

EOG Resources

Lea County, NM (Nad27)
Caballo 23 Federal
Caballo 23 Fed. 2H
Wellbore #1

HOBBS OCD

NOV 22 2011

RECEIVED

Survey: Phoenix MWD Surveys

EOG Resources

11 November, 2011



PHOENIX
TECHNOLOGY SERVICES

DEC 15 2011

30-025-40051

Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed 2H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Project	Lea County, NM (Nad27)		
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	Caballo 23 Federal		
Site Position:		Northing:	409,417.30 usft
From:	Map	Easting:	746,110.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 23.191 N
		Longitude:	103° 32' 18.108 W
		Grid Convergence:	0.42 °

Well	Caballo 23 Fed 2H		
Well Position	+N/-S	0.00 usft	Northing: 409,375.40 usft
	+E/-W	0.00 usft	Easting: 744,338.50 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: usft
			Latitude: 32° 7' 22.906 N
			Longitude: 103° 32' 38.711 W
			Ground Level: 3,349.99 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	09/08/11	7.54
			Dip Angle
			(°)
			60.09
			Field Strength
			(nT)
			48,536

Design	Wellbore #1		
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
			(°)
			179.57

Survey Program	Date 11/11/11		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	14,110.00	Phoenix MWD Surveys (Wellbore #1)	MWD
			Description
			MWD - Standard

Phoenix Technology Services
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Well:	Caballo 23 Fed. 2H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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	-3,379.99	0 00	0.00	0.00	0.00	0.00	409,375 40	744,338 50
100.00	0 71	295.50	-3,280.00	100 00	0.27	-0.56	-0.27	0.71	409,375.67	744,337.94
200.00	0 44	286 48	-3,180.00	199 99	0.64	-1.49	-0.65	0.28	409,376 04	744,337 01
300.00	0 50	286 67	-3,080.00	299 99	0.88	-2.27	-0.89	0.06	409,376 28	744,336 23
400.00	0 66	294 60	-2,980.01	399 98	1.24	-3.21	-1 27	0.18	409,376 64	744,335 29
500 00	0 70	287.89	-2,880.02	499.98	1.67	-4.32	-1.70	0.09	409,377 07	744,334.18
600.00	0 47	271.97	-2,780.02	599 97	1.87	-5.31	-1.91	0.28	409,377.27	744,333.19
700.00	0 48	286.16	-2,680.03	699.97	2.00	-6.12	-2.05	0.12	409,377 40	744,332 38
800 00	0 80	297.47	-2,580.03	799 96	2.44	-7.14	-2.49	0.34	409,377 84	744,331 36
900 00	0 65	301.34	-2,480.04	899 95	3.06	-8.25	-3.12	0.16	409,378 46	744,330 25
1,000 00	0 86	287.31	-2,380 05	999.95	3 58	-9 45	-3 65	0 28	409,378.98	744,329 05
1,100.00	0 86	284.49	-2,280 06	1,099.93	3 99	-10 89	-4 07	0 04	409,379.39	744,327 61
1,125.00	1 12	272 19	-2,255 06	1,124.93	4 04	-11 32	-4 13	1 34	409,379 44	744,327.18
Last Gyro Survey										
1,248.00	0 80	313.40	-2,132.08	1,247.91	4 68	-13.14	-4.78	0 60	409,380.08	744,325 36
First Phoenix MWD Survey										
1,431.00	0 70	324.10	-1,949.09	1,430.90	6 46	-14 73	-6.57	0 09	409,381.86	744,323.77
1,615.00	0 70	322.00	-1,765.11	1,614.88	8 26	-16 08	-8.38	0 01	409,383 66	744,322 42
1,806.00	1 30	306.50	-1,574.14	1,805.86	10 47	-18.54	-10.60	0 34	409,385 87	744,319 96
1,997.00	1 30	272.80	-1,383 18	1,996.81	11 86	-22 44	-12.03	0 39	409,387 26	744,316 06
2,188.00	0 60	228 90	-1,192 21	2,187.78	11.31	-25 36	-11.50	0 50	409,386.71	744,313.14
2,379 00	0 70	247 00	-1,001 22	2,378.77	10 20	-27 19	-10.40	0 12	409,385 60	744,311.31
2,570 00	0 40	311.40	-810 23	2,569.76	10 18	-28 76	-10.40	0 33	409,385.58	744,309 74
2,760 00	1 10	35.30	-620 24	2,759 75	12.11	-28 21	-12 32	0 59	409,387 51	744,310 29
2,951.00	0 60	47.10	-429 26	2,950 73	14.29	-26.41	-14.48	0 28	409,389.69	744,312 09
3,141.00	1 60	66.10	-239.30	3,140 69	16 04	-23 26	-16 21	0 55	409,391.44	744,315.24
3,332.00	0 90	69.00	-48.35	3,331 65	17 65	-19 42	-17 80	0 37	409,393 05	744,319.08

