

Comet "22" Federal, Well No. 1
 Eddy County, New Mexico
 Sec. 22-16S-28E
 Quote No. 1121508181

SITE DETAILS

Comet "22" Federal #1

Site Centre Northing 692053 65
 Easting 591051 30

Ground Level 3608 00
 Positional Uncertainty 0 00
 Convergence 0 09

FIELD DETAILS

Eddy County, New Mexico

Geodetic System US State Plane Coordinate System 1983
 Ellipsoid GRS 1980
 Zone New Mexico, Eastern Zone
 Magnetic Model Wmm_2005

System Datum Mean Sea Level
 Local North Grid North



Azimuths to Grid North
 True North -0 09°
 Magnetic North 8 07°

Magnetic Field
 Strength 49215nT
 Dip Angle 60 76°
 Date 05/17/2009
 Model Wmm_2005

ANNOTATIONS

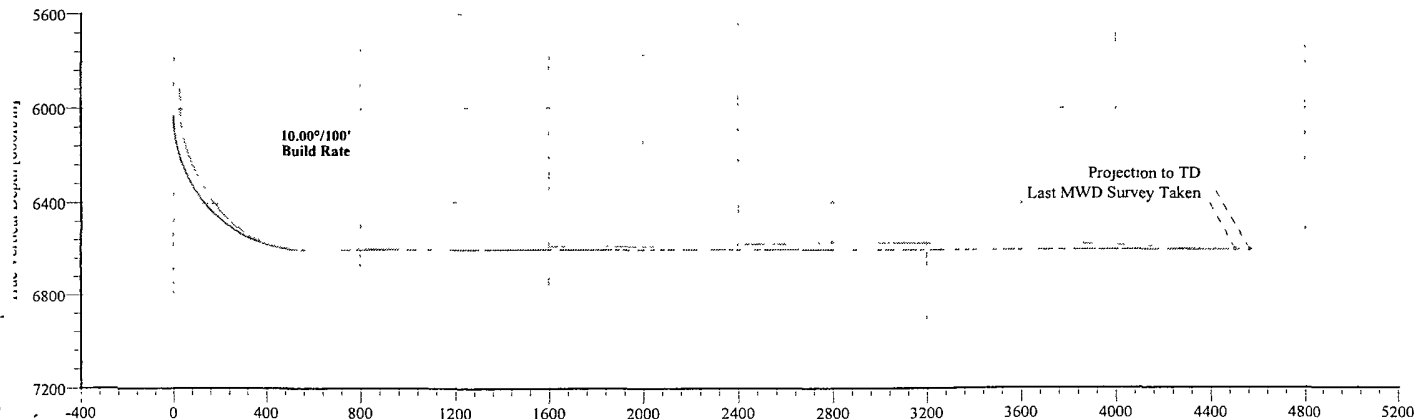
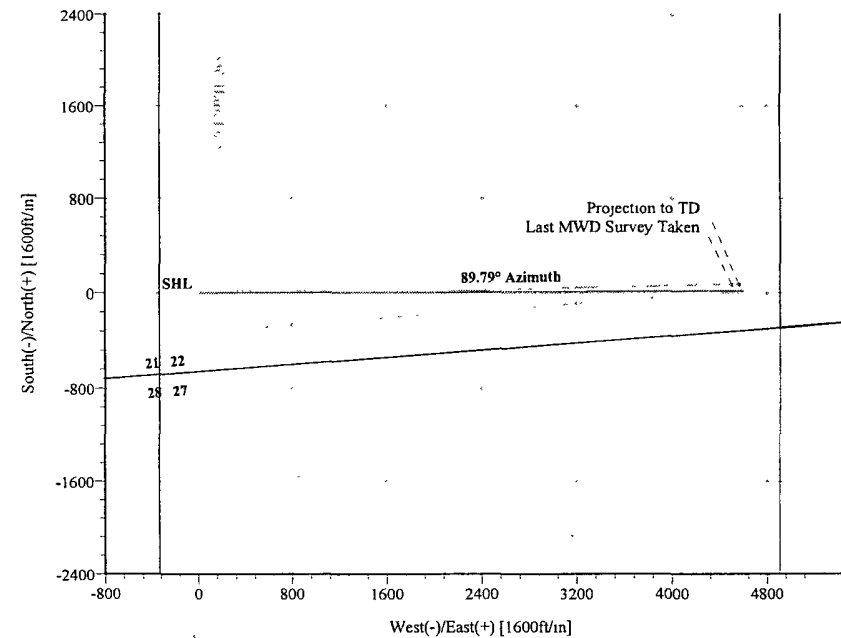
No	TVD	MD	Annotation
1	6601 81	10829 00	Last MWD Survey Taken
2	6603 20	10890 00	Projection to TD

