



PHOENIX
TECHNOLOGY SERVICES

June 19, 2014

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

HOBBS OCD

JUN 23 2014

RECEIVED

Dear District 1 - Hobbs

Re: Chevron North America Exploration
Red Hills 11-25-33 #1H
Lea County, NM
API #30-025-41848
Job No. 1410809

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. 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	
Brian Pina	1H	1,285	13,755	5/21/14	6/4/14	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 2094

PHOENIX TECHNOLOGY SERVICES SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1410809

JUN 23 2014

OPERATOR Chevron

RECEIVED

WELL NAME Red Hills 11-25-33 #1H

COUNTY & STATE

Lea County, NM

API WELL NUMBER	30-025-41848
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PROPOSED DIRECTION	179.56
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TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
1,212 ft	1,211.96 ft	0.3	102.51	-3.03	6.4	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
21-May-14	1,285 ft	0.36	169.75

SURVEY INSTRUMENT TYPE
P-360

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
4-Jun-14	13,755 ft	88.79	175.27

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
4-Jun-14	13,806 ft	88.79	175.27

Brian Pina

PRINT YOUR NAME ABOVE

* BCP *

SIGN YOUR NAME ABOVE

6/5/2014

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.78
DECLINATION OR GRID	Grid

MWD SUPERVISOR 1 Zak Dawson

DIRECTIONAL DRILLER 1

Keith Scheppler

MWD SUPERVISOR 2 Brian Pina

DIRECTIONAL DRILLER 2

Craig Cannon

1805 Brittmore Road

Houston, Texas 77043

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

DISTRICT I
1625 N. French Dr., Hobbs, NM 88241
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1233 Fax: (505) 748-1234

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6179

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, New Mexico 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-41848	Pool Code 97900	Pool Name RED HILLS; UPPER DONE SPRING SHALE
Property Code 313364	Property Name RED HILLS 11 25 33	Well Number 1H
UGRID No. 241333	Operator Name CHEVRON USA INC	Elevation 3415'

Surface Location

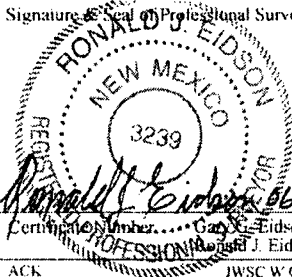
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	11	25-S	33-E		430	NORTH	340	EAST	LEA

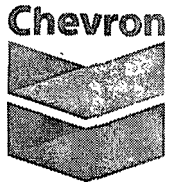
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	11	25-S	33-E		330	SOUTH	340	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=419575.1 N X=747002.1 E LAT.=32.151012' N LONG.=103.535239' W BOTTOM HOLE LOCATION Y=415055.7 N X=747036.6 E CORNER COORDINATES TABLE <table><tr><td>A</td><td>-</td><td>Y=419999.0 N, X=746020.6 E</td></tr><tr><td>B</td><td>-</td><td>Y=420007.5 N, X=747339.1 E</td></tr><tr><td>C</td><td>-</td><td>Y=414728.2 N, X=747379.1 E</td></tr><tr><td>D</td><td>-</td><td>Y=414718.9 N, X=746060.1 E</td></tr></table>	A	-	Y=419999.0 N, X=746020.6 E	B	-	Y=420007.5 N, X=747339.1 E	C	-	Y=414728.2 N, X=747379.1 E	D	-	Y=414718.9 N, X=746060.1 E	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail 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. MAY 22, 2013 Date of Survey _____ Signature & Seal of Professional Surveyor:  Certification Number: 12641 Professional Surveyor: Ronald J. Eidson 3239 ACK JWSC W.O. 13 (1.0542)
A	-	Y=419999.0 N, X=746020.6 E											
B	-	Y=420007.5 N, X=747339.1 E											
C	-	Y=414728.2 N, X=747379.1 E											
D	-	Y=414718.9 N, X=746060.1 E											



