



PHOENIX
TECHNOLOGY SERVICES

September 4, 2014

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 08 2014

RECEIVED

Dear District 2 - Artesia

Re: Chesapeake Operating Inc.
PLU Pierce Canyon 17-24-30 1H
Eddy Co., NM
API #30-015-40520
Job No. 1210820

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. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
David Hayden	1H	172	12,508	09/09/12	09/24/12	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,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4365 2339

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1210820

OPERATOR

Chesapeake Energy

WELL NAME

PLU Pierce Canyon 17-24-30 1H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-40520

PROPOSED DIRECTION

359.95

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

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
9-Sep-12	172 ft	0.6	226.1

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
24-Sep-12	12,508 ft	92.1	357.2

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
24-Sep-12	12,560 ft	92.1	357.2

David Hayden

PRINT YOUR NAME ABOVE

David Hayden

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	
	7.36
DECLINATION OR GRID	DECLINATION

9/24/2012

TODAY'S DATE

MWD SUPERVISOR 1

David Hayden

DIRECTIONAL DRILLER 1

Glen McVay

MWD SUPERVISOR 2

Jennings Caraway

DIRECTIONAL DRILLER 2

0

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)



PHOENIX
TECHNOLOGY SERVICES

Chesapeake Operating Inc.

Eddy County, New Mexico (NAD 1983)

PLU Pierce Canyon 17-24-30 USA 1H

Job # 1210820

Rig: Trinidad 110

Survey: Phoenix MWD Surveys

Chesapeake Energy, Survey Report

25 September, 2012





Chesapeake Energy, Survey Report



Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job # 1210820
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3324.00usft (Trinidad 110)
Site:	PLU Pierce Canyon 17-24-30 USA 1H	MD Reference:	WELL @ 3324.00usft (Trinidad 110)
Well:	Job # 1210820	North Reference:	Grid
Wellbore:	Rig: Trinidad 110	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Trinidad 110	Database:	Compass5000

Project:	Eddy County, New Mexico (NAD 1983)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	PLU Pierce Canyon 17-24-30 USA 1H				
Site Position:	From: Map	Northing:	440,776.00 usft	Latitude:	32° 12' 39.7699 N
		Easting:	673,561.00 usft	Longitude:	103° 54' 20.9125 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.23 °

Well:	Job # 1210820					
Well Position	+N/-S	0.00 usft	Northing:	440,776.00 usft	Latitude:	32° 12' 39.7699 N
	+E/-W	0.00 usft	Easting:	673,561.00 usft	Longitude:	103° 54' 20.9125 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	17.00 usft	Ground Level:	3,307.00 usft	

Wellbore:	Rig: Trinidad 110				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	08/29/12	7.59	60.09	48,452

Design:	Rig: Trinidad 110				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	359.95	

Survey Program	Date	09/25/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
172.00	12,560.00	Phoenix MWD Surveys (Rig: Trinidad 110)	MWD	MWD - Standard



Chesapeake Energy, Survey Report



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Wellbore:	Rig: Trinidad 110	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Trinidad 110	Database:	Compass5000