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Lateral	6603 00	16 56	4585 58	692070 21	595636 87	32°54'08 600N	104°09'23 100W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10829 00	88 70	90 30	6601.81	69 52	4504 24	0 00	0 00	4504 46	
2	10890 00	88 70	90 30	6603 20	69 20	4565 22	0 00	0 00	4565 45	



Aim Directional Services, LLC

Survey Report

Company: Nearburg Producing Company	Date: 05/31/2009	Time: 10:53:00	Page: 1
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference:	Well: #1, Grid North	
Site: Comet "22" Federal #1	Vertical (TVD) Reference:	SITE 0.0	
Well: #1	Section (VS) Reference:	Well (0.00N,0.00E,89.79Azi)	
Wellpath: Aim MWD Surveys	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Eddy County, New Mexico

Map System: US State Plane Coordinate System 1983
 Geo Datum: GRS 1980
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 Geomagnetic Model: Wmm_2005

Site: Comet "22" Federal #1

Site Position:	Northing:	692053.65 ft	Latitude:	32 54	8.509 N
From: Map	Easting:	591051.30 ft	Longitude:	104 10	16.887 W
Position Uncertainty:		0.00 ft	North Reference:		Grid
Ground Level:		3608.00 ft	Grid Convergence:		0.09 deg

Well: #1

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	692053.65 ft	Latitude:	32 54	8.509 N
	+E/-W	0.00 ft	Easting:	591051.30 ft	Longitude:	104 10	16.887 W
Position Uncertainty:		0.00 ft					

Wellpath: Aim MWD Surveys

Drilled From: Scientific Gyro Surveys
 Tie-on Depth: 5550.00 ft
 Above System Datum: Mean Sea Level
 Declination: 8.16 deg
 Mag Dip Angle: 60.76 deg
 +E/-W ft Direction deg

Current Datum: SITE
 Magnetic Data: 05/17/2009
 Field Strength: 49215 nT
 Vertical Section: Depth From (TVD) ft
 Height 0.00 ft
 +N/-S ft

0.00 0.00 0.00 89.79

Survey: Aim MWD Surveys

Start Date: 05/17/2009

Company: Aim Directional Services, LLC
 Tool:

Engineer: Allison Reinert
 Tied-to: User Defined

Survey: Aim MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
5550.00	0.44	61.82	5549.88	4.89	21.50	21.52	0.00	0.00	0.00	Tie into Gyro Surveys
5685.00	0.80	75.20	5684.88	5.38	22.87	22.89	0.29	0.27	9.91	
5876.00	1.00	84.10	5875.85	5.89	25.82	25.84	0.13	0.10	4.66	
5972.00	1.00	78.30	5971.84	6.14	27.47	27.49	0.11	0.00	-6.04	
6004.00	1.00	79.20	6003.83	6.25	28.02	28.04	0.05	0.00	2.81	
6035.00	4.10	83.30	6034.80	6.43	29.38	29.41	10.01	10.00	13.23	
6067.00	7.10	86.60	6066.64	6.68	32.49	32.52	9.42	9.37	10.31	
6099.00	10.50	91.40	6098.26	6.73	37.38	37.41	10.86	10.62	15.00	
6131.00	14.50	91.20	6129.50	6.57	44.31	44.33	12.50	12.50	-0.62	
6163.00	17.30	91.00	6160.27	6.41	53.07	53.09	8.75	8.75	-0.62	
6195.00	19.90	91.30	6190.60	6.20	63.28	63.30	8.13	8.12	0.94	
6227.00	22.30	91.70	6220.45	5.90	74.79	74.81	7.51	7.50	1.25	
6260.00	25.10	91.00	6250.66	5.59	88.05	88.07	8.53	8.48	-2.12	
6291.00	28.00	89.30	6278.39	5.56	101.90	101.92	9.67	9.35	-5.48	
6323.00	30.50	88.00	6306.31	5.94	117.53	117.55	8.06	7.81	-4.06	
6355.00	31.70	87.50	6333.71	6.59	134.05	134.07	3.84	3.75	-1.56	
6386.00	32.70	87.50	6359.94	7.31	150.55	150.58	3.23	3.23	0.00	
6418.00	35.60	86.50	6386.42	8.25	168.49	168.52	9.23	9.06	-3.12	
6450.00	38.50	86.00	6411.96	9.52	187.72	187.76	9.11	9.06	-1.56	
6481.00	41.20	86.90	6435.75	10.74	207.55	207.59	8.91	8.71	2.90	
6513.00	44.00	88.00	6459.31	11.70	229.18	229.23	9.05	8.75	3.44	
6545.00	47.30	88.70	6481.67	12.36	252.05	252.10	10.43	10.31	2.19	
6577.00	51.30	88.70	6502.54	12.91	276.30	276.35	12.50	12.50	0.00	
6608.00	55.40	88.00	6521.04	13.63	301.16	301.21	13.35	13.23	-2.26	
6640.00	60.00	88.40	6538.13	14.47	328.19	328.24	14.41	14.37	1.25	

