



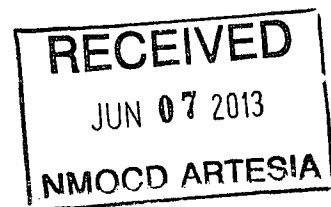
Scientific Drilling

Gyroscopic Survey Report
for
BOPCO, LLC

30 015 40765

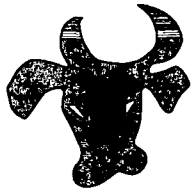
Well Location	EDDY COUNTY, NEW MEXICO
Well Name	PLU ROSS RANCH 28-25-30 USA 1-H
Rig Name	LATSHAW 14
Survey Date	1/8/2013
Latitude	32.0940000°N
North Reference	Grid North
Grid Correction	-0.23 deg
Depth Reference	RKB (22.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	FINAL GYRO SURVEY
Operator(s)	FRANK RENTERIA

Well Notes





Survey:		FINAL GYRO SURVEY							
Survey Date:		1/8/2013							
MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	Closure Direction	Dogleg Severity	Closure Distance
ft	deg	deg	ft	ft	ft	ft	deg	7100ft	ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00
100.00	0.13	173.08	100.00	-0.11	-0.11	0.01	173.08	0.13	0.12
200.00	0.31	202.97	200.00	-0.48	-0.48	-0.08	189.16	0.20	0.48
300.00	0.29	204.91	300.00	-0.95	-0.95	-0.29	196.82	0.02	1.00
400.00	0.22	257.09	400.00	-1.23	-1.23	-0.58	205.49	0.23	1.36
500.00	0.21	319.41	500.00	-1.13	-1.13	-0.90	218.49	0.23	1.44
600.00	0.40	327.99	599.99	-0.69	-0.69	-1.20	240.21	0.19	1.39
700.00	0.49	355.70	699.99	0.03	0.03	-1.42	271.21	0.23	1.42
800.00	0.71	53.58	799.99	0.82	0.82	-0.95	310.91	0.61	1.26
900.00	1.69	63.47	899.96	1.85	1.85	0.87	25.27	1.00	2.05
1000.00	2.13	67.79	999.91	3.22	3.22	3.92	50.61	0.46	5.07
1100.00	2.48	68.51	1099.83	4.71	4.71	7.64	58.37	0.35	8.98
1200.00	2.43	63.13	1199.74	6.46	6.46	11.55	60.78	0.23	13.23
1300.00	2.22	54.86	1299.65	8.53	8.53	15.02	60.41	0.40	17.27
1400.00	2.04	37.48	1399.59	11.05	11.05	17.68	57.99	0.67	20.85
1500.00	1.97	31.91	1499.52	13.92	13.92	19.67	54.71	0.21	24.10



Bopco L P

Eddy County NM (NAD 27)

PLU Ross Ranch 28-25-30 #1H

#1H

Wellbore #1 / Job #1211257

Survey: Phoenix MWD

Phoenix Final Survey Report

17 January, 2013



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services

Phoenix Final Survey Report



Company:	Bopco L P	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County NM (NAD 27)	TVD Reference:	WELL @ 3213.00usft (Original Well Elev)
Site:	PLU Ross Ranch 28-25-30 #1H	MD Reference:	WELL @ 3213.00usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1211257	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Rig: Latshaw 14)	Database:	GCR DB

Project		Eddy County NM (NAD 27)	
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: PLU Ross Ranch 28-25-30 #1H					
Site Position:		Northing:		398,209.00 usft	
From: Map		Easting:		636,627.00 usft	
Position Uncertainty: 0.00 usft		Slot Radius:		13-3/16 "	
				Latitude: 32° 5' 38.4871 N	
				Longitude: 103° 53' 31.7206 W	
				Grid Convergence: 0.23 °	

Well	#1H					
Well Position	+N/-S	0.00 usft	Northing:	398,209.00 usft	Latitude:	32° 5' 38.4871 N
	+E/-W	0.00 usft	Easting:	636,627.00 usft	Longitude:	103° 53' 31.7206 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	17.00 usft	Ground Level:	3,196.00 usft

Wellbore		Wellbore #1 / Job #1211257			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/12/13	7.53	59.97	48,347

Design		Surveys (Rig: Latshaw 14)		
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	359.59



Phoenix Technology Services

Phoenix Final Survey Report



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Site:	PLU Ross Ranch 28-25-30 #1H	MD Reference:	WELL @ 3213.00usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1211257	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Rig: Latshaw 14)	Database:	GCR DB

