

BOPCO, L.P.

Poker Lake Unit 413H
Eddy Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	7560.00	0.54	168.12	7559.02	29.08	-23.52	0.00	0.00	-37.18	
2	7564.29	-0.54	168.12	7563.31	29.04	-23.51	0.00	0.00	-37.15	
3	8060.52	60.00	135.22	7973.03	-141.40	143.64	12.00	-33.07	201.56	
4	8210.52	60.00	135.22	8048.03	-233.61	235.14	0.00	0.00	331.46	
5	8460.50	90.00	135.23	8112.00	-403.08	403.27	12.00	0.03	570.17	
6	8534.25	90.00	135.23	8112.00	-455.44	455.20	0.00	0.00	643.92	T1
7	8560.49	90.00	135.23	8112.00	-474.07	473.68	0.00	0.00	670.16	
8	8569.98	90.18	135.01	8111.99	-480.80	480.38	3.00	-51.36	679.65	
9	10847.78	90.18	135.01	8105.00	-2091.79	2090.66	0.00	0.00	2957.42	T2
10	10886.85	89.00	135.02	8105.28	-2119.43	2118.28	3.00	179.86	2996.49	
11	12883.26	89.00	135.02	8140.00	-3531.27	3529.36	0.00	0.00	4992.59	T3
12	12889.82	88.81	135.02	8140.13	-3535.91	3534.00	3.00	179.99	4999.15	
13	15524.81	88.81	135.02	8195.00	-5399.23	5396.31	0.00	0.00	7633.56	PBHL

FIELD DETAILS

Eddy County, NM (Nad 27)
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

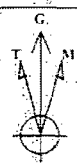
Poker Lake Unit 413H
Site Centre Northing: 432116.44
Easting: 670046.17
Ground Level: 3465.00
Positional Uncertainty: 0.00
Convergence: 0.29

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 4113H	0.00	0.00	432116.44	670046.17	32°11'12.519N	103°47'01.227W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
T2	8105.00	-2091.79	2090.66	430014.65	672136.83	Point
T1	8112.00	-455.44	455.20	431661.00	670501.37	Point
T3	8140.00	-3531.27	3529.36	428585.17	673575.53	Point
PBHL	8195.00	-5399.23	5396.31	426717.21	675442.48	Point



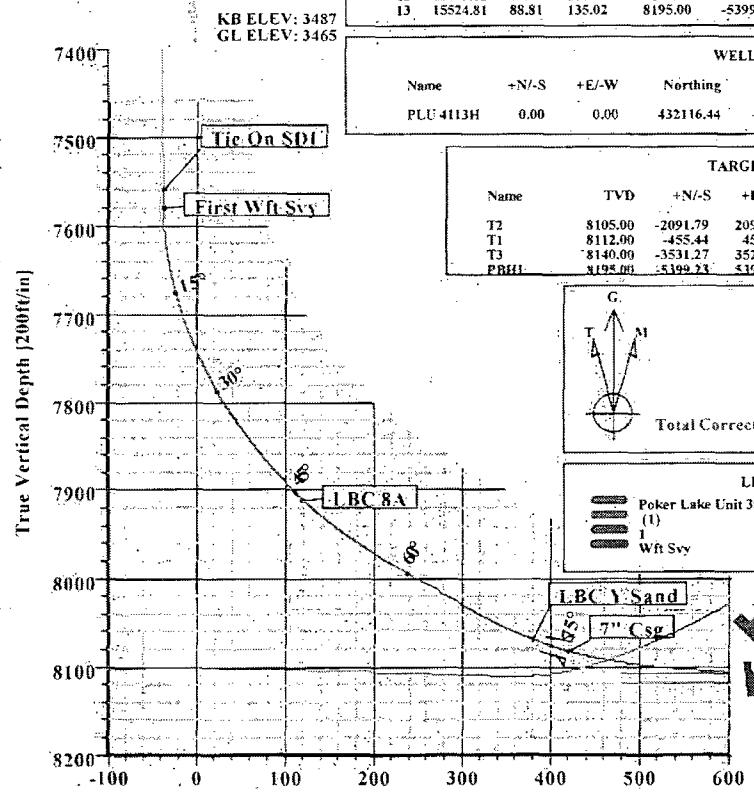
Azimuths to Grid North
True North: -0.29°
Magnetic North: 7.28°
Magnetic Field
Strength: 48503nT
Dip Angle: 60.09°
Total Correction to Grid North: 7.28°
Model: IGRF2010