Aim Directional Services, LLC

Survey Report

Company: Nearburg Producing Company
 Field: Eddy County, New Mexico
 Site: Comet "22" Federal #1
 Well: #1
 Wellpath: Aim MWD Surveys

Date: 05/31/2009 Time: 10:53:00 Page: 2
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,89.79Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Aim MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6675.00	64.10	88.80	6554.53	15.23	359.09	359.14	11.76	11.71	1.14	
6706.00	67.60	89.10	6567.21	15.74	387.37	387.42	11.32	11.29	0.97	
6738.00	72.50	89.20	6578.13	16.19	417.43	417.49	15.32	15.31	0.31	
6770.00	77.70	88.90	6586.35	16.70	448.34	448.40	16.28	16.25	-0.94	
6801.00	81.80	88.50	6591.87	17.40	478.83	478.89	13.29	13.23	-1.29	
6834.00	83.60	88.60	6596.06	18.22	511.55	511.62	5.46	5.45	0.30	
6866.00	84.80	89.20	6599.30	18.84	543.38	543.45	4.19	3.75	1.87	
6897.00	87.00	90.00	6601.51	19.05	574.30	574.37	7.55	7.10	2.58	
6929.00	89.00	90.40	6602.63	18.94	606.28	606.34	6.37	6.25	1.25	
6961.00	88.70	89.80	6603.27	18.88	638.27	638.34	2.10	-0.94	-1.87	
6992.00	90.20	90.20	6603.57	18.88	669.27	669.34	5.01	4.84	1.29	
7024.00	92.40	90.90	6602.84	18.58	701.26	701.32	7.21	6.87	2.19	
7056.00	92.90	90.90	6601.36	18.07	733.22	733.28	1.56	1.56	0.00	
7088.00	92.30	91.00	6599.91	17.54	765.18	765.24	1.90	-1.87	0.31	
7119.00	92.00	91.20	6598.75	16.95	796.16	796.21	1.16	-0.97	0.65	
7151.00	92.10	91.10	6597.60	16.31	828.13	828.18	0.44	0.31	-0.31	
7183.00	92.00	91.00	6596.46	15.72	860.10	860.15	0.44	-0.31	-0.31	
7214.00	92.00	90.80	6595.38	15.24	891.08	891.13	0.64	0.00	-0.65	
7246.00	90.70	90.90	6594.62	14.76	923.07	923.11	4.07	-4.06	0.31	
7278.00	90.50	90.80	6594.29	14.29	955.06	955.11	0.70	-0.62	-0.31	
7309.00	90.70	91.00	6593.96	13.80	986.06	986.10	0.91	0.65	0.65	
7341.00	90.50	90.90	6593.63	13.27	1018.05	1018.09	0.70	-0.62	-0.31	
7373.00	90.50	91.00	6593.35	12.74	1050.04	1050.08	0.31	0.00	0.31	
7404.00	90.20	91.10	6593.16	12.17	1081.04	1081.08	1.02	-0.97	0.32	
7436.00	90.50	91.50	6592.96	11.44	1113.03	1113.06	1.56	0.94	1.25	
7468.00	90.40	91.50	6592.71	10.61	1145.02	1145.05	0.31	-0.31	0.00	