Phoenix Technology Services
EOG Resources



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Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cacti
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cacti
Well:	Caballo 23 Fed. 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)	
3,522.00	0.00	262.40	141.64	3,521.64	18.19	-18.03	-18.32	0.47	409,393.59	744,320.47	
3,712.00	1.10	226.70	331.63	3,711.63	16.94	-19.36	-17.08	0.58	409,392.34	744,319.14	
3,903.00	0.70	192.00	522.61	3,902.60	14.54	-20.93	-14.70	0.34	409,389.94	744,317.57	
4,094.00	0.90	205.20	713.59	4,093.58	12.04	-21.82	-12.21	0.14	409,387.44	744,316.68	
4,284.00	0.40	262.20	903.58	4,283.57	10.60	-23.11	-10.77	0.40	409,386.00	744,315.39	
4,475.00	1.90	117.10	1,094.55	4,474.54	9.07	-20.95	-9.23	1.17	409,384.47	744,317.55	
4,666.00	2.40	128.60	1,285.42	4,665.41	5.13	-15.00	-5.24	0.34	409,380.53	744,323.50	
4,857.00	1.20	106.40	1,476.32	4,856.31	2.07	-9.96	-2.15	0.72	409,377.47	744,328.54	
4,963.00	0.40	66.90	1,582.31	4,962.30	1.90	-8.56	-1.97	0.87	409,377.30	744,329.94	
5,080.00	0.40	119.00	1,699.31	5,079.30	1.87	-7.82	-1.92	0.30	409,377.27	744,330.68	
5,272.00	0.40	113.30	1,891.30	5,271.30	1.28	-6.62	-1.32	0.02	409,376.68	744,331.88	
5,463.00	0.40	85.30	2,082.30	5,462.29	1.07	-5.34	-1.11	0.10	409,376.47	744,333.16	
5,652.00	0.20	46.80	2,271.29	5,651.29	1.35	-4.45	-1.38	0.14	409,376.75	744,334.05	
5,844.00	0.40	33.70	2,463.29	5,843.29	2.13	-3.83	-2.16	0.11	409,377.53	744,334.67	
6,035.00	0.30	5.00	2,654.29	6,034.28	3.19	-3.42	-3.21	0.10	409,378.59	744,335.08	
6,226.00	0.40	355.20	2,845.29	6,225.28	4.35	-3.43	-4.37	0.06	409,379.75	744,335.07	
6,417.00	0.50	343.10	3,036.28	6,416.27	5.81	-3.73	-5.84	0.07	409,381.21	744,334.77	
6,607.00	0.50	4.60	3,226.27	6,606.27	7.43	-3.90	-7.46	0.10	409,382.83	744,334.60	
6,798.00	0.50	6.10	3,417.26	6,797.26	9.09	-3.75	-9.12	0.01	409,384.49	744,334.75	
6,989.00	0.30	9.10	3,608.26	6,988.25	10.41	-3.58	-10.44	0.11	409,385.81	744,334.92	
7,180.00	0.40	302.10	3,799.26	7,179.25	11.26	-4.06	-11.29	0.21	409,386.66	744,334.44	
7,370.00	0.50	282.80	3,989.25	7,369.24	11.80	-5.43	-11.84	0.09	409,387.20	744,333.07	
7,561.00	0.50	272.10	4,180.24	7,560.24	12.01	-7.08	-12.06	0.05	409,387.41	744,331.42	
7,752.00	0.60	233.60	4,371.24	7,751.23	11.45	-8.72	-11.51	0.20	409,386.85	744,329.78	
7,942.00	0.30	0.30	4,561.23	7,941.23	11.35	-9.52	-11.43	0.43	409,386.75	744,328.98	
8,133.00	0.60	6.50	4,752.23	8,132.22	12.85	-9.40	-12.92	0.16	409,388.25	744,329.10	
8,323.00	0.30	335.20	4,942.22	8,322.21	14.29	-9.50	-14.36	0.20	409,389.69	744,329.00	