LEGEND

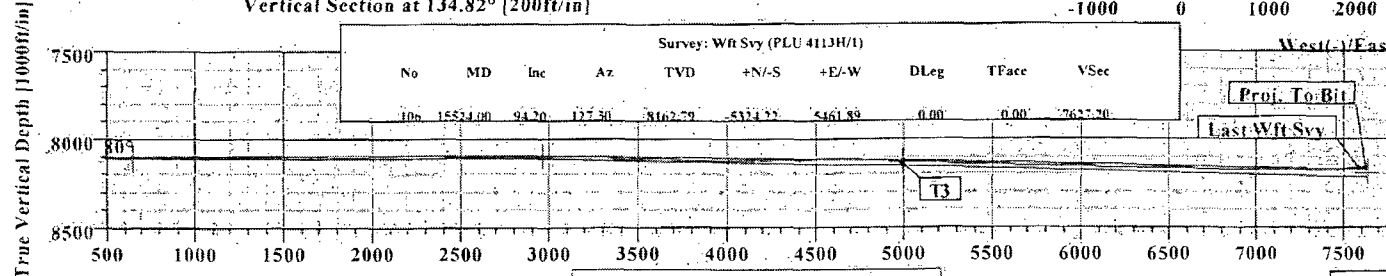
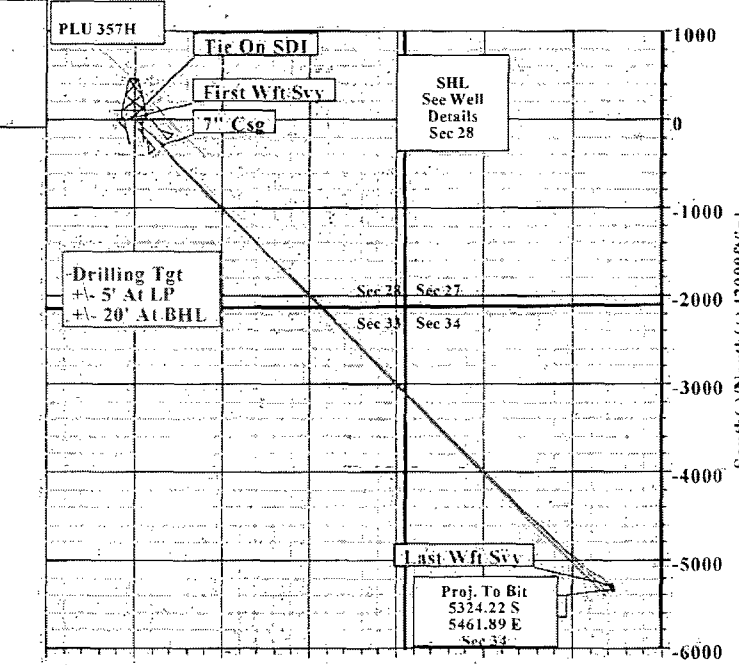
- Poker Lake Unit 357H (1)
- (1)
- Wft Svy

Weatherford

Drilling Tgt
± 5' At LP
± 20' At BHL



Vertical Section at 134.82° [200ft/in]



Vertical Section at 134.82° [1000ft/in]

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	7911.00	7956.35	LBC 8A
2	8069.00	8262.23	LBC Y Sand

Survey: Wft Svy (PLU 4113H/I)