7500.00	90.30	91.20	6592.52	9.85	1177.01	1177.04	0.99	-0.31	-0.94	
7531.00	90.20	91.00	6592.38	9.26	1208.00	1208.03	0.72	-0.32	-0.65	
7563.00	90.00	91.00	6592.33	8.70	1240.00	1240.02	0.62	-0.62	0.00	
7595.00	90.10	91.00	6592.30	8.14	1271.99	1272.01	0.31	0.31	0.00	
7626.00	89.90	90.80	6592.30	7.65	1302.99	1303.01	0.91	-0.65	-0.65	
7658.00	89.80	90.80	6592.38	7.21	1334.98	1335.00	0.31	-0.31	0.00	
7690.00	89.60	90.50	6592.55	6.84	1366.98	1367.00	1.13	-0.62	-0.94	
7721.00	90.50	90.50	6592.52	6.57	1397.98	1398.00	2.90	2.90	0.00	
7753.00	90.90	90.50	6592.13	6.29	1429.98	1429.99	1.25	1.25	0.00	
7785.00	90.60	90.20	6591.71	6.10	1461.97	1461.99	1.33	-0.94	-0.94	
7817.00	90.50	90.20	6591.41	5.99	1493.97	1493.98	0.31	-0.31	0.00	
7848.00	90.70	90.30	6591.08	5.85	1524.97	1524.98	0.72	0.65	0.32	
7880.00	90.90	90.20	6590.63	5.71	1556.97	1556.98	0.70	0.62	-0.31	
7912.00	91.00	90.10	6590.10	5.63	1588.96	1588.97	0.44	0.31	-0.31	
7943.00	91.10	90.10	6589.54	5.57	1619.96	1619.97	0.32	0.32	0.00	
7975.00	91.10	90.20	6588.92	5.49	1651.95	1651.96	0.31	0.00	0.31	
8007.00	90.90	90.00	6588.36	5.43	1683.95	1683.95	0.88	-0.62	-0.62	
8038.00	90.50	89.80	6587.98	5.49	1714.94	1714.95	1.44	-1.29	-0.65	
8070.00	90.30	89.80	6587.76	5.60	1746.94	1746.95	0.62	-0.62	0.00	
8102.00	89.80	89.60	6587.73	5.77	1778.94	1778.95	1.68	-1.56	-0.62	
8134.00	89.40	89.00	6587.96	6.16	1810.94	1810.95	2.25	-1.25	-1.87	
8165.00	89.10	88.90	6588.36	6.73	1841.93	1841.94	1.02	-0.97	-0.32	
8197.00	89.00	88.80	6588.89	7.37	1873.92	1873.93	0.44	-0.31	-0.31	
8229.00	89.70	89.40	6589.26	7.87	1905.91	1905.93	2.88	2.19	1.87	
8260.00	90.30	89.10	6589.26	8.28	1936.91	1936.93	2.16	1.94	-0.97	
8292.00	90.10	89.20	6589.14	8.75	1968.91	1968.93	0.70	-0.62	0.31	
8324.00	90.10	88.90	6589.09	9.28	2000.90	2000.92	0.94	0.00	-0.94	
8355.00	90.50	88.60	6588.93	9.96	2031.89	2031.92	1.61	1.29	-0.97	
8387.00	91.60	88.60	6588.34	10.74	2063.88	2063.90	3.44	3.44	0.00	

Aim Directional Services, LLC

Survey Report

Company: Nearburg Producing Company
 Field: Eddy County, New Mexico
 Site: Comet "22" Federal #1
 Well: #1
 Wellpath: Aim MWD Surveys