Chevron

Lea County NM (NAD27 NME)

Red Hills 11-25-33

1H

WB1/Job #1410809

Survey: Phoenix MWD Survey

Standard Survey Report

05 June, 2014





Phoenix Technology Services

Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 11-25-33
Well: 1H
Wellbore: WB1/Job #1410809
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3439.50usft (Ensign 153)
MD Reference: KB @ 3439.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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	Red Hills 11-25-33			
Site Position:		Northing:	419,575.10 usft	Latitude: 32° 9' 3.64335 N
From:	Map	Easting:	747,002.10 usft	Longitude: 103° 32' 6.86102 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 °

Well	1H			
Well Position	+N/-S	0.00 usft	Northing:	419,575.10 usft
	+E/-W	0.00 usft	Easting:	747,002.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,415.00 usft

Wellbore	WB1/Job #1410809				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	05/13/14	7.21	60.05	48,285

Design	Surveys (Ensign 153)			
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	179.56

Survey Program	Date 06/05/14			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
50.00	1,212.00	MS Gyro Survey (WB1/Job #1410809)	NS-GYRO-MS	North sensing gyrocompassing m/s
1,285.00	13,806.00	Phoenix MWD Survey (WB1/Job #141080)	MWD	MWD - Standard

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)
1,212.00	0.30	102.51	1,211.96	-3.03	6.40	3.08	0.00	0.00	0.00
Tie-on to MS Gyro Survey									
1,285.00	0.36	169.75	1,284.96	-3.30	6.63	3.35	0.51	0.08	92.11
First Phoenix MWD Survey									
1,462.00	0.44	166.01	1,461.95	-4.50	6.89	4.56	0.05	0.05	-2.11
1,643.00	0.59	175.16	1,642.95	-6.11	7.14	6.16	0.09	0.08	5.06
1,822.00	0.63	166.51	1,821.94	-7.98	7.44	8.04	0.06	0.02	-4.83
2,000.00	1.65	10.13	1,999.92	-6.41	8.12	6.47	1.26	0.57	-87.85
2,179.00	1.71	4.50	2,178.84	-1.21	8.79	1.28	0.10	0.03	-3.15