Created By: Russell W. Joyner

Date: 7/3/2012

30-015-39794

Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 413H Well: PLU 413H Wellpath: 1				Date: 7/3/2012 Time: 05:59:26 Page: 1 Co-ordinate(NE) Reference: Well: PLU 4113H, Grid North Vertical (TVD) Reference: SITE 3487.0 Section (VS) Reference: Well (0.00N 0.00E, 134.82Azi) Survey Calculation Method: Minimum Curvature Db: Sybase						
Survey: Wft Svy		Start Date: 6/11/2012								
Company: Weatherford		Engineer: Russell W. Joyner								
Tool: MWD,MWD - Standard		Tied-to: User Defined								
Field: Eddy County, NM (Nad 27)										
Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level			Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010							
Site: Poker Lake Unit 413H										
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3465.00 ft		Northing: 432116.44 ft Easting: 670046.17 ft		Latitude: 32 11 12.519 N Longitude: 103 47 1.227 W North Reference: Grid Grid Convergence: 0.29 deg						
Well: PLU 4113H		Slot Name:								
Well Position: +N/-S 0.00 ft Position Uncertainty: 0.00 ft		Northing: 432116.44 ft Easting: 670046.17 ft		Latitude: 32 11 12.519 N Longitude: 103 47 1.227 W						
Wellpath: 1		Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.57 deg Mag Dip Angle: 60.09 deg								
Current Datum: SITE Magnetic Data: 5/18/2012 Field Strength: 48503 nT Vertical Section: Depth From (TVD) ft		Height 3487.00 ft +N/-S ft +E/-W ft Direction deg								
0.00		0.00		134.82						
Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
990.00	2.44	350.28	989.29	25.06	-16.68	0.00	-29.49	432141.50	670029.49	Csg
7560.00	0.54	168.12	7559.02	29.08	-23.52	0.05	-37.18	432145.52	670022.65	Tie On SDI
7581.00	1.54	155.23	7580.02	28.72	-23.38	4.86	-36.83	432145.16	670022.79	First Wft Svy
7613.00	5.40	145.16	7611.95	27.10	-22.34	12.17	-34.95	432143.54	670023.83	
7644.00	10.63	142.19	7642.64	23.64	-19.75	16.92	-30.67	432140.08	670026.42	
7676.00	14.74	140.50	7673.85	18.16	-15.35	12.89	-23.69	432134.60	670030.82	
7708.00	19.20	139.51	7704.45	11.02	-9.34	13.97	-14.39	432127.46	670036.83	
7739.00	22.26	138.90	7733.44	2.71	-2.17	9.90	-3.45	432119.15	670044.00	
7770.00	26.11	137.91	7761.71	-6.78	6.26	12.49	9.22	432109.66	670052.43	
7801.00	30.11	136.28	7789.05	-17.46	16.21	13.14	23.81	432098.98	670062.38	
7833.00	33.72	135.67	7816.21	-29.62	27.97	11.33	40.72	432086.82	670074.14	
7864.00	36.48	136.26	7841.57	-42.44	40.36	8.97	58.54	432074.00	670086.53	
7896.00	39.51	137.11	7866.79	-56.77	53.87	9.61	78.23	432059.67	670100.04	
7927.00	42.85	136.68	7890.12	-71.67	67.82	10.81	98.62	432044.77	670113.99	
7959.00	46.75	134.63	7912.82	-87.78	83.58	13.00	121.16	432028.66	670129.75	
7990.00	50.86	132.39	7933.23	-103.83	100.50	14.33	144.47	432012.61	670146.67	
8021.00	54.85	131.25	7951.95	-120.29	118.92	13.20	169.14	431996.15	670165.09	
8053.00	58.72	130.97	7969.47	-137.89	139.09	12.12	195.86	431978.55	670185.26	
8084.00	59.85	131.57	7985.31	-155.47	159.12	4.01	222.45	431960.97	670205.29	
8115.00	60.10	131.86	8000.8							