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Well:	Caballo 23 Fed 2H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
8,514.00	0.40	237 10	5,133.22	8,513.21	14 38	-10.27	-14.46	0.28	409,389.78	744,328.23
8,705.00	0.50	239.90	5,324.21	8,704.21	13.60	-11.55	-13.69	0.05	409,389.00	744,326.95
8,869.00	0.60	211 50	5,488.21	8,868.20	12.51	-12.61	-12.60	0.17	409,387.91	744,325.89
8,921.00	0.70	209 20	5,540.20	8,920.20	12.00	-12.91	-12.10	0.20	409,387.40	744,325.59
8,953.00	2.30	183.50	5,572.19	8,952.18	11.19	-13.05	-11.29	5.30	409,386.59	744,325.45
8,985.00	5.50	179.20	5,604.11	8,984.11	9.01	-13.06	-9.11	10.03	409,384.41	744,325.44
9,016.00	8.70	179.60	5,634.87	9,014.86	5.18	-13.03	-5.28	10.32	409,380.58	744,325.47
9,048.00	12.00	181.50	5,666.35	9,046.34	-0.56	-13.10	0.47	10.37	409,374.84	744,325.40
9,080.00	15.30	182.60	5,697.44	9,077.43	-8.11	-13.38	8.01	10.34	409,367.29	744,325.12
9,112.00	18.90	181.70	5,728.02	9,108.01	-17.51	-13.72	17.41	11.28	409,357.89	744,324.78
9,144.00	22.40	180.10	5,757.96	9,137.95	-28.79	-13.88	28.69	11.08	409,346.61	744,324.62
9,176.00	25.80	179.60	5,787.16	9,167.16	-41.86	-13.85	41.75	10.64	409,333.54	744,324.65
9,207.00	29.50	179.30	5,814.62	9,194.61	-56.24	-13.71	56.14	11.94	409,319.16	744,324.79
9,239.00	32.70	178.70	5,842.02	9,222.01	-72.76	-13.41	72.66	10.05	409,302.64	744,325.09
9,271.00	35.70	178.20	5,868.48	9,248.47	-90.74	-12.92	90.64	9.42	409,284.66	744,325.58
9,303.00	38.80	178.20	5,893.95	9,273.94	-110.10	-12.32	110.00	9.69	409,265.30	744,326.18
9,335.00	41.80	177.90	5,918.39	9,298.38	-130.74	-11.61	130.65	8.77	409,244.66	744,326.89
9,367.00	44.40	177.70	5,941.79	9,321.78	-152.55	-10.77	152.46	8.76	409,222.85	744,327.73
9,399.00	48.30	177.70	5,963.87	9,343.87	-175.68	-9.84	175.60	12.19	409,199.72	744,328.66
9,430.00	53.10	178.10	5,983.50	9,363.49	-199.64	-8.97	199.57	15.52	409,175.76	744,329.53
9,462.00	58.20	178.00	6,001.55	9,381.54	-226.04	-8.07	225.97	15.94	409,149.36	744,330.43
9,493.00	63.90	178.20	6,016.55	9,396.54	-253.14	-7.17	253.08	18.40	409,122.26	744,331.33
9,529.00	70.30	178.00	6,030.55	9,410.55	-286.27	-6.07	286.21	17.79	409,089.13	744,332.43
9,560.00	76.10	178.50	6,039.51	9,419.50	-315.92	-5.17	315.87	18.77	409,059.48	744,333.33
9,591.00	79.40	178.50	6,046.08	9,428.08	-346.20	-4.37	346.15	10.65	409,029.20	744,334.13
9,623.00	82.50	178.60	6,051.12	9,431.11	-377.78	-3.57	377.75	9.69	408,997.62	744,334.93
9,655.00	83.10	178.30	6,055.13	9,435.12	-409.52	-2.72	409.49	2.09	408,965.88	744,335.78