Survey										
MD (usft)	Inc (°)	Azi.(azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	3,324.00	0.00	0.00	0.00	0.00	0.00	440,776.00	673,561.00
172.00	0.60	226.10	3,152.00	172.00	-0.62	-0.65	-0.62	0.35	440,775.38	673,560.35
First Phoenix MWD Surveys @ 172' MD										
343.00	0.50	210.00	2,981.01	342.99	-1.89	-1.67	-1.89	0.11	440,774.11	673,559.33
488.00	0.70	178.90	2,836.02	487.98	-3.32	-1.97	-3.32	0.26	440,772.68	673,559.03
583.00	1.00	181.40	2,741.03	582.97	-4.73	-1.98	-4.73	0.32	440,771.27	673,559.02
774.00	1.10	185.20	2,550.06	773.94	-8.23	-2.18	-8.22	0.06	440,767.77	673,558.82
964.00	1.40	169.60	2,360.11	963.89	-12.33	-1.93	-12.32	0.24	440,763.67	673,559.07
1,154.00	1.20	173.20	2,170.16	1,153.84	-16.58	-1.27	-16.58	0.11	440,759.42	673,559.73
1,344.00	1.40	176.50	1,980.20	1,343.80	-20.88	-0.90	-20.88	0.11	440,755.12	673,560.10
1,534.00	1.00	167.10	1,790.25	1,533.75	-24.81	-0.39	-24.81	0.23	440,751.19	673,560.61
1,725.00	0.60	190.80	1,599.26	1,724.74	-27.42	-0.20	-27.42	0.27	440,748.58	673,560.80
1,915.00	0.40	189.80	1,409.27	1,914.73	-29.05	-0.50	-29.05	0.11	440,746.95	673,560.50
2,105.00	0.50	174.50	1,219.28	2,104.72	-30.53	-0.53	-30.52	0.08	440,745.47	673,560.47
2,296.00	0.40	172.50	1,028.28	2,295.72	-32.02	-0.37	-32.02	0.05	440,743.98	673,560.63
2,486.00	0.40	173.20	838.29	2,485.71	-33.33	-0.20	-33.33	0.00	440,742.67	673,560.80
2,677.00	0.30	231.30	647.29	2,676.71	-34.31	-0.51	-34.31	0.18	440,741.69	673,560.49
2,867.00	0.40	172.90	457.29	2,866.71	-35.28	-0.82	-35.27	0.19	440,740.72	673,560.18
3,058.00	0.40	151.80	266.30	3,057.70	-36.52	-0.42	-36.52	0.08	440,739.48	673,560.58
3,248.00	1.30	149.70	76.32	3,247.68	-38.97	0.98	-38.97	0.47	440,737.03	673,561.98
3,439.00	1.50	162.10	-114.62	3,438.62	-43.22	2.84	-43.22	0.19	440,732.78	673,563.84
3,637.00	1.00	173.40	-312.57	3,636.57	-47.40	3.84	-47.41	0.28	440,728.60	673,564.84
3,828.00	1.00	175.70	-503.55	3,827.55	-50.72	4.15	-50.72	0.02	440,725.28	673,565.15
4,018.00	0.80	179.90	-693.52	4,017.52	-53.70	4.28	-53.70	0.11	440,722.30	673,565.28
4,209.00	0.70	194.80	-884.51	4,208.51	-56.16	3.98	-56.16	0.11	440,719.84	673,564.98
4,399.00	0.40	199.60	-1,074.50	4,398.50	-57.91	3.46	-57.91	0.16	440,718.09	673,564.46
4,589.00	0.50	211.10	-1,264.49	4,588.49	-59.24	2.81	-59.25	0.07	440,716.76	673,563.81

Chesapeake Energy, Survey Report

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Site:	PLU Pierce Canyon 17-24-30 USA 1H	MD Reference:	WELL @ 3324.00usft (Trinidad 110)
Well:	Job # 1210820	North Reference:	Grid
Wellbore:	Rig: Trinidad 110	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Trinidad 110	Database:	Compass5000