Date: 05/31/2009 Time: 10:53:00 Page: 3
 Co-ordinate(NE) Reference: Well: #1, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,89.79Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Aim MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8419.00	92.20	88.60	6587.28	11.52	2095.85	2095.88	1.87	1.87	0.00	
8450.00	92.00	88.50	6586.14	12.31	2126.82	2126.85	0.72	-0.65	-0.32	
8482.00	91.80	88.30	6585.08	13.20	2158.79	2158.82	0.88	-0.62	-0.62	
8514.00	91.70	88.10	6584.10	14.20	2190.76	2190.80	0.70	-0.31	-0.62	
8546.00	92.10	88.00	6583.04	15.29	2222.72	2222.77	1.29	1.25	-0.31	
8577.00	91.10	88.10	6582.18	16.35	2253.69	2253.74	3.24	-3.23	0.32	
8609.00	91.00	88.00	6581.59	17.43	2285.67	2285.72	0.44	-0.31	-0.31	
8641.00	91.00	88.00	6581.03	18.55	2317.65	2317.70	0.00	0.00	0.00	
8672.00	91.00	88.00	6580.49	19.63	2348.62	2348.68	0.00	0.00	0.00	
8704.00	90.90	88.00	6579.96	20.75	2380.60	2380.66	0.31	-0.31	0.00	
8736.00	90.60	88.00	6579.54	21.87	2412.58	2412.64	0.94	-0.94	0.00	
8767.00	90.50	87.70	6579.25	23.03	2443.55	2443.62	1.02	-0.32	-0.97	
8799.00	90.40	87.40	6578.99	24.40	2475.52	2475.59	0.99	-0.31	-0.94	
8831.00	90.40	87.40	6578.77	25.85	2507.49	2507.57	0.00	0.00	0.00	
8862.00	90.40	87.50	6578.55	27.23	2538.46	2538.54	0.32	0.00	0.32	
8894.00	90.20	87.30	6578.39	28.68	2570.42	2570.51	0.88	-0.62	-0.62	
8926.00	91.10	88.10	6578.02	29.96	2602.39	2602.49	3.76	2.81	2.50	
8957.00	91.60	88.10	6577.29	30.99	2633.37	2633.47	1.61	1.61	0.00	
8989.00	91.70	88.20	6576.37	32.02	2665.34	2665.44	0.44	0.31	0.31	
9021.00	91.80	88.20	6575.39	33.03	2697.31	2697.41	0.31	0.31	0.00	
9053.00	91.90	88.80	6574.36	33.87	2729.28	2729.39	1.90	0.31	1.87	
9084.00	91.40	88.80	6573.47	34.51	2760.26	2760.37	1.61	-1.61	0.00	
9116.00	91.60	88.80	6572.63	35.18	2792.24	2792.35	0.62	0.62	0.00	
9148.00	90.90	89.30	6571.93	35.72	2824.23	2824.34	2.69	-2.19	1.56	
9179.00	90.50	89.30	6571.55	36.09	2855.23	2855.34	1.29	-1.29	0.00	
9211.00	90.10	88.90	6571.39	36.60	2887.22	2887.34	1.77	-1.25	-1.25	
9243.00	89.60	88.60	6571.47	37.29	2919.21	2919.33	1.82	-1.56	-0.94	
9275.00	89.10	88.50	6571.83	38.10	2951.20	2951.32	1.59	-1.56	-0.31	
9306.00	88.90	88.50	6572.37	38.92	2982.19	2982.31	0.65	-0.65	0.00	
9338.00	89.40	88.50	6572.85	39.75	3014.17	3014.30	1.56	1.56	0.00	
9370.00	89.40	88.50	6573.18	40.59	3046.16	3046.29	0.00	0.00	0.00	
9402.00	89.40	88.40	6573.52	41.46	3078.14	3078.28	0.31	0.00	-0.31	
9433.00	89.80	88.80	6573.74	42.21	3109.13	3109.27	1.82	1.29	1.29	
9465.00	89.90	89.00	6573.82	42.83	3141.13	3141.26	0.70	0.31	0.62	
9497.00	89.90	89.10	6573.88	43.36	3173.12	3173.26	0.31	0.00	0.31	
9529.00	89.80	88.90	6573.96	43.92	3205.12	3205.26	0.70	-0.31	-0.62	
9560.00	89.40	88.90	6574.18	44.51	3236.11	3236.25	1.29	-1.29	0.00	
9592.00	89.20	88.50	6574.57	45.24	3268.10	3268.25	1.40	-0.62	-1.25	
9624.00	89.70	89.40	6574.87	45.82	3300.09	3300.24	3.22	1.56	2.81	
9655.00	89.50	89.30	6575.09	46.18	3331.09	3331.24	0.72	-0.65	-0.32	
9687.00	89.10	88.80	6575.48	46.71	3363.09	3363.23	2.00	-1.25	-1.56	
9719.00	89.00	88.80	6576.01	47.38	3395.07	3395.22	0.31	-0.31	0.00	
9750.00	88.90	88.80	6576.58	48.03	3426.06	3426.21	0.32	-0.32	0.00	
9782.00	89.80	89.00	6576.94	48.64	3458.05	3458.21	2.88	2.81	0.62	
9814.00	90.50	89.20	6576.86	49.14	3490.05	3490.21	2.28	2.19	0.62	
9846.00	90.00	88.80	6576.72	49.70	3522.04	3522.20	2.00	-1.56	-1.25	
9877.00	90.30	89.10	6576.64	50.27	3553.04	3553.20	1.37	0.97	0.97	
9909.00	90.30	89.20	6576.47	50.74	3585.03	3585.20	0.31	0.00	0.31	
9941.00	90.10	88.90	6576.36	51.27	3617.03	3617.19	1.13	-0.62	-0.94	
9973.00	90.10	88.90	6576.30	51.89	3649.02	3649.19	0.00	0.00	0.00	
10004.00	90.30	89.20	6576.20	52.40	3680.02	3680.19	1.16	0.65	0.97	
10036.00	90.20	89.20	6576.06	52.85	3712.02	3712.18	0.31	-0.31	0.00	
10068.00	90.00	89.00	6576.00	53.35	3744.01	3744.18	0.88	-0.62	-0.62	
10099.00	89.90	89.00	6576.03	53.89	3775.01	3775.18	0.32	-0.32	0.00	