Phoenix Technology Services Survey Report



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Site: Red Hills 11-25-33
Well: 1H
Wellbore: WB1/Job #1410809
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
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MD Reference: KB @ 3439.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
2,358.00	1.94	7.18	2,357.75	4.46	9.37	-4.39	0.14	0.13	1.50
2,537.00	2.41	9.51	2,536.62	11.18	10.38	-11.10	0.27	0.26	1.30
2,716.00	2.32	326.36	2,715.48	17.90	8.99	-17.83	0.97	-0.05	-24.11
2,895.00	1.20	290.86	2,894.40	21.59	5.23	-21.55	0.85	-0.63	-19.83
3,074.00	1.15	292.65	3,073.36	22.95	1.82	-22.93	0.03	-0.03	1.00
3,253.00	0.95	305.24	3,252.33	24.49	-1.05	-24.50	0.17	-0.11	7.03
3,433.00	0.98	339.64	3,432.31	26.80	-2.80	-26.82	0.32	0.02	19.11
3,611.00	1.12	341.89	3,610.28	29.88	-3.87	-29.91	0.08	0.08	1.26
3,790.00	1.61	348.99	3,789.23	34.01	-4.90	-34.05	0.29	0.27	3.97
3,969.00	1.99	351.40	3,968.14	39.55	-5.84	-39.60	0.22	0.21	1.35
4,148.00	2.53	358.47	4,147.00	46.57	-6.41	-46.62	0.34	0.30	3.95
4,326.00	1.88	337.82	4,324.87	53.21	-7.62	-53.26	0.57	-0.37	-11.60
4,505.00	1.79	7.62	4,503.78	58.70	-8.36	-58.76	0.53	-0.05	16.65
4,684.00	2.02	23.21	4,682.68	64.37	-6.74	-64.42	0.32	0.13	8.71
4,863.00	2.14	58.68	4,861.57	69.00	-2.64	-69.02	0.71	0.07	19.82
4,987.00	2.04	61.30	4,985.49	71.27	1.27	-71.25	0.11	-0.08	2.11
5,146.00	1.55	59.11	5,144.41	73.73	5.60	-73.68	0.31	-0.31	-1.38
5,325.00	1.65	65.07	5,323.34	76.06	10.01	-75.98	0.11	0.06	3.33
5,504.00	1.62	86.55	5,502.27	77.30	14.87	-77.18	0.34	-0.02	12.00
5,682.00	0.32	194.02	5,680.25	76.97	17.27	-76.83	0.98	-0.73	60.38
5,861.00	0.06	181.43	5,859.25	76.39	17.14	-76.25	0.15	-0.15	-7.03
6,041.00	1.42	266.93	6,039.23	76.17	14.91	-76.06	0.79	0.76	47.50
6,220.00	1.37	253.36	6,218.17	75.44	10.65	-75.36	0.19	-0.03	-7.58
6,399.00	1.29	260.38	6,397.13	74.49	6.61	-74.44	0.10	-0.04	3.92
6,578.00	1.33	255.04	6,576.08	73.62	2.62	-73.60	0.07	0.02	-2.98
6,757.00	1.46	256.35	6,755.03	72.55	-1.61	-72.56	0.07	0.07	0.73
6,936.00	1.29	250.04	6,933.98	71.32	-5.72	-71.36	0.13	-0.09	-3.53
7,115.00	1.23	257.11	7,112.93	70.20	-9.48	-70.27	0.09	-0.03	3.95
7,293.00	1.87	232.15	7,290.87	67.99	-13.64	-68.10	0.51	0.36	-14.02
7,473.00	2.15	225.03	7,470.76	63.81	-18.35	-63.95	0.21	0.16	-3.96
7,652.00	2.06	221.82	7,649.64	59.04	-22.87	-59.21	0.08	-0.05	-1.79
7,831.00	2.15	215.55	7,828.52	53.91	-26.96	-54.11	0.14	0.05	-3.50
8,009.00	1.84	224.22	8,006.41	49.14	-30.90	-49.38	0.24	-0.17	4.87
8,189.00	1.72	216.90	8,186.32	44.91	-34.54	-45.17	0.14	-0.07	-4.07
8,367.00	1.61	214.73	8,364.25	40.72	-37.56	-41.01	0.07	-0.06	-1.22
8,546.00	1.51	210.72	8,543.18	36.63	-40.20	-36.93	0.08	-0.06	-2.24
8,719.00	1.39	204.97	8,716.13	32.76	-42.25	-33.09	0.11	-0.07	-3.32
8,895.00	1.19	182.50	8,892.08	29.00	-43.23	-29.33	0.31	-0.11	-12.77
8,985.00	6.56	163.48	8,981.84	23.14	-41.81	-23.46	6.05	5.97	-21.13
9,030.00	13.01	164.68	9,026.17	15.78	-39.74	-16.08	14.34	14.33	2.67
9,075.00	18.48	167.82	9,069.46	3.91	-36.89	-4.20	12.30	12.16	6.98
9,119.00	23.23	172.90	9,110.57	-11.53	-34.35	11.26	11.54	10.80	11.55
9,164.00	26.53	175.23	9,151.39	-30.35	-32.41	30.10	7.65	7.33	5.18