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 413H Well: PLU 413H Wellpath: 1	Date: 7/3/2012 Time: 05:59:26 Page: 2 Co-ordinate(NE) Reference: Well: PLU 4113H, Grid North Vertical (TVD) Reference: SITE 3487.0 Section (VS) Reference: Well (0.00N,0.00E,134.82Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8307.00	74.84	139.89	8082.80	-293.80	302.88	14.92	421.94	431822.64	670349.05	7" Csg
8334.00	78.24	142.11	8089.09	-314.21	319.40	14.92	448.04	431802.23	670365.57	
8365.00	80.45	139.40	8094.82	-337.80	338.67	11.16	478.33	431778.64	670384.84	
8397.00	83.27	138.80	8099.35	-361.74	359.41	9.01	509.92	431754.70	670405.58	
8428.00	85.59	138.54	8102.36	-384.91	379.78	7.53	540.70	431731.53	670425.95	
8460.00	86.08	138.73	8104.68	-408.86	400.87	1.64	572.55	431707.58	670447.04	
8492.00	87.06	139.19	8106.60	-432.95	421.85	3.38	604.41	431683.49	670468.02	
8523.00	88.88	139.74	8107.69	-456.50	441.98	6.13	635.28	431659.94	670488.15	
8555.00	89.93	140.12	8108.03	-480.98	462.58	3.49	667.15	431635.46	670508.75	
8629.00	88.89	136.73	8108.79	-536.33	511.67	4.79	740.99	431580.11	670557.84	
8724.00	87.34	135.62	8111.91	-604.83	577.42	2.01	835.91	431511.61	670623.59	
8818.00	88.95	134.87	8114.96	-671.54	643.56	1.89	929.85	431444.90	670689.73	
8913.00	90.49	135.45	8115.42	-738.90	710.55	1.73	1024.85	431377.54	670756.72	
9007.00	91.73	135.63	8113.60	-805.98	776.37	1.33	1118.82	431310.46	670822.54	
9101.00	92.40	134.83	8110.21	-872.67	842.53	1.11	1212.76	431243.77	670888.70	
9196.00	90.12	134.70	8108.12	-939.55	909.96	2.40	1307.73	431176.89	670956.13	
9291.00	89.14	133.64	8108.74	-1005.74	978.10	1.52	1402.72	431110.70	671024.27	
9387.00	89.03	133.16	8110.27	-1071.69	1047.84	0.51	1498.67	431044.75	671094.01	
9482.00	89.81	135.07	8111.23	-1137.81	1116.04	2.17	1593.66	430978.63	671162.21	
9577.00	89.69	134.41	8111.65	-1204.68	1183.52	0.71	1688.65	430911.76	671229.69	
9673.00	90.49	134.61	8111.50	-1271.98	1251.98	0.86	1784.65	430844.46	671298.15	
9768.00	90.00	134.99	8111.09	-1338.92	1319.38	0.65	1879.65	430777.52	671365.55	
9862.00	89.51	133.10	8111.49	-1404.27	1386.95	2.08	1973.64	430712.17	671433.12	
9956.00	89.51	132.06	8112.30	-1467.87	1456.16	1.11	2067.56	430648.57	671502.33	
10051.00	91.61	133.65	8111.37	-1532.47	1525.79	2.77	2162.49	430583.97	671571.96	
10145.00	89.51	130.16	8110.45	-1595.24	1595.73	4.33	2256.35	430521.20	671641.90	
10239.00	90.56	131.19	8110.39	-1656.50	1667.02	1.56	2350.10	430459.94	671713.19	
10334.00	92.34	134.32	8107.99	-1720.96	1736.74	3.79	2444.99	430395.48	671782.91	
10429.00	92.53	133.25	8103.95	-1786.64	1805.27	1.14	2539.89	430329.80	671851.44	
10524.00	90.55	133.70	8101.40	-1851.97	1874.18	2.14	2634.82	430264.47	671920.35	
10618.00	90.62	135.01	8100.44	-1917.68	1941.38	1.40	2728.81	430198.76	671987.55	
10713.00	90.92	136.24	8099.16	-1985.58	2007.81	1.33	2823.79	430130.86	672053.98	
10807.00	87.47	133.95	8100.48	-2052.14	2074.15	4.40	2917.76	430064.30	672120.32	
10902.00	90.93	138.49	8101.81	-2120.69	2139.85	6.01	3012.68	429995.75	672186.02	
10996.00	89.88	138.34	8101.14	-2191.00	2202.23	1.13	3106.50	429925.44	672248.40	
11091.00	88.21	135.50	8102.73	-2260.37	2267.10	3.47	3201.41	429856.07	672313.27	
11186.00	87.84	134.83	8106.00	-2327.70	2334.04	0.81	3296.35	429788.74	672380.21	
11280.00	87.29	134.60	8109.99	-2393.77	2400.78	0.63	3390.26	429722.67	672446.95	
11374.00	87.27	134.04	8114.46	-2459.37	2467.96	0.60	3484.15	429657.07	672514.13	
11469.00	89.44	137.36	8117.18	-2527.32	2534.26	4.17	3579.08	429589.12	672580.43	
11563.00	88.34	136.66	8119.00	-2596.07	2598.35	1.39	3672.99	429520.37	672644.52	
11657.00	89.08	138.56	8121.12	-2665.47	2661.70	2.17	3766.85	429450.97	672707.87	
11752.00	89.75	138.29	8122.09	-2736.54	2724.74	0.76	3861.66	429379.90	672770.91	
11845.00	88.83	136.19	8123.24	-2804.81	2787.87	2.47	3954.56	429311.63	672834.04	
11939.00	89.81	136.01	8124.36	-2872.54	2853.04	1.06	4048.53	429243.90	672899.21	
12034.00	90.31	135.58	8124.26	-2940.64	2919.28	0.69	4143.52	429175.80	672965.45	
12129.00	90.49	133.74	8123.60	-3007.41	2986.85	1.95	4238.51	429109.03	673033.02	
12223.00	91.17	133.85	8122.23	-3072.45	3054.69	0.73	4332.49	429043.99	673100.86	
12318.00	91.54	133.93	8119.99	-3138.30	3123.14	0.40	4427.45	428978.14	673169.31	
12412.00	91.11	133.34	8117.81	-3203.15	3191.15	0.78	4521.40	428913.29	673237.32	
12507.00	89.88	133.24	8116.99	-3268.28	3260.30	1.30	4616.36	428848.16	673306.47	
12601.00	88.59	133.51	8118.25	-3332.83	3328.61	1.40	4710.32	428783.61	673374.78	