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
4,780.00	0.50	229.10	-1,455.48	4,779.48	-60.50	1.75	-60.50	0.08	440,715.50	673,562.75		
4,971.00	0.40	240.00	-1,646.48	4,970.48	-61.38	0.55	-61.38	0.07	440,714.62	673,561.55		
5,162.00	0.70	233.20	-1,837.47	5,161.47	-62.41	-0.97	-62.41	0.16	440,713.59	673,560.03		
5,353.00	0.90	235.90	-2,028.45	5,352.45	-63.95	-3.14	-63.95	0.11	440,712.05	673,557.86		
5,544.00	0.60	252.20	-2,219.43	5,543.43	-65.10	-5.34	-65.10	0.19	440,710.90	673,555.66		
5,734.00	0.70	229.00	-2,409.42	5,733.42	-66.17	-7.16	-66.16	0.15	440,709.83	673,553.84		
5,925.00	1.00	222.40	-2,600.40	5,924.40	-68.16	-9.16	-68.15	0.16	440,707.84	673,551.84		
6,116.00	0.70	232.60	-2,791.38	6,115.38	-70.10	-11.21	-70.09	0.18	440,705.90	673,549.79		
6,307.00	1.00	215.60	-2,982.36	6,306.36	-72.16	-13.11	-72.15	0.20	440,703.84	673,547.89		
6,487.00	1.00	212.10	-3,162.33	6,486.33	-74.77	-14.86	-74.76	0.03	440,701.23	673,546.14		
6,668.00	0.90	203.20	-3,343.31	6,667.31	-77.42	-16.26	-77.40	0.10	440,698.58	673,544.74		
6,849.00	1.20	209.20	-3,524.28	6,848.28	-80.38	-17.74	-80.36	0.18	440,695.62	673,543.26		
7,029.00	1.50	210.20	-3,704.23	7,028.23	-84.06	-19.85	-84.04	0.17	440,691.94	673,541.15		
7,244.00	1.10	188.20	-3,919.17	7,243.17	-88.53	-21.56	-88.52	0.29	440,687.47	673,539.44		
7,289.00	5.50	341.60	-3,964.11	7,288.11	-86.91	-22.30	-86.89	14.45	440,689.09	673,538.70		
7,334.00	15.50	350.20	-4,008.30	7,332.30	-78.92	-24.01	-78.90	22.43	440,697.08	673,536.99		
7,379.00	21.60	344.90	-4,050.95	7,374.95	-64.99	-27.19	-64.96	14.05	440,711.01	673,533.81		
7,424.00	29.50	342.20	-4,091.52	7,415.52	-46.41	-32.75	-46.38	17.74	440,729.59	673,528.25		
7,469.00	34.90	345.20	-4,129.58	7,453.58	-23.40	-39.43	-23.36	12.51	440,752.60	673,521.57		
7,515.00	38.10	345.40	-4,166.56	7,490.56	3.07	-46.37	3.11	6.96	440,779.07	673,514.63		
7,560.00	40.60	346.80	-4,201.35	7,525.35	30.76	-53.21	30.81	5.90	440,806.76	673,507.79		
7,605.00	44.90	350.70	-4,234.40	7,558.40	60.71	-59.13	60.76	11.22	440,836.71	673,501.87		
7,650.00	48.00	356.50	-4,265.41	7,589.41	93.10	-62.72	93.15	11.60	440,869.10	673,498.28		
7,695.00	50.30	359.30	-4,294.85	7,618.85	127.10	-63.95	127.16	6.95	440,903.10	673,497.05		
7,740.00	52.30	3.10	-4,322.99	7,646.99	162.20	-63.20	162.26	7.95	440,938.20	673,497.80		
7,785.00	57.90	4.40	-4,348.72	7,672.72	199.01	-60.77	199.07	12.67	440,975.01	673,500.23		
7,830.00	63.70	3.70	-4,370.67	7,694.67	238.18	-58.01	238.23	12.96	441,014.18	673,502.99		



Chesapeake Energy, Survey Report



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Site:	PLU Pierce Canyon 17-24-30 USA 1H	MD Reference:	WELL @ 3324.00usft (Trinidad 110)
Well:	Job # 1210820	North Reference:	Grid
Wellbore:	Rig: Trinidad 110	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Trinidad 110	Database:	Compass5000

Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg. (°/100usft)	Northing (usft)	Easting (usft)	
7,876.00	67.90	2.50	-4,389.52	7,713.52	280.07	-55.74	280.12	9.44	441,056.07	673,505.26	
7,921.00	69.80	4.20	-4,405.76	7,729.76	321.96	-53.29	322.01	5.50	441,097.96	673,507.71	
7,966.00	74.10	5.30	-4,419.70	7,743.70	364.59	-49.74	364.63	9.83	441,140.59	673,511.26	
8,011.00	75.40	5.70	-4,431.53	7,755.53	407.80	-45.58	407.84	3.01	441,183.80	673,515.42	
8,056.00	78.20	6.00	-4,441.81	7,765.81	451.38	-41.11	451.42	6.26	441,227.38	673,519.89	
8,101.00	80.20	6.00	-4,450.24	7,774.24	495.34	-36.49	495.37	4.44	441,271.34	673,524.51	
8,146.00	83.10	4.50	-4,456.77	7,780.77	539.67	-32.42	539.70	7.24	441,315.67	673,528.58	
8,191.00	85.40	3.50	-4,461.28	7,785.28	584.33	-29.30	584.36	5.57	441,360.33	673,531.70	
8,236.00	85.60	2.20	-4,464.81	7,788.81	629.13	-27.07	629.16	2.91	441,405.13	673,533.93	
8,282.00	88.90	2.00	-4,467.02	7,791.02	675.04	-25.39	675.07	7.19	441,451.04	673,535.61	
8,372.00	91.80	1.00	-4,466.47	7,790.47	765.00	-23.03	765.02	3.41	441,541.00	673,537.97	
8,462.00	92.00	1.20	-4,463.49	7,787.49	854.93	-21.30	854.95	0.31	441,630.93	673,539.70	
8,514.00	92.20	1.10	-4,461.58	7,785.58	906.89	-20.26	906.91	0.43	441,682.89	673,540.74	
8,642.00	91.10	1.20	-4,457.90	7,781.90	1,034.81	-17.69	1,034.82	0.86	441,810.81	673,543.31	
8,732.00	91.60	1.10	-4,455.78	7,779.78	1,124.77	-15.89	1,124.78	0.57	441,900.77	673,545.11	
8,823.00	90.90	2.60	-4,453.79	7,777.79	1,215.69	-12.95	1,215.70	1.82	441,991.69	673,548.05	
8,913.00	90.40	3.20	-4,452.77	7,776.77	1,305.57	-8.40	1,305.58	0.87	442,081.57	673,552.60	
9,003.00	90.10	3.80	-4,452.38	7,776.38	1,395.40	-2.90	1,395.40	0.75	442,171.40	673,558.10	
9,094.00	87.80	2.60	-4,454.04	7,778.04	1,486.24	2.18	1,486.23	2.85	442,262.24	673,563.18	
9,184.00	87.10	2.20	-4,458.05	7,782.05	1,576.07	5.94	1,576.06	0.90	442,352.07	673,566.94	
9,274.00	84.20	1.30	-4,464.87	7,788.87	1,665.76	8.68	1,665.75	3.37	442,441.76	673,569.68	
9,364.00	87.00	0.20	-4,471.78	7,795.78	1,755.47	9.86	1,755.46	3.34	442,531.47	673,570.86	
9,455.00	91.50	359.10	-4,472.97	7,796.97	1,846.44	9.30	1,846.43	5.09	442,622.44	673,570.30	
9,545.00	91.30	358.00	-4,470.77	7,794.77	1,936.38	7.02	1,936.38	1.24	442,712.38	673,568.02	
9,636.00	91.90	358.90	-4,468.23	7,792.23	2,027.31	4.56	2,027.31	1.19	442,803.31	673,565.56	
9,727.00	91.80	358.30	-4,465.29	7,789.29	2,118.24	2.34	2,118.23	0.67	442,894.24	673,563.34	
9,817.00	92.20	358.20	-4,462.15	7,786.15	2,208.14	-0.41	2,208.14	0.46	442,984.14	673,560.59	