Survey Program		Date	01/17/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,500.00	SDI Gyro (Wellbore #1 / Job #1211257)	UNKNOWN	Unknown survey	
1,738.00	13,792.00	Phoenix MWD (Wellbore #1 / Job #121125)	MWD	MWD - Standard	

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)	
1,500.00	1.97	31.91	1,713.48	1,499.52	13.95	19.67	13.80	0.00	398,222.95	636,646.67	
1,738.00	1.60	44.80	1,475.59	1,737.41	19.78	24.17	19.60	0.23	398,228.78	636,651.17	
First Phoenix MWD Survey											
1,928.00	0.80	38.20	1,285.63	1,927.37	22.70	26.86	22.51	0.43	398,231.70	636,653.86	
2,119.00	0.30	67.40	1,094.64	2,118.36	23.94	28.15	23.74	0.29	398,232.94	636,655.15	
2,309.00	0.30	63.80	904.65	2,308.35	24.35	29.06	24.14	0.01	398,233.35	636,656.06	
2,499.00	0.50	19.30	714.65	2,498.35	25.35	29.78	25.14	0.19	398,234.35	636,656.78	
2,689.00	0.50	0.10	524.66	2,688.34	26.96	30.05	26.75	0.09	398,235.96	636,657.05	
2,879.00	0.80	327.80	334.67	2,878.33	28.92	29.35	28.70	0.24	398,237.92	636,656.35	
3,070.00	1.80	85.00	143.70	3,069.30	30.31	31.62	30.08	1.19	398,239.31	636,658.62	
3,260.00	1.50	135.30	-46.23	3,259.23	28.80	36.35	28.54	0.75	398,237.80	636,663.35	
3,450.00	5.00	148.50	-235.90	3,448.90	19.97	42.42	19.66	1.87	398,228.97	636,669.42	
3,644.00	2.60	162.10	-429.46	3,642.46	8.57	48.19	8.23	1.31	398,217.57	636,675.19	
3,833.00	1.40	199.70	-618.35	3,831.35	2.32	48.73	1.97	0.91	398,211.32	636,675.73	
4,024.00	0.80	214.00	-809.31	4,022.31	-0.99	47.20	-1.32	0.34	398,208.01	636,674.20	
4,214.00	0.70	215.90	-999.30	4,212.30	-3.02	45.78	-3.35	0.05	398,205.98	636,672.78	
4,405.00	0.70	210.50	-1,190.28	4,403.28	-4.98	44.50	-5.29	0.03	398,204.02	636,671.50	
4,595.00	0.70	210.70	-1,380.27	4,593.27	-6.97	43.32	-7.28	0.00	398,202.03	636,670.32	
4,785.00	0.70	206.80	-1,570.25	4,783.25	-9.01	42.21	-9.31	0.03	398,199.99	636,669.21	
4,976.00	0.60	205.80	-1,761.24	4,974.24	-10.95	41.24	-11.24	0.05	398,198.05	636,668.24	
5,166.00	0.50	216.10	-1,951.23	5,164.23	-12.51	40.32	-12.80	0.07	398,196.49	636,667.32	



Phoenix Technology Services

Phoenix Final Survey Report



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Project:	Eddy County NM (NAD 27)	TVD Reference:	WELL @ 3213.00usft (Original Well Elev)
Site:	PLU Ross Ranch 28-25-30 #1H	MD Reference:	WELL @ 3213.00usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1211257	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Rig: Latshaw 14)	Database:	GCR DB