Phoenix Technology Services
EOG Resources



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
9,687.00	84.80	179.00	6,058.50	9,438.49	-441.33	-1.97	441.30	5.74	408,934.07	744,336.53
9,718.00	86.30	178.30	6,060.91	9,440.90	-472.23	-1.24	472.20	5.34	408,903.17	744,337.26
9,782.00	88.80	178.50	6,063.64	9,443.63	-536.14	0.55	536.13	3.92	408,839.26	744,339.05
9,877.00	89.90	178.70	6,064.72	9,444.71	-631.10	2.87	631.11	1.18	408,744.30	744,341.37
9,972.00	90.20	178.30	6,064.64	9,444.63	-726.07	5.35	726.09	0.53	408,649.33	744,343.85
10,067.00	90.50	178.10	6,064.06	9,444.05	-821.02	8.34	821.06	0.38	408,554.38	744,346.84
10,163.00	91.00	178.30	6,062.80	9,442.79	-916.96	11.35	917.02	0.56	408,458.44	744,349.85
10,258.00	91.50	178.90	6,060.73	9,440.72	-1,011.91	13.67	1,011.99	0.82	408,363.49	744,352.17
10,354.00	90.30	178.60	6,059.22	9,439.21	-1,107.88	15.77	1,107.96	1.29	408,267.52	744,354.27
10,450.00	89.10	177.00	6,059.72	9,439.72	-1,203.80	19.45	1,203.91	2.08	408,171.60	744,357.95
10,545.00	88.80	175.90	6,061.46	9,441.46	-1,298.60	25.33	1,298.75	1.20	408,076.80	744,363.83
10,641.00	90.80	175.50	6,061.80	9,441.79	-1,394.32	32.53	1,394.53	2.12	407,981.08	744,371.03
10,736.00	91.60	178.20	6,059.81	9,439.80	-1,489.15	37.75	1,489.39	2.96	407,886.25	744,376.25
10,832.00	92.90	178.40	6,056.04	9,436.03	-1,585.03	40.60	1,585.29	1.37	407,790.37	744,379.10
10,927.00	92.40	181.20	6,051.65	9,431.64	-1,679.92	40.93	1,680.18	2.99	407,695.48	744,379.43
11,022.00	90.90	182.70	6,048.91	9,428.90	-1,774.82	37.70	1,775.05	2.23	407,600.58	744,376.20
11,118.00	90.30	179.60	6,047.90	9,427.90	-1,870.78	35.77	1,871.00	3.29	407,504.62	744,374.27
11,214.00	89.70	179.10	6,047.90	9,427.90	-1,966.78	36.86	1,967.00	0.81	407,408.62	744,375.36
11,309.00	90.70	181.00	6,047.57	9,427.57	-2,061.77	36.78	2,061.99	2.26	407,313.63	744,375.28
11,405.00	90.30	180.40	6,046.74	9,426.73	-2,157.76	35.60	2,157.97	0.75	407,217.64	744,374.10
11,501.00	89.40	183.20	6,046.99	9,426.98	-2,253.70	32.59	2,253.88	3.06	407,121.70	744,371.09
11,597.00	90.60	185.80	6,046.99	9,426.98	-2,349.39	25.06	2,349.52	2.98	407,026.01	744,363.56
11,693.00	90.10	183.40	6,046.40	9,426.39	-2,445.08	17.36	2,445.14	2.55	406,930.32	744,355.86
11,788.00	90.70	180.20	6,045.74	9,425.73	-2,540.01	14.37	2,540.05	3.43	406,835.39	744,352.87
11,884.00	89.50	178.20	6,045.57	9,425.56	-2,636.00	15.72	2,636.04	2.43	406,739.40	744,354.22
11,980.00	93.50	179.60	6,043.06	9,423.05	-2,731.93	17.56	2,731.98	4.41	406,643.47	744,356.06
12,075.00	91.40	179.30	6,039.00	9,418.99	-2,826.83	18.47	2,826.89	2.23	406,548.57	744,356.97

