

A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0802 • (800) 606-GYRO • Fax (361) 767-0612

July 2, 2013

COG Operating LLC (Concho)
One Concho Center
600 W. Illinois Avenue
Midland, TX 79701

Attn: Kanicia Castillo

15- 41272

Re: Tex Mack 11 Federal No 118H

Please find enclosed a copy of the survey from 0' to 5,841' ran on the above referenced well.

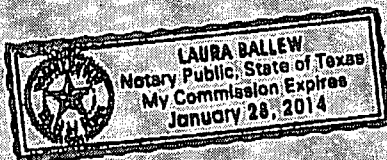
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 2nd day of July, A.D., 2013, by Keith Havelka.




Laura Balley
Notary Public, State of Texas



Company: COG Operating (Concho) LLC

Lease/Well: Tex Mack 11 Federal/No 118H

Location: S-11 T17S R31E

Rig Name: Silver Oak 3

State/County: New Mexico /Eddy

Latitude: 32.84, Longitude: -103.85

GRID North is 0.26 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB=17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: final survey .ut

Minimum Curvature Method

Report Date/Time: 7/2/2013 / 12:45

Vaughn Energy Services

Fort Worth, Texas

817-741-3810

Surveyor: Tim Kaczor

Tex Mack 11 Federal No 118H / API 30-015-41272

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
100.00	0.47	119.39	100.00	-0.20	0.36	-0.20	0.41	119.39	0.47
200.00	0.48	169.66	200.00	-0.82	0.79	-0.82	1.14	135.93	0.40
300.00	0.42	171.31	299.99	-1.60	0.92	-1.60	1.84	149.92	0.07
400.00	0.79	197.22	399.99	-2.62	0.77	-2.62	2.73	163.54	0.46
500.00	0.84	183.29	499.98	-4.01	0.63	-4.01	4.05	172.52	0.20
600.00	0.60	181.42	599.97	-5.27	0.47	-5.27	5.29	174.88	0.24
700.00	0.69	180.09	699.96	-6.39	0.46	-6.39	6.41	175.90	0.10
800.00	0.53	177.78	799.96	-7.46	0.48	-7.46	7.47	178.35	0.17
900.00	0.45	187.31	899.95	-8.30	0.44	-8.30	8.32	176.94	0.11
1000.00	0.45	172.54	999.95	-9.08	0.44	-9.08	9.09	177.20	0.11
1100.00	0.44	187.75	1099.95	-9.84	0.44	-9.84	9.85	177.42	0.12
1200.00	0.41	175.02	1199.94	-10.58	0.42	-10.58	10.59	177.71	0.10
1300.00	0.25	168.51	1299.94	-11.14	0.53	-11.14	11.15	177.26	0.19
1400.00	0.26	109.19	1399.94	-11.42	0.83	-11.42	11.45	175.85	0.21
1500.00	0.32	55.77	1499.94	-11.34	1.27	-11.34	11.41	173.59	0.27
1600.00	0.56	46.23	1599.94	-10.84	1.88	-10.84	11.00	170.27	0.25
1700.00	0.81	57.15	1699.93	-10.12	2.81	-10.12	10.60	164.48	0.28
1800.00	0.73	56.80	1799.92	-9.38	3.94	-9.38	10.18	157.25	0.09