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 11-25-33
Well: 1H
Wellbore: WB1/Job #1410809
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3439.50usft (Ensign 153)
MD Reference: KB @ 3439.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
9,209.00	29.95	179.66	9,191.03	-51.61	-31.51	51.37	8.91	7.60	9.84
9,254.00	34.19	182.22	9,229.16	-75.49	-31.94	75.24	9.89	9.42	5.69
9,299.00	36.79	181.73	9,265.80	-101.60	-32.83	101.34	5.81	5.78	-1.09
9,343.00	39.48	178.01	9,300.41	-128.75	-32.74	128.50	8.04	6.11	-8.45
9,388.00	41.98	175.56	9,334.51	-158.06	-31.08	157.82	6.59	5.56	-5.44
9,433.00	44.64	176.49	9,367.25	-188.85	-28.95	188.62	6.08	5.91	2.07
9,477.00	48.12	176.62	9,397.60	-220.64	-27.04	220.43	7.91	7.91	0.30
9,522.00	52.60	176.47	9,426.30	-255.22	-24.95	255.02	9.96	9.96	-0.33
9,567.00	59.21	176.71	9,451.51	-292.40	-22.73	292.22	14.70	14.69	0.53
9,612.00	65.67	175.84	9,472.32	-332.19	-20.13	332.02	14.46	14.36	-1.93
9,657.00	72.27	176.97	9,488.46	-374.09	-17.51	373.94	14.85	14.67	2.51
9,701.00	77.52	178.42	9,499.92	-416.51	-15.81	416.38	12.35	11.93	3.30
9,746.00	82.43	179.53	9,507.75	-460.81	-15.02	460.68	11.18	10.91	2.47
9,767.00	84.96	179.37	9,510.06	-481.68	-14.82	481.55	12.07	12.05	-0.76
9,796.00	87.40	179.00	9,511.99	-510.61	-14.41	510.48	8.51	8.41	-1.28
9,885.00	90.00	180.00	9,514.01	-599.57	-13.63	599.45	3.13	2.92	1.12
9,974.00	91.00	181.00	9,513.23	-688.56	-14.41	688.43	1.59	1.12	1.12
10,064.00	91.60	181.60	9,511.19	-778.52	-16.45	778.37	0.94	0.67	0.67
10,154.00	90.30	180.60	9,509.70	-868.48	-18.18	868.32	1.82	-1.44	-1.11
10,243.00	90.68	180.54	9,508.94	-957.48	-19.06	957.30	0.43	0.43	-0.07
10,333.00	89.93	179.66	9,508.46	-1,047.47	-19.22	1,047.29	1.28	-0.83	-0.98
10,422.00	90.37	179.31	9,508.23	-1,136.47	-18.42	1,136.29	0.63	0.49	-0.39
10,512.00	90.68	179.13	9,507.40	-1,226.46	-17.20	1,226.29	0.40	0.34	-0.20
10,601.00	89.45	179.66	9,507.30	-1,315.45	-16.26	1,315.29	1.50	-1.38	0.60
10,690.00	88.92	179.57	9,508.57	-1,404.44	-15.66	1,404.28	0.60	-0.60	-0.10
10,780.00	88.22	178.52	9,510.81	-1,494.40	-14.16	1,494.24	1.40	-0.78	-1.17
10,869.00	88.44	178.78	9,513.41	-1,583.33	-12.06	1,583.19	0.38	0.25	0.29
10,959.00	88.48	178.17	9,515.83	-1,673.27	-9.67	1,673.14	0.68	0.04	-0.68
11,048.00	88.53	177.38	9,518.15	-1,762.17	-6.21	1,762.07	0.89	0.06	-0.89
11,138.00	89.32	179.22	9,519.84	-1,852.11	-3.55	1,852.03	2.22	0.88	2.04
11,227.00	89.05	179.40	9,521.10	-1,941.09	-2.47	1,941.02	0.36	-0.30	0.20
11,316.00	87.91	178.78	9,523.46	-2,030.05	-1.06	2,029.98	1.46	-1.28	-0.70
11,406.00	89.76	179.75	9,525.29	-2,120.02	0.09	2,119.96	2.32	2.06	1.08
11,495.00	90.42	179.49	9,525.15	-2,209.02	0.68	2,208.96	0.80	0.74	-0.29
11,585.00	90.46	179.13	9,524.46	-2,299.01	1.77	2,298.95	0.40	0.04	-0.40
11,674.00	89.67	178.25	9,524.36	-2,387.98	3.80	2,387.94	1.33	-0.89	-0.99
11,764.00	90.02	180.63	9,524.60	-2,477.97	4.68	2,477.93	2.67	0.39	2.64
11,853.00	89.98	181.33	9,524.60	-2,566.96	3.16	2,566.91	0.79	-0.04	0.79
11,943.00	91.16	180.63	9,523.71	-2,656.94	1.62	2,656.87	1.52	1.31	-0.78
12,032.00	90.86	179.31	9,522.14	-2,745.92	1.67	2,745.85	1.52	-0.34	-1.48
12,121.00	91.69	179.66	9,520.16	-2,834.90	2.47	2,834.83	1.01	0.93	0.39
12,211.00	92.31	179.40	9,517.02	-2,924.84	3.20	2,924.78	0.75	0.69	-0.29
12,300.00	91.65	180.10	9,513.94	-3,013.78	3.59	3,013.72	1.08	-0.74	0.79
12,390.00	92.31	179.92	9,510.83	-3,103.73	3.58	3,103.66	0.76	0.73	-0.20



