,840.60	0.69	0.57	0.39
14,976.00	89.97	178.47	9,316.39	-5,926.64	-197.56	5,929.52	3.19	2.71	-1.69
15,065.00	89.91	178.61	9,316.48	-6,015.61	-195.29	6,018.42	0.17	-0.07	0.16
15,153.00	90.50	178.60	9,316.17	-6,103.59	-193.15	6,106.33	0.67	0.67	-0.01
15,242.00	90.78	177.72	9,315.17	-6,192.53	-190.29	6,195.19	1.04	0.31	-0.99
15,331.00	91.65	178.65	9,313.29	-6,281.47	-187.47	6,284.04	1.43	0.98	1.04
15,419.00	93.11	178.70	9,309.63	-6,369.36	-185.44	6,371.88	1.66	1.66	0.06
15,508.00	89.24	178.40	9,307.81	-6,458.30	-183.19	6,460.74	4.36	-4.35	-0.34
15,597.00	90.70	179.23	9,307.85	-6,547.28	-181.35	6,549.66	1.89	1.64	0.93
15,686.00	91.54	179.26	9,306.12	-6,636.25	-180.18	6,638.59	0.94	0.94	0.03



Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 6H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Site:	Salado Draw 29 26 33 Fed Com	MD Reference:	RKB @ 3274.00usft (Nabors Pace X30)
Well:	6H	North Reference:	Grid
Wellbore:	OH / Job #1513166	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Pace X30)	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)	
15,774.00	91.76	178.11	9,303.58	-6,724.19	-178.16	6,726.47	1.33	0.25	-1.31	
15,863.00	90.64	178.04	9,301.72	-6,813.12	-175.17	6,815.31	1.26	-1.26	-0.08	
15,952.00	90.19	179.08	9,301.07	-6,902.09	-172.93	6,904.21	1.27	-0.51	1.17	
16,041.00	90.45	180.65	9,300.58	-6,991.08	-172.72	6,993.18	1.79	0.29	1.76	
16,129.00	90.73	179.88	9,299.67	-7,079.08	-173.13	7,081.16	0.93	0.32	-0.88	
16,218.00	86.19	178.91	9,302.06	-7,168.02	-172.19	7,170.06	5.22	-5.10	-1.09	
16,307.00	87.73	179.39	9,306.78	-7,256.88	-170.87	7,258.87	1.81	1.73	0.54	
16,396.00	89.81	179.81	9,308.69	-7,345.85	-170.25	7,347.81	2.38	2.34	0.47	
16,484.00	89.21	179.61	9,309.44	-7,433.85	-169.81	7,435.78	0.72	-0.68	-0.23	
16,518.00	88.32	179.19	9,310.18	-7,467.84	-169.45	7,469.75	2.89	-2.62	-1.24	
Last Phoenix MWD Survey										
16,577.00	88.32	179.19	9,311.91	-7,526.80	-168.62	7,528.69	0.00	0.00	0.00	
Projection to TD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
190.00	190.00	0.16	-0.31	First Phoenix Survey
16,518.00	9,310.18	-7,467.84	-169.45	Last Phoenix MWD Survey
16,577.00	9,311.91	-7,526.80	-168.62	Projection to TD

Checked By: _____ Approved By: _____ Date: _____