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.84	55.07	1899.91	-8.72	4.92	-8.72	10.01	150.54	0.09
2000.00	0.37	32.59	1999.91	-8.13	5.56	-8.13	9.84	145.64	0.33
2100.00	0.35	29.44	2099.81	-7.59	5.88	-7.59	9.80	142.24	0.03
2200.00	0.10	25.38	2199.81	-7.25	6.08	-7.25	9.48	140.08	0.25
2300.00	0.12	357.43	2299.81	-7.07	6.10	-7.07	9.33	139.22	0.05
2400.00	0.15	300.83	2399.91	-6.90	5.98	-6.90	9.13	139.09	0.13
2500.00	0.15	282.87	2499.91	-6.85	5.74	-6.85	8.94	140.05	0.10
2600.00	0.28	304.38	2599.91	-6.74	5.42	-6.74	8.65	141.20	0.17
2700.00	0.48	305.24	2699.90	-6.38	4.91	-6.38	8.05	142.45	0.20
2800.00	0.45	309.54	2799.90	-5.90	4.28	-5.90	7.29	144.07	0.04
2900.00	0.71	310.35	2899.90	-5.26	3.51	-5.26	6.32	146.28	0.26
3000.00	0.57	314.31	2999.89	-4.51	2.68	-4.51	5.25	149.25	0.14
3100.00	0.90	309.75	3099.88	-3.66	1.72	-3.66	4.05	154.78	0.33
3200.00	0.75	315.35	3199.87	-2.70	0.86	-2.70	2.78	166.16	0.17
3300.00	0.74	312.26	3299.86	-1.80	-0.27	-1.80	1.82	188.52	0.04
3400.00	0.89	311.90	3399.85	-0.84	-1.33	-0.84	1.58	237.61	0.15
3500.00	0.88	310.88	3499.84	0.17	-2.48	0.17	2.48	273.88	0.03
3600.00	0.78	308.32	3599.83	1.08	-3.58	1.08	3.74	288.82	0.09
3700.00	0.66	306.76	3699.82	1.85	-4.57	1.85	4.93	291.99	0.13
3800.00	0.60	308.94	3799.82	2.52	-5.44	2.52	5.99	294.84	0.06
3900.00	0.80	305.42	3899.81	3.25	-6.41	3.25	7.19	296.87	0.21
4000.00	0.65	293.87	3999.80	3.89	-7.51	3.89	8.45	297.38	0.21
4100.00	0.68	305.18	4099.79	4.48	-8.51	4.48	9.61	297.85	0.13
4200.00	0.63	305.07	4199.79	5.12	-9.45	5.12	10.75	298.44	0.05
4300.00	0.42	306.96	4299.78	5.68	-10.19	5.68	11.68	298.03	0.21
4400.00	0.35	306.32	4399.78	6.06	-10.74	6.06	12.33	298.44	0.07
4500.00	0.52	310.46	4499.78	6.54	-11.33	6.54	13.08	298.98	0.17
4600.00	0.33	291.01	4599.78	6.93	-11.94	6.93	13.81	300.14	0.24
4700.00	0.22	250.37	4699.77	6.97	-12.38	6.97	14.21	299.37	0.21
4800.00	0.20	303.06	4799.77	7.00	-12.71	7.00	14.51	298.84	0.19
4900.00	0.23	346.72	4899.77	7.29	-12.90	7.29	14.82	299.48	0.16
5000.00	0.43	325.48	4999.77	7.80	-13.16	7.80	15.29	300.65	0.23
5100.00	0.42	319.25	5099.77	8.38	-13.61	8.38	15.98	301.63	0.05
5200.00	0.42	313.28	5199.77	8.91	-14.11	8.91	16.69	302.26	0.04
5300.00	0.35	306.04	5299.76	9.34	-14.63	9.34	17.38	302.66	0.08
5400.00	0.33	273.92	5399.76	9.54	-15.16	9.54	17.91	302.18	0.19
5500.00	0.27	295.49	5499.76	9.66	-15.66	9.66	18.40	301.68	0.12
5600.00	0.37	300.82	5599.76	9.93	-16.15	9.93	18.98	301.59	0.11
5700.00	0.34	301.82	5699.76	10.26	-16.69	10.26	19.59	301.58	0.03

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.37	303.25	5799.76	10.59	-17.21	10.59	20.21	301.61	0.03
5841.00	0.31	326.60	5840.78	10.76	-17.39	10.76	20.44	301.75	0.38



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

July 16, 2013

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

RE: Tex Mack 11 Federal #118H
785' FSL & 290' FWL
Sec. 11, T17S, R31E
Eddy County, New Mexico

Dear Sir,

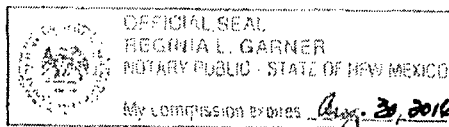
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 16th day of July, 2013.