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P.

Field: Eddy County, NM (Nad 27)

Site: Poker Lake Unit 413H

Well: PLU 413H

Wellpath: 1

Date: 7/3/2012

Time: 05:59:26

Page: 3

Co-ordinate(NE) Reference: Well: PLU 4113H; Grid North

Vertical (TVD) Reference: SITE 3487.0

Section (VS) Reference: Well (0.00N,0.00E,134.82Azi)

Survey Calculation Method: Minimum Curvature

Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
12694.00	88.77	134.10	8120.39	-3397.19	3395.71	0.66	4803.28	428719.25	673441.88	
12789.00	89.20	134.71	8122.07	-3463.65	3463.57	0.79	4898.26	428652.79	673509.74	
12882.00	85.86	135.10	8126.08	-3529.23	3529.37	3.62	4991.16	428587.21	673575.54	
12977.00	85.68	135.16	8133.09	-3596.38	3596.21	0.20	5085.90	428520.06	673642.38	
13072.00	87.28	135.63	8138.92	-3663.88	3662.79	1.76	5180.72	428452.56	673708.96	
13167.00	89.45	139.17	8141.63	-3733.77	3727.06	4.37	5275.56	428382.67	673773.23	
13262.00	89.14	136.94	8142.80	-3804.42	3790.55	2.37	5370.40	428312.02	673836.72	
13357.00	88.09	136.18	8145.10	-3873.38	3855.85	1.36	5465.32	428243.06	673902.02	
13452.00	87.22	136.00	8148.98	-3941.76	3921.68	0.94	5560.22	428174.68	673967.85	
13547.00	87.47	135.10	8153.38	-4009.50	3988.13	0.98	5655.11	428106.94	674034.30	
13642.00	88.27	134.62	8156.92	-4076.47	4055.42	0.98	5750.04	428039.97	674101.59	
13736.00	89.75	135.51	8158.54	-4143.00	4121.80	1.84	5844.02	427973.44	674167.97	
13831.00	89.20	134.16	8159.41	-4209.98	4189.17	1.53	5939.02	427906.46	674235.34	
13926.00	89.44	133.10	8160.54	-4275.52	4257.92	1.14	6033.99	427840.92	674304.09	
14021.00	89.01	132.37	8161.82	-4339.98	4327.69	0.89	6128.91	427776.46	674373.86	
14115.00	88.95	132.45	8163.50	-4403.37	4397.09	0.11	6222.82	427713.07	674443.26	
14211.00	88.71	131.85	8165.46	-4467.78	4468.24	0.67	6318.69	427648.66	674514.41	
14305.00	88.59	131.57	8167.67	-4530.30	4538.40	0.32	6412.53	427586.14	674584.57	
14400.00	88.95	130.89	8169.71	-4592.90	4609.83	0.81	6507.32	427523.54	674656.00	
14495.00	89.32	131.85	8171.14	-4655.68	4681.11	1.08	6602.13	427460.76	674727.28	
14590.00	88.65	131.33	8172.83	-4718.73	4752.15	0.89	6696.97	427397.71	674798.32	
14685.00	89.38	132.07	8174.46	-4781.92	4823.07	1.09	6791.81	427334.52	674869.24	
14780.00	89.51	133.25	8175.38	-4846.29	4892.93	1.25	6886.74	427270.15	674939.10	
14876.00	89.74	133.33	8176.01	-4912.12	4962.80	0.25	6982.70	427204.32	675008.97	
14971.00	89.69	132.52	8176.48	-4976.81	5032.37	0.85	7077.65	427139.63	675078.54	
15066.00	89.69	130.53	8177.00	-5039.79	5103.49	2.09	7172.48	427076.65	675149.66	
15161.00	89.94	129.49	8177.30	-5100.86	5176.25	1.13	7267.15	427015.58	675222.42	
15256.00	91.30	128.19	8176.27	-5160.44	5250.24	1.98	7361.62	426956.00	675296.41	
15350.00	92.35	127.93	8173.28	-5218.36	5324.21	1.15	7454.92	426898.08	675370.38	
15446.00	93.58	127.52	8168.32	-5277.02	5400.04	1.35	7550.05	426839.42	675446.21	
15481.00	94.20	127.30	8165.94	-5298.23	5427.77	1.88	7584.68	426818.21	675473.94	Last Wft Svy
15524.00	94.20	127.30	8162.79	-5324.22	5461.89	0.00	7627.20	426792.22	675508.06	Proj. To Bit