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)	
5,356.00	0.50	218.80	-2,141.23	5,354.23	-13.83	39.31	-14.11	0.01	398,195.17	636,666.31	
5,546.00	0.50	204.10	-2,331.22	5,544.22	-15.23	38.46	-15.51	0.07	398,193.77	636,665.46	
5,736.00	0.70	194.90	-2,521.21	5,734.21	-17.11	37.82	-17.38	0.12	398,191.89	636,664.82	
5,926.00	0.70	211.70	-2,711.19	5,924.19	-19.22	36.91	-19.48	0.11	398,189.78	636,663.91	
6,116.00	0.70	220.90	-2,901.18	6,114.18	-21.09	35.54	-21.34	0.06	398,187.91	636,662.54	
6,306.00	0.70	217.60	-3,091.17	6,304.17	-22.88	34.07	-23.13	0.02	398,186.12	636,661.07	
6,496.00	0.70	214.70	-3,281.15	6,494.15	-24.76	32.70	-24.99	0.02	398,184.24	636,659.70	
6,686.00	0.70	192.80	-3,471.14	6,684.14	-26.84	31.79	-27.07	0.14	398,182.16	636,658.79	
6,876.00	0.80	195.30	-3,661.12	6,874.12	-29.25	31.18	-29.48	0.06	398,179.75	636,658.18	
7,067.00	0.90	197.20	-3,852.10	7,065.10	-31.97	30.38	-32.19	0.05	398,177.03	636,657.38	
7,256.00	1.10	177.20	-4,041.07	7,254.07	-35.20	30.03	-35.42	0.21	398,173.80	636,657.03	
7,446.00	1.70	180.90	-4,231.01	7,444.01	-39.84	30.08	-40.06	0.32	398,169.16	636,657.08	
7,635.00	1.60	148.30	-4,419.94	7,632.94	-44.89	31.42	-45.11	0.49	398,164.11	636,658.42	
7,825.00	1.80	112.30	-4,609.86	7,822.86	-48.28	35.58	-48.53	0.56	398,160.72	636,662.58	
8,015.00	1.70	194.90	-4,799.80	8,012.80	-52.14	37.61	-52.40	1.22	398,156.86	636,664.61	
8,205.00	2.20	237.90	-4,989.70	8,202.70	-56.80	33.80	-57.04	0.79	398,152.20	636,660.80	
8,343.00	2.50	263.00	-5,127.59	8,340.59	-58.57	28.57	-58.77	0.77	398,150.43	636,655.57	
8,375.00	1.10	313.90	-5,159.57	8,372.57	-58.44	27.65	-58.64	6.24	398,150.56	636,654.65	
8,406.00	4.50	353.90	-5,190.53	8,403.53	-57.03	27.31	-57.22	12.02	398,151.97	636,654.31	
8,438.00	6.80	19.40	-5,222.38	8,435.38	-53.99	27.80	-54.19	10.47	398,155.01	636,654.80	
8,469.00	9.80	354.80	-5,253.06	8,466.06	-49.63	28.18	-49.83	14.79	398,159.37	636,655.18	
8,498.00	10.80	349.80	-5,281.59	8,494.59	-44.50	27.47	-44.69	4.62	398,164.50	636,654.47	
8,532.00	15.00	345.70	-5,314.73	8,527.73	-37.10	25.82	-37.28	12.64	398,171.90	636,652.82	
8,564.00	18.60	354.10	-5,345.36	8,558.36	-28.00	24.27	-28.18	13.54	398,181.00	636,651.27	
8,596.00	21.80	353.00	-5,375.39	8,588.39	-17.03	23.02	-17.19	10.07	398,191.97	636,650.02	
8,627.00	26.70	352.20	-5,403.65	8,616.65	-4.41	21.37	-4.56	15.84	398,204.59	636,648.37	
8,659.00	29.40	352.80	-5,431.88	8,644.88	10.51	19.41	10.37	8.48	398,219.51	636,646.41	



Phoenix Technology Services

Phoenix Final Survey Report



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Site:	PLU Ross Ranch 28-25-30 #1H	MD Reference:	WELL @ 3213.00usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1211257	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Rig: Latshaw 14)	Database:	GCR DB