Notary Public

Tex Mack 11 Federal #118H

Date	Depth	Dev/Incl	Dir/Azm
6/19/2013	275	0.10	
6/19/2013	412	0.70	
6/19/2013	621	0.80	
6/21/2013	867	0.90	
6/21/2013	1110	0.30	
6/21/2013	1380	0.40	
6/22/2013	1629	0.50	
6/22/2013	1865	0.50	
6/23/2013	2179	0.50	
6/24/2013	2429	0.40	
6/24/2013	2678	0.60	
6/24/2013	2928	0.70	
6/25/2013	3396	0.50	
6/25/2013	3677	0.80	
6/26/2013	4584	0.20	
6/26/2013	4834	0.50	
6/26/2013	5084	0.30	
6/27/2013	5336	0.60	
6/27/2013	5586	0.40	
6/28/2013	5980	6.50	92.90
6/28/2013	6011	10.20	94.40
6/28/2013	6043	13.90	93.70
6/28/2013	6075	17.60	92.90
6/29/2013	6106	20.90	92.20
6/29/2013	6137	24.10	92.90
6/29/2013	6168	27.10	94.40
6/29/2013	6199	29.70	96.00
6/29/2013	6230	32.60	97.30
6/29/2013	6262	35.80	98.70
6/29/2013	6293	38.60	99.70
6/29/2013	6324	41.10	100.20
6/29/2013	6355	43.50	101.00
6/29/2013	6386	46.50	101.30
6/29/2013	6418	49.60	101.40
6/29/2013	6449	52.20	101.70
6/29/2013	6480	55.30	101.70
6/29/2013	6511	58.20	101.50
6/29/2013	6542	61.20	101.20
6/29/2013	6573	64.40	100.50
6/30/2013	6604	67.60	100.00
6/30/2013	6635	70.70	99.50
6/30/2013	6666	73.40	99.50
6/30/2013	6729	80.20	100.10

Date	Depth	Dev/Incl	Dir/Azm
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6/30/2013	6760	84.00	100.00
7/1/2013	6812	89.00	100.10
7/1/2013	6998	89.90	98.80
7/1/2013	7093	92.20	93.90
7/1/2013	7186	92.10	93.50
7/1/2013	7280	92.60	93.30
7/1/2013	7374	91.80	94.50
7/2/2013	7469	92.00	94.20
7/2/2013	7562	90.10	94.90
7/2/2013	7655	90.00	95.20
7/3/2013	7749	90.00	95.30
7/3/2013	7843	89.50	95.20
7/3/2013	7937	89.30	95.20
7/3/2013	8030	90.70	95.00
7/5/2013	8217	91.00	94.40
7/5/2013	8311	90.90	93.90
7/5/2013	8404	91.20	93.30
7/5/2013	8498	91.60	92.50
7/7/2013	8780	91.70	93.20
7/7/2013	8965	90.90	93.30
7/8/2013	9246	90.90	94.70
7/8/2013	9340	91.90	93.90
7/8/2013	9433	90.40	94.10
7/9/2013	9527	90.60	94.40
7/9/2013	9621	89.30	93.70
7/9/2013	9715	88.60	93.40
7/9/2013	9809	90.10	94.00
7/9/2013	9902	90.00	92.90
7/10/2013	9996	91.20	93.00
7/10/2013	10090	91.50	93.70
7/10/2013	10183	91.30	93.40
7/11/2013	10276	91.70	95.40
7/11/2013	10370	91.50	95.50
7/11/2013	10464	91.50	95.90
7/11/2013	10558	91.00	95.90
7/11/2013	10651	89.90	95.80
7/11/2013	10754	90.10	95.20
7/11/2013	10847	89.80	95.00



COG Operating LLC

Eddy County, New Mexico (NAD 27 NME)

Tex Mack 11 Federal

#118H

OH/Job #1310722

Survey: Phoenix MWD Survey

Phoenix Final Survey Report

12 July, 2013



PHOENIX
TECHNOLOGY SERVICES



Phoenix Technology Services
Phoenix Final Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #118H
Project:	Eddy County, New Mexico (NAD 27 NME)	TVD Reference:	KB @ 3841.00usft (Silver Oak 3)
Site:	Tex Mack 11 Federal	MD Reference:	KB @ 3841.00usft (Silver Oak 3)
Well:	#118H	North Reference:	Grid
Wellbore:	OH/Job #1310722	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	GCR DB

Project:	Eddy County, New Mexico (NAD 27 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:	Tex Mack 11 Federal			
Site Position:		Northing:	671,073.20 usft	Latitude: 32° 50' 38.118184 N
From:	Map	Easting:	649,227.70 usft	Longitude: 103° 50' 50.801882 W
Position Uncertainty:	0.00 usft	Spot Radius:	13-3/16"	Grid Convergence: 0.28°

Well:	#118H			
Well Position:	+N/-S	0.00 usft	Northing:	671,073.20 usft
	+E/-W	0.00 usft	Easting:	649,227.70 usft
Position Uncertainty:	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,923.00 usft

Wellbore:	OH/Job #1310722				
Magnetics:	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	08/12/13	7.52	60.88	48,756

Design:	Surveys (Silver Oak 3)				
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	94.95	

Survey Program	Data 07/12/13				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	5,841.00	VES Gyro (OH/Job #1310722)	VES-ISCWSA-GYRO-3	Biaxial Semi-Cont. Gyro	
5,917.00	10,921.00	Phoenix MWD Survey (OH/Job #1310722)	MWD	MWD - Standard	