Annotation

MD ft	TVD ft	
7560.00	7559.02	Tie On SDI
7581.00	7580.02	First Wft Svy
15481.00	8165.94	Last Wft Svy
15524.00	8162.79	Proj. To Bit



Weatherford

SURVEY REPORT

Report Date: 7/3/2012

Customer: Bopco

Job Name: 4026481

Well Name: Poker Lake Unit 413 H

Field: Poker Lake South

Rig: Unit # 4

Rig Loc: Eddy Co

Survey Calculation Method: Minimum Curvature

Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	134.82 deg	48500 nT	60.09 deg	7.57 deg	0.29 deg	7.28 deg
Survey Tie-On	Depth	INC	AZ	TVD	NS	EW
	7560.00 ft	0.54 deg	168.12 deg	7559.02 ft	29.08 ft	-23.52 ft

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
7581.00	1.54	155.23	7580.02	28.73	-23.38	-36.83	4.86
7613.00	5.40	145.16	7611.95	27.10	-22.34	-34.95	12.17
7644.00	10.63	142.19	7642.64	23.64	-19.75	-30.68	16.92
7676.00	14.74	140.50	7673.85	18.17	-15.35	-23.69	12.89
7708.00	19.20	139.51	7704.45	11.02	-9.34	-14.39	13.97
7739.00	22.26	138.90	7733.44	2.72	-2.17	-3.45	9.90
7770.00	26.11	137.91	7761.71	-6.77	6.26	9.22	12.49
7801.00	30.11	136.28	7789.05	-17.46	16.21	23.81	13.14
7833.00	33.72	135.67	7816.21	-29.62	27.97	40.72	11.33
7864.00	36.48	136.26	7841.57	-42.43	40.36	58.54	8.97
7896.00	39.51	137.11	7866.79	-56.77	53.87	78.23	9.61
7927.00	42.85	136.68	7890.11	-71.67	67.82	98.62	10.81
7959.00	46.75	134.63	7912.82	-87.78	83.58	121.16	13.00
7990.00	50.86	132.39	7933.23	-103.82	100.50	144.47	14.33
8021.00	54.85	131.25	7951.95	-120.29	118.92	169.14	13.20
8053.00	58.72	130.97	7969.47	-137.89	139.09	195.85	12.12
8084.00	59.85	131.57	7985.31	-155.47	159.12	222.45	4.01
8115.00	60.10	131.86	8000.82	-173.33	179.15	249.25	1.14
8147.00	60.31	131.13	8016.72	-191.73	199.95	276.98	2.09
8178.00	60.02	132.62	8032.14	-209.68	219.97	303.83	4.27
8210.00	62.12	133.77	8047.62	-228.85	240.39	331.82	7.28
8241.00	66.63	134.12	8061.02	-248.24	260.51	359.76	14.58
8334.00	78.24	142.11	8089.08	-314.21	319.40	448.03	14.92
8365.00	80.45	139.40	8094.82	-337.79	338.67	478.33	11.16
8397.00	83.27	138.80	8099.35	-361.74	359.41	509.92	9.01
8428.00	85.59	138.54	8102.36	-384.90	379.78	540.70	7.53
8460.00	86.08	138.73	8104.68	-408.85	400.87	572.54	1.64
8492.00	87.06	139.19	8106.59	-432.95	421.85	604.40	3.38
8523.00	88.88	139.74	8107.69	-456.49	441.98	635.28	6.13
8555.00	89.93	140.12	8108.03	-480.98	462.58	667.15	3.49
8629.00	88.89	136.73	8108.79	-536.33	511.67	740.99	4.79
8724.00	87.34	135.62	8111.91	-604.82	577.42	835.91	2.01
8818.00	88.95	134.87	8114.96	-671.54	643.56	929.85	1.89
8913.00	90.49	135.45	8115.42	-738.90	710.55	1024.84	1.73
9007.00	91.73	135.63	8113.60	-805.97	776.37	1118.82	1.33