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)	
8,690.00	32.70	351.80	-5,458.44	8,671.44	26.35	17.27	26.23	10.77	398,235.35	636,644.27	
8,722.00	34.90	353.90	-5,485.03	8,698.03	44.02	15.06	43.91	7.78	398,253.02	636,642.06	
8,754.00	36.80	359.30	-5,510.97	8,723.97	62.71	13.97	62.61	11.52	398,271.71	636,640.97	
8,786.00	38.30	3.20	-5,536.35	8,749.35	82.20	14.41	82.09	8.78	398,291.20	636,641.41	
8,818.00	42.50	3.20	-5,560.71	8,773.71	102.90	15.56	102.79	13.12	398,311.90	636,642.56	
8,850.00	45.90	1.00	-5,583.65	8,796.65	125.19	16.37	125.07	11.65	398,334.19	636,643.37	
8,881.00	47.70	358.90	-5,604.87	8,817.87	147.78	16.34	147.66	7.62	398,356.78	636,643.34	
8,913.00	52.20	358.60	-5,625.46	8,838.46	172.27	15.80	172.15	14.08	398,381.27	636,642.80	
8,944.00	55.60	358.90	-5,643.72	8,856.72	197.30	15.26	197.19	11.00	398,406.30	636,642.26	
8,976.00	57.60	359.50	-5,661.33	8,874.33	224.01	14.89	223.90	6.44	398,433.01	636,641.89	
9,008.00	60.70	358.90	-5,677.74	8,890.74	251.48	14.50	251.37	9.82	398,460.48	636,641.50	
9,040.00	63.90	359.00	-5,692.61	8,905.61	279.81	13.98	279.70	10.00	398,488.81	636,640.98	
9,068.00	66.80	358.10	-5,704.29	8,917.29	305.24	13.34	305.14	10.76	398,514.24	636,640.34	
9,103.00	70.80	358.10	-5,716.94	8,929.94	337.85	12.26	337.75	11.43	398,546.85	636,639.26	
9,134.00	74.70	357.70	-5,726.14	8,939.14	367.43	11.17	367.34	12.64	398,576.43	636,638.17	
9,166.00	78.70	357.40	-5,733.50	8,946.50	398.54	9.84	398.46	12.53	398,607.54	636,636.84	
9,198.00	82.70	357.20	-5,738.67	8,951.67	430.07	8.35	430.00	12.52	398,639.07	636,635.35	
9,262.00	90.00	356.70	-5,742.74	8,955.74	493.81	4.95	493.76	11.43	398,702.81	636,631.95	
9,357.00	92.40	357.20	-5,740.75	8,953.75	588.65	-0.10	588.63	2.58	398,797.65	636,626.90	
9,452.00	92.10	356.80	-5,737.02	8,950.02	683.44	-5.07	683.46	0.53	398,892.44	636,621.93	
9,547.00	93.00	358.70	-5,732.79	8,945.79	778.27	-8.79	778.31	2.21	398,987.27	636,618.21	
9,641.00	92.70	358.20	-5,728.12	8,941.12	872.12	-11.33	872.18	0.62	399,081.12	636,615.67	
9,736.00	93.20	359.10	-5,723.23	8,936.23	966.97	-13.57	967.04	1.08	399,175.97	636,613.43	
9,831.00	93.50	358.60	-5,717.68	8,930.68	1,061.78	-15.47	1,061.87	0.61	399,270.78	636,611.53	
9,926.00	93.20	359.00	-5,712.13	8,925.13	1,156.60	-17.46	1,156.70	0.53	399,365.60	636,609.54	
10,021.00	93.10	0.90	-5,706.90	8,919.90	1,251.45	-17.54	1,251.55	2.00	399,460.45	636,609.46	
10,117.00	90.10	2.10	-5,704.22	8,917.22	1,347.37	-15.03	1,347.44	3.37	399,556.37	636,611.97	



Phoenix Technology Services
Phoenix Final Survey Report



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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)	
10,212.00	90.00	2.00	-5,704.14	8,917.14	1,442.31	-11.63	1,442.36	0.15	399,651.31	636,615.37	
10,307.00	89.90	2.50	-5,704.22	8,917.22	1,537.24	-7.90	1,537.25	0.54	399,746.24	636,619.10	
10,402.00	90.30	2.00	-5,704.06	8,917.06	1,632.16	-4.17	1,632.15	0.67	399,841.16	636,622.83	
10,498.00	90.00	1.90	-5,703.81	8,916.81	1,728.11	-0.90	1,728.07	0.33	399,937.11	636,626.10	
10,593.00	89.20	1.30	-5,704.47	8,917.47	1,823.07	1.75	1,823.01	1.05	400,032.07	636,628.75	
10,688.00	89.10	1.20	-5,705.88	8,918.88	1,918.03	3.82	1,917.96	0.15	400,127.03	636,630.82	
10,783.00	88.40	0.50	-5,707.95	8,920.95	2,013.00	5.23	2,012.91	1.04	400,222.00	636,632.23	
10,878.00	90.20	0.60	-5,709.11	8,922.11	2,107.98	6.14	2,107.88	1.90	400,316.98	636,633.14	
10,973.00	89.80	0.40	-5,709.11	8,922.11	2,202.98	6.97	2,202.87	0.47	400,411.98	636,633.97	
11,067.00	89.90	0.40	-5,709.36	8,922.36	2,296.98	7.63	2,296.86	0.11	400,505.98	636,634.63	
11,162.00	89.60	359.70	-5,709.77	8,922.77	2,391.97	7.71	2,391.86	0.80	400,600.97	636,634.71	
11,258.00	91.00	359.70	-5,709.27	8,922.27	2,487.97	7.21	2,487.85	1.46	400,696.97	636,634.21	
11,353.00	90.50	359.50	-5,708.03	8,921.03	2,582.96	6.54	2,582.85	0.57	400,791.96	636,633.54	
11,447.00	90.30	359.00	-5,707.37	8,920.37	2,676.95	5.31	2,676.84	0.57	400,885.95	636,632.31	
11,543.00	90.40	359.00	-5,706.78	8,919.78	2,772.93	3.64	2,772.83	0.10	400,981.93	636,630.64	
11,638.00	89.90	358.70	-5,706.54	8,919.54	2,867.91	1.73	2,867.83	0.61	401,076.91	636,628.73	
11,733.00	89.50	358.10	-5,707.03	8,920.03	2,962.87	-0.92	2,962.80	0.76	401,171.87	636,626.08	
11,828.00	89.10	357.90	-5,708.19	8,921.19	3,057.81	-4.24	3,057.76	0.47	401,266.81	636,622.76	
11,923.00	88.60	356.90	-5,710.10	8,923.10	3,152.69	-8.54	3,152.67	1.18	401,361.69	636,618.46	
12,018.00	89.90	357.90	-5,711.34	8,924.34	3,247.58	-12.85	3,247.59	1.73	401,456.58	636,614.15	
12,113.00	89.50	357.70	-5,711.84	8,924.84	3,342.51	-16.50	3,342.54	0.47	401,551.51	636,610.50	
12,208.00	90.10	358.20	-5,712.17	8,925.17	3,437.45	-19.90	3,437.50	0.82	401,646.45	636,607.10	
12,303.00	89.60	358.70	-5,712.42	8,925.42	3,532.41	-22.47	3,532.48	0.74	401,741.41	636,604.53	
12,398.00	89.80	358.90	-5,712.92	8,925.92	3,627.39	-24.46	3,627.47	0.30	401,836.39	636,602.54	
12,493.00	89.30	358.40	-5,713.67	8,926.67	3,722.36	-26.70	3,722.45	0.74	401,931.36	636,600.30	
12,588.00	90.90	358.60	-5,713.50	8,926.50	3,817.32	-29.18	3,817.43	1.70	402,026.32	636,597.82	
12,682.00	90.50	358.50	-5,712.35	8,925.35	3,911.29	-31.56	3,911.41	0.44	402,120.29	636,595.44	