Chesapeake Energy, Survey Report



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9,908.00	92.70	357.60	-4,458.26	7,782.26	2,298.99	-3.74	2,299.00	0.86	443,074.99	673,557.26
9,998.00	90.20	359.60	-4,455.98	7,779.98	2,388.93	-5.94	2,388.93	3.56	443,164.93	673,555.06
10,088.00	90.50	359.30	-4,455.43	7,779.43	2,478.92	-6.80	2,478.93	0.47	443,254.92	673,554.20
10,179.00	90.80	359.10	-4,454.40	7,778.40	2,569.91	-8.07	2,569.91	0.40	443,345.91	673,552.93
10,269.00	88.90	358.60	-4,454.64	7,778.64	2,659.88	-9.88	2,659.89	2.18	443,435.88	673,551.12
10,360.00	88.30	358.30	-4,456.86	7,780.86	2,750.82	-12.34	2,750.83	0.74	443,526.82	673,548.66
10,450.00	90.90	359.70	-4,457.49	7,781.49	2,840.80	-13.91	2,840.81	3.28	443,616.80	673,547.09
10,540.00	91.20	359.40	-4,455.84	7,779.84	2,930.78	-14.61	2,930.79	0.47	443,706.78	673,546.39
10,630.00	91.30	0.40	-4,453.88	7,777.88	3,020.76	-14.77	3,020.77	1.12	443,796.76	673,546.23
10,721.00	91.00	359.00	-4,452.05	7,776.05	3,111.73	-15.25	3,111.75	1.57	443,887.73	673,545.75
10,811.00	89.10	354.60	-4,451.97	7,775.97	3,201.57	-20.27	3,201.58	5.33	443,977.57	673,540.73
10,901.00	89.30	357.60	-4,453.23	7,777.23	3,291.34	-26.39	3,291.36	3.34	444,067.34	673,534.61
10,991.00	90.70	1.60	-4,453.23	7,777.23	3,381.32	-27.02	3,381.34	4.71	444,157.32	673,533.98
11,082.00	90.50	0.80	-4,452.27	7,776.27	3,472.29	-25.11	3,472.31	0.91	444,248.29	673,535.89
11,172.00	90.10	359.50	-4,451.80	7,775.80	3,562.29	-24.88	3,562.31	1.51	444,338.29	673,536.12
11,262.00	91.10	2.80	-4,450.86	7,774.86	3,652.25	-23.07	3,652.27	3.83	444,428.25	673,537.93
11,352.00	90.70	2.60	-4,449.45	7,773.45	3,742.14	-18.83	3,742.16	0.50	444,518.14	673,542.17
11,442.00	90.00	3.00	-4,448.90	7,772.90	3,832.03	-14.44	3,832.04	0.90	444,608.03	673,546.56
11,533.00	90.30	3.10	-4,448.66	7,772.66	3,922.90	-9.59	3,922.91	0.35	444,698.90	673,551.41
11,623.00	90.00	2.40	-4,448.42	7,772.42	4,012.80	-5.28	4,012.80	0.85	444,788.80	673,555.72
11,714.00	90.30	2.50	-4,448.18	7,772.18	4,103.71	-1.39	4,103.71	0.35	444,879.71	673,559.61
11,804.00	88.60	2.90	-4,449.05	7,773.05	4,193.61	2.85	4,193.60	1.94	444,969.61	673,563.85
11,894.00	88.00	3.20	-4,451.72	7,775.72	4,283.44	7.64	4,283.43	0.75	445,059.44	673,568.64
11,985.00	89.70	0.30	-4,453.55	7,777.55	4,374.36	10.42	4,374.35	3.69	445,150.36	673,571.42
12,075.00	88.50	359.90	-4,454.96	7,778.96	4,464.35	10.57	4,464.34	1.41	445,240.35	673,571.57
12,166.00	91.30	359.40	-4,455.12	7,779.12	4,555.34	10.02	4,555.33	3.13	445,331.34	673,571.02
12,256.00	91.60	359.00	-4,452.84	7,776.84	4,645.30	8.76	4,645.29	0.56	445,421.30	673,569.76



Chesapeake Energy, Survey Report



Company:	Chesapeake Operating Inc.	Local Co-ordinate Reference:	Well Job # 1210820
Project:	Eddy County, New Mexico (NAD 1983)	TVD Reference:	WELL @ 3324.00usft (Trinidad 110)
Site:	PLU Pierce Canyon 17-24-30 USA 1H	MD Reference:	WELL @ 3324.00usft (Trinidad 110)
Well:	Job # 1210820	North Reference:	Grid
Wellbore:	Rig: Trinidad 110	Survey Calculation Method:	Minimum Curvature
Design:	Rig: Trinidad 110	Database:	Compass5000

Survey.											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V..Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
12,346.00	90.40	357.90	-4,451.27	7,775.27	4,735.25	6.33	4,735.24	1.81	445,511.25	673,567.33	
12,437.00	90.50	357.30	-4,450.55	7,774.55	4,826.17	2.52	4,826.17	0.67	445,602.17	673,563.52	
12,508.00	92.10	357.20	-4,448.94	7,772.94	4,897.07	-0.89	4,897.07	2.26	445,673.07	673,560.11	
Last Phoenix MWD Surveys @ 12508' MD											
12,560.00	92.10	357.20	-4,447.04	7,771.04	4,948.97	-3.43	4,948.97	0.00	445,724.97	673,557.57	
Projection to TD @ 12560' MD											

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
172.00	172.00	-0.62	-0.65	First Phoenix MWD Surveys @ 172' MD	
12,508.00	7,772.94	4,897.07	-0.89	Last Phoenix MWD Surveys @ 12508' MD	
12,560.00	7,771.04	4,948.97	-3.43	Projection to TD @ 12560' MD	

Checked By: _____	Approved By: _____	Date: _____
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