Aim Directional Services, LLC

Survey Report

Company: Nearburg Producing Company
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 Site: Comet "22" Federal #1
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Date: 05/31/2009 Time: 10:53:00 Page: 4
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Survey: Aim MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10131.00	89.00	88.50	6576.33	54.59	3807.00	3807.17	3.22	-2.81	-1.56	
10163.00	88.40	88.20	6577.06	55.51	3838.98	3839.15	2.10	-1.87	-0.94	
10195.00	88.00	88.30	6578.07	56.49	3870.95	3871.13	1.29	-1.25	0.31	
10226.00	87.80	88.20	6579.20	57.44	3901.91	3902.09	0.72	-0.65	-0.32	
10258.00	87.70	88.00	6580.46	58.50	3933.87	3934.06	0.70	-0.31	-0.62	
10290.00	87.60	88.10	6581.77	59.58	3965.82	3966.01	0.44	-0.31	0.31	
10321.00	87.60	88.00	6583.07	60.64	3996.78	3996.97	0.32	0.00	-0.32	
10353.00	87.70	88.30	6584.38	61.67	4028.73	4028.93	0.99	0.31	0.94	
10385.00	87.60	88.20	6585.69	62.65	4060.69	4060.89	0.44	-0.31	-0.31	
10416.00	87.30	88.10	6587.07	63.65	4091.64	4091.85	1.02	-0.97	-0.32	
10448.00	87.30	87.80	6588.58	64.79	4123.59	4123.80	0.94	0.00	-0.94	
10480.00	86.90	87.60	6590.20	66.07	4155.52	4155.74	1.40	-1.25	-0.62	
10512.00	87.00	88.00	6591.90	67.30	4187.45	4187.67	1.29	0.31	1.25	
10543.00	87.20	88.00	6593.47	68.38	4218.39	4218.62	0.65	0.65	0.00	
10575.00	87.80	88.50	6594.86	69.35	4250.35	4250.57	2.44	1.87	1.56	
10607.00	87.90	88.90	6596.06	70.08	4282.32	4282.55	1.29	0.31	1.25	
10638.00	88.20	89.90	6597.12	70.40	4313.30	4313.53	3.37	0.97	3.23	
10670.00	88.40	90.20	6598.07	70.38	4345.28	4345.51	1.13	0.62	0.94	
10702.00	88.60	90.20	6598.91	70.27	4377.27	4377.50	0.62	0.62	0.00	
10733.00	88.70	90.30	6599.64	70.13	4408.26	4408.49	0.46	0.32	0.32	
10765.00	88.70	90.40	6600.36	69.93	4440.25	4440.48	0.31	0.00	0.31	
10797.00	88.70	90.40	6601.09	69.71	4472.25	4472.47	0.00	0.00	0.00	
10829.00	88.70	90.30	6601.81	69.52	4504.24	4504.46	0.31	0.00	-0.31	Last MWD Survey Taken
10890.00	88.70	90.30	6603.20	69.20	4565.22	4565.44	0.00	0.00	0.00	Projection to TD

Annotation

729.20.5 + 390E

MD ft	TVD ft	
5550.00	5549.88	Tie into Gyro Surveys
10829.00	6601.81	Last MWD Survey Taken
10890.00	6603.20	Projection to TD