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed. 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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)
12,171.00	88.50	177.90	6,039.08	9,419.07	-2,922.79	20.81	2,922.86	3.35	406,452.61	744,359.31
12,267.00	90.10	178.00	6,040.25	9,420.25	-3,018.72	24.25	3,018.81	1.67	406,356.68	744,362.75
12,363.00	86.40	178.60	6,043.18	9,423.18	-3,114.61	27.09	3,114.73	3.90	406,260.79	744,365.59
12,458.00	87.80	180.10	6,047.99	9,427.98	-3,209.48	28.17	3,209.60	2.16	406,165.92	744,366.67
12,533.00	87.00	180.50	6,051.39	9,431.39	-3,284.40	27.78	3,284.52	1.19	406,091.00	744,366.28
12,649.00	87.70	180.60	6,056.76	9,436.75	-3,400.27	26.67	3,400.37	0.61	405,975.13	744,365.17
12,745.00	89.20	181.10	6,059.35	9,439.35	-3,496.22	25.24	3,496.31	1.65	405,879.18	744,363.74
12,840.00	89.00	181.10	6,060.84	9,440.84	-3,591.19	23.42	3,591.27	0.21	405,784.21	744,361.92
12,936.00	88.70	180.90	6,062.77	9,442.76	-3,687.16	21.74	3,687.22	0.38	405,688.24	744,360.24
13,031.00	88.80	182.20	6,064.84	9,444.84	-3,782.10	19.17	3,782.14	1.37	405,593.30	744,357.67
13,127.00	86.40	179.70	6,068.86	9,448.86	-3,877.99	17.58	3,878.01	3.61	405,497.41	744,356.08
13,222.00	88.10	178.90	6,073.42	9,453.42	-3,972.87	18.74	3,972.89	1.98	405,402.53	744,357.24
13,318.00	89.90	179.90	6,075.10	9,455.09	-4,068.84	19.75	4,068.87	2.14	405,306.56	744,358.25
13,413.00	89.80	179.80	6,075.35	9,455.34	-4,163.84	20.00	4,163.87	0.15	405,211.56	744,358.50
13,509.00	90.30	180.00	6,075.26	9,455.26	-4,259.84	20.16	4,259.87	0.56	405,115.56	744,358.66
13,604.00	90.40	180.80	6,074.68	9,454.68	-4,354.83	19.50	4,354.86	0.85	405,020.57	744,358.00
13,700.00	89.60	180.40	6,074.68	9,454.68	-4,450.83	18.49	4,450.84	0.93	404,924.57	744,356.99
13,796.00	88.90	179.00	6,075.94	9,455.93	-4,546.82	19.00	4,546.83	1.63	404,828.58	744,357.50
13,891.00	90.50	180.00	6,076.44	9,456.43	-4,641.81	19.83	4,641.82	1.99	404,733.59	744,358.33
13,987.00	90.00	179.80	6,076.02	9,456.01	-4,737.81	19.99	4,737.82	0.56	404,637.59	744,358.49
14,045.00	90.20	179.40	6,075.92	9,455.91	-4,795.80	20.40	4,795.82	0.77	404,579.60	744,358.90
Last Phoenix MWD Survey										
14,110.00	90.20	179.40	6,075.69	9,455.68	-4,860.80	21.08	4,860.82	0.00	404,514.60	744,359.58
Projection To TD										

Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3379.99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed 2H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,125.00	1,124.93	4.04	-11.32	Last Gyro Survey
1,248.00	1,247.91	4.68	-13.14	First Phoenix MWD Survey
14,045.00	9,455.91	-4,795.80	20.40	Last Phoenix MWD Survey
14,110.00	9,455.68	-4,860.80	21.08	Projection To TD

Checked By: _____ Approved By: _____ Date: _____