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Q/Log (°/100usft)
5,841.00	0.31	326.50	5,840.78	10.78	-18.03	-18.69	0.00
Tie-on to VES Gyro							
5,917.00	0.70	40.70	5,918.75	11.29	-17.84	-18.75	0.80
First Phoenix MWD Survey							
5,949.00	3.10	85.70	5,948.74	11.50	-16.85	-17.78	8.29
5,980.00	8.50	92.90	5,979.82	11.48	-14.28	-15.20	11.12
6,011.00	10.20	94.40	6,010.29	11.18	-9.77	-10.70	11.88
6,043.00	13.80	83.70	6,041.58	10.71	-3.11	-4.02	11.57
6,075.00	17.60	92.90	6,072.37	10.22	5.58	4.88	11.58
6,108.00	20.80	92.20	6,101.83	9.77	15.77	14.87	10.87
6,137.00	24.10	92.90	6,130.27	9.24	27.82	28.72	10.38



Phoenix Technology Services
Phoenix Final Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #116H
Project:	Eddy County, New Mexico (NAD 27 NME)	TVD Reference:	KB @ 3941.00usft (Silver Oak 3)
Site:	Tax Map 11 Federal	MD Reference:	KB @ 3941.00usft (Silver Oak 3)
Well:	#116H	North Reference:	Grid
Wellbore:	OH Job #1310722	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	GCR DB

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (ft/100usft)
8,166.00	27.10	84.40	8,158.22	6.37	40.88	40.11	8.80
8,199.00	29.70	88.00	8,185.49	7.03	55.68	54.85	8.74
8,230.00	32.60	97.30	8,212.02	5.18	71.59	70.87	8.80
8,282.00	35.80	98.70	8,238.48	2.85	89.39	88.63	10.30
8,293.00	38.60	99.70	8,263.17	-0.35	107.89	107.52	9.24
8,324.00	41.10	100.20	8,286.97	-3.78	127.48	127.31	8.13
8,355.00	43.50	101.00	8,309.90	-7.82	147.96	148.07	7.93
8,388.00	46.50	101.30	8,331.82	-11.68	169.48	169.86	9.70
8,418.00	48.60	101.40	8,353.20	-16.55	192.60	193.50	8.89
8,449.00	52.20	101.70	8,372.75	-21.37	216.38	217.40	8.42
8,480.00	55.30	101.70	8,391.08	-26.43	240.84	242.22	10.00
8,511.00	58.20	101.50	8,408.08	-31.85	266.23	267.97	9.37
8,542.00	61.20	101.20	8,423.72	-38.81	292.47	294.57	9.71
8,573.00	64.40	100.50	8,437.88	-42.10	319.55	321.89	10.52
8,604.00	67.60	100.00	8,450.49	-47.14	347.41	350.18	10.43
8,636.00	70.70	99.50	8,461.88	-52.20	376.66	379.88	9.80
8,667.00	73.40	99.50	8,471.43	-57.07	405.97	409.38	8.71
8,698.00	76.90	99.70	8,479.38	-62.06	435.51	439.24	11.31
8,729.00	80.20	100.10	8,485.53	-67.29	465.43	469.50	10.72
8,765.00	84.00	100.00	8,490.48	-73.51	500.54	505.01	10.56
8,781.00	85.90	99.80	8,491.89	-78.26	518.23	520.88	11.88
8,812.00	89.00	100.10	8,493.26	-81.84	546.73	551.73	10.02
8,843.00	90.50	99.80	8,493.40	-86.89	577.28	582.62	4.93
8,874.00	90.80	99.50	8,493.10	-92.19	607.62	613.51	1.02
8,905.00	90.30	99.80	8,492.66	-97.33	638.39	644.41	1.02
8,936.00	89.90	99.80	8,492.70	-112.20	730.19	737.15	0.86
7,093.00	92.20	93.80	8,490.95	-122.71	824.58	832.07	5.70
7,166.00	92.10	93.50	8,487.47	-128.70	917.30	924.98	0.44
7,280.00	92.60	93.30	8,483.81	-134.27	1,011.08	1,018.87	0.57
7,374.00	91.80	94.50	8,480.00	-140.66	1,104.77	1,112.76	1.53
7,469.00	92.00	94.20	8,476.65	-147.66	1,199.44	1,207.73	0.38
7,582.00	90.10	94.90	8,475.15	-155.24	1,292.13	1,300.70	2.16
7,655.00	90.00	95.20	8,475.07	-163.43	1,384.77	1,393.70	0.34
7,749.00	90.00	95.30	8,475.07	-172.03	1,478.37	1,487.70	0.11
7,843.00	89.50	95.20	8,475.46	-180.63	1,571.98	1,581.70	0.54
7,937.00	89.30	95.20	8,476.46	-189.15	1,665.58	1,675.69	0.21
8,030.00	90.70	95.00	8,476.46	-197.41	1,758.21	1,768.89	1.52
8,123.00	80.70	94.30	8,475.33	-204.95	1,850.90	1,861.86	0.75
8,217.00	91.00	94.40	8,473.93	-212.08	1,944.82	1,955.87	0.34
8,311.00	90.80	93.80	8,472.37	-218.88	2,038.38	2,049.64	0.84
8,404.00	91.20	93.20	8,470.67	-224.64	2,131.18	2,142.60	0.62
8,498.00	91.60	92.50	8,468.37	-229.31	2,225.02	2,238.51	0.68
8,592.00	92.70	92.80	8,464.85	-233.48	2,318.88	2,330.36	1.18
8,686.00	91.80	93.10	8,461.32	-238.18	2,412.67	2,424.23	1.29