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 11-25-33
Well: 1H
Wellbore: WB1/Job #1410809
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3439.50usft (Ensign 153)
MD Reference: KB @ 3439.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
12,479.00	91.12	181.07	9,508.17	-3,192.68	2.81	3,192.61	1.86	-1.34	1.29
12,569.00	89.01	181.15	9,508.07	-3,282.66	1.06	3,282.57	2.35	-2.34	0.09
12,658.00	88.40	180.72	9,510.08	-3,371.62	-0.39	3,371.52	0.84	-0.69	-0.48
12,748.00	89.05	181.33	9,512.08	-3,461.59	-2.00	3,461.47	0.99	0.72	0.68
12,837.00	88.35	180.98	9,514.10	-3,550.54	-3.79	3,550.41	0.88	-0.79	-0.39
12,927.00	88.92	180.80	9,516.25	-3,640.51	-5.19	3,640.36	0.66	0.63	-0.20
13,016.00	89.32	180.72	9,517.61	-3,729.49	-6.37	3,729.33	0.46	0.45	-0.09
13,106.00	88.84	180.63	9,519.06	-3,819.47	-7.43	3,819.30	0.54	-0.53	-0.10
13,195.00	89.19	180.80	9,520.59	-3,908.45	-8.54	3,908.27	0.44	0.39	0.19
13,285.00	89.76	179.31	9,521.41	-3,998.44	-8.63	3,998.26	1.77	0.63	-1.66
13,374.00	90.07	178.34	9,521.54	-4,087.42	-6.80	4,087.25	1.14	0.35	-1.09
13,463.00	90.64	178.43	9,520.99	-4,176.39	-4.29	4,176.23	0.65	0.64	0.10
13,553.00	87.82	176.41	9,522.20	-4,266.27	-0.24	4,266.15	3.85	-3.13	-2.24
13,642.00	88.44	176.06	9,525.11	-4,355.03	5.60	4,354.95	0.80	0.70	-0.39
13,732.00	88.48	175.62	9,527.53	-4,444.76	12.12	4,444.73	0.49	0.04	-0.49
13,755.00	88.79	175.27	9,528.07	-4,467.69	13.95	4,467.66	2.03	1.35	-1.52
Last Phoenix MWD Survey									
13,806.00	88.79	175.27	9,529.15	-4,518.50	18.16	4,518.51	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,212.00	1,211.96	-3.03	6.40	Tie-on to MS Gyro Survey
1,285.00	1,284.96	-3.30	6.63	First Phoenix MWD Survey
13,755.00	9,528.07	-4,467.69	13.95	Last Phoenix MWD Survey
13,806.00	9,529.15	-4,518.50	18.16	Projection to TD

Checked By: _____ Approved By: _____ Date: _____