Phoenix Technology Services

Phoenix Final Survey Report



Company:	Bopco L P	Local Co-ordinate Reference:	Well #1H
Project:	Eddy County NM (NAD 27)	TVD Reference:	WELL @ 3213.00usft (Original Well Elev)
Site:	PLU Ross Ranch 28-25-30 #1H	MD Reference:	WELL @ 3213.00usft (Original Well Elev)
Well:	#1H	North Reference:	Grid
Wellbore:	Wellbore #1 / Job #1211257	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Rig: Latshaw 14)	Database:	GCR DB

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)	
12,777.00	89.80	358.30	-5,712.10	8,925.10	4,006.25	-34.21	4,006.39	0.77	402,215.25	636,592.79	
12,872.00	89.30	358.20	-5,712.85	8,925.85	4,101.20	-37.11	4,101.36	0.54	402,310.20	636,589.89	
12,967.00	89.20	359.30	-5,714.09	8,927.09	4,196.17	-39.19	4,196.34	1.16	402,405.17	636,587.81	
13,062.00	89.20	358.80	-5,715.42	8,928.42	4,291.15	-40.76	4,291.33	0.53	402,500.15	636,586.24	
13,156.00	89.80	0.60	-5,716.24	8,929.24	4,385.14	-41.25	4,385.32	2.02	402,594.14	636,585.75	
13,251.00	89.90	0.30	-5,716.49	8,929.49	4,480.13	-40.51	4,480.31	0.33	402,689.13	636,586.49	
13,347.00	89.50	0.70	-5,716.99	8,929.99	4,576.13	-39.67	4,576.29	0.59	402,785.13	636,587.33	
13,442.00	89.30	0.20	-5,717.99	8,930.99	4,671.12	-38.92	4,671.28	0.57	402,880.12	636,588.08	
13,537.00	89.40	0.50	-5,719.06	8,932.06	4,766.11	-38.34	4,766.26	0.33	402,975.11	636,588.66	
13,632.00	89.10	359.90	-5,720.31	8,933.31	4,861.10	-38.01	4,861.25	0.71	403,070.10	636,588.99	
13,726.00	88.70	359.70	-5,722.11	8,935.11	4,955.08	-38.34	4,955.23	0.48	403,164.08	636,588.66	
Phoenix MWD Survey											
13,792.00	88.70	359.70	-5,723.61	8,936.61	5,021.07	-38.69	5,021.21	0.00	403,230.07	636,588.31	
Projection to Bit											

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,738.00	1,737.41	19.78	24.17	First Phoenix MWD Survey
13,726.00	8,935.11	4,955.08	-38.34	Phoenix MWD Survey
13,792.00	8,936.61	5,021.07	-38.69	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____