Phoenix Technology Services
Phoenix Final Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #118H
Project:	Eddy County, New Mexico (NAD 27, NME)	TVD Reference:	KB @ 3941.00usft (Silver Oak 3)
Blks:	Tex Mack 111 Federal	MD Reference:	KB @ 3941.00usft (Silver Oak 3)
Well:	#118H	North Reference:	Grid
Wellbore:	OH/Job #1310722	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	GCR DB

Survey							
MD (usft)	Ino (")	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog ("/100usft)
6,780.00	81.70	93.20	6,456.61	-243.33	2,506.49	2,516.14	0.15
6,673.00	81.90	93.80	6,455.69	-249.00	2,599.27	2,611.08	0.68
6,665.00	80.90	93.30	6,453.44	-254.70	2,691.07	2,703.01	1.22
6,058.00	89.50	93.90	6,453.12	-260.53	2,783.68	2,795.98	1.64
9,152.00	80.40	94.80	6,453.20	-287.50	2,877.82	2,889.97	1.21
9,246.00	80.90	94.70	6,452.13	-275.12	2,971.31	2,983.96	0.54
9,340.00	81.90	93.80	6,449.84	-282.17	3,065.01	3,077.93	1.38
9,433.00	80.40	94.10	6,447.87	-288.65	3,157.76	3,170.89	1.83
9,527.00	80.80	94.40	6,447.15	-295.82	3,251.50	3,264.86	0.38
9,621.00	89.30	93.70	6,447.23	-302.26	3,345.26	3,358.87	1.57
9,715.00	86.80	93.40	6,446.98	-308.06	3,439.07	3,452.82	0.61
9,808.00	80.10	94.00	6,450.02	-314.14	3,532.86	3,546.79	1.72
9,902.00	80.00	92.90	6,449.94	-319.74	3,625.89	3,639.78	1.19
9,998.00	91.20	93.00	6,448.96	-324.58	3,719.56	3,733.69	1.28
10,088.00	91.50	93.70	6,448.79	-328.95	3,811.36	3,825.63	0.83
10,181.00	91.30	93.40	6,444.52	-335.71	3,904.17	3,918.58	0.38
10,278.00	91.70	95.40	6,442.03	-342.99	3,996.85	4,013.53	2.15
10,370.00	91.50	95.50	6,439.40	-351.92	4,092.39	4,107.49	0.24
10,464.00	91.50	95.90	6,439.84	-361.25	4,185.89	4,201.45	0.43
10,558.00	91.00	95.90	6,434.69	-370.91	4,279.37	4,295.42	0.53
10,651.00	69.80	95.80	6,434.16	-380.39	4,371.89	4,386.40	1.19
10,748.00	80.10	95.20	6,434.16	-389.49	4,466.45	4,483.40	0.67
10,839.00	89.80	95.00	6,434.24	-397.76	4,559.06	4,576.40	0.39
Last Phoenix MWD Survey							
10,921.00	69.80	95.00	6,434.53	-404.91	4,640.77	4,658.40	0.00
Projection to TD							

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,841.00	5,840.78	10.78	-18.03	Tie-on to VES Gyro
5,817.00	5,818.75	11.29	-17.84	First Phoenix MWD Survey
10,839.00	6,434.24	-397.76	4,559.06	Last Phoenix MWD Survey
10,921.00	6,434.53	-404.91	4,640.77	Projection to TD

Checked By: _____ Approved By: _____ Date: _____