Depth (ft)	Inc (deg)	Azimuth (deg)	TVD (ft)	Well Head		Vsect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
9101.00	92.40	134.83	8110.21	-872.66	842.53	1212.75	1.11
9196.00	90.12	134.70	8108.12	-939.54	909.96	1307.72	2.40
9291.00	89.14	133.64	8108.74	-1005.74	978.10	1402.71	1.52
9387.00	89.03	133.16	8110.27	-1071.69	1047.84	1498.67	0.51
9482.00	89.81	135.07	8111.23	-1137.81	1116.04	1593.65	2.17
9577.00	89.69	134.41	8111.65	-1204.68	1183.52	1688.65	0.71
9673.00	90.49	134.61	8111.49	-1271.98	1251.98	1784.65	0.86
9768.00	90.00	134.99	8111.09	-1338.92	1319.38	1879.65	0.65
9862.00	89.51	133.10	8111.49	-1404.26	1386.95	1973.63	2.08
9956.00	89.51	132.06	8112.29	-1467.86	1456.16	2067.56	1.11
10051.00	91.61	133.65	8111.37	-1532.47	1525.79	2162.49	2.77
10145.00	89.51	130.16	8110.45	-1595.23	1595.73	2256.34	4.33
10239.00	90.56	131.19	8110.39	-1656.50	1667.02	2350.10	1.56
10334.00	92.34	134.32	8107.98	-1720.96	1736.74	2444.99	3.79
10429.00	92.53	133.25	8103.95	-1786.63	1805.27	2539.88	1.14
10524.00	90.55	133.70	8101.40	-1851.97	1874.18	2634.82	2.14
10618.00	90.62	135.01	8100.44	-1917.68	1941.38	2728.81	1.40
10713.00	90.92	136.24	8099.16	-1985.58	2007.81	2823.79	1.33
10807.00	87.47	133.95	8100.48	-2052.13	2074.15	2917.76	4.40
10902.00	90.93	138.49	8101.81	-2120.69	2139.85	3012.68	6.01
10996.00	89.88	138.34	8101.14	-2191.00	2202.23	3106.49	1.13
11091.00	88.21	135.50	8102.73	-2260.37	2267.10	3201.40	3.47
11186.00	87.84	134.83	8106.00	-2327.69	2334.04	3296.34	0.81
11280.00	87.29	134.60	8109.99	-2393.77	2400.78	3390.26	0.63
11374.00	87.27	134.04	8114.45	-2459.37	2467.96	3484.15	0.60
11469.00	89.44	137.36	8117.18	-2527.32	2534.26	3579.08	4.17
11563.00	88.34	136.66	8119.00	-2596.07	2598.35	3672.99	1.39
11657.00	89.08	138.56	8121.12	-2665.47	2661.70	3766.85	2.17
11752.00	89.75	138.29	8122.09	-2736.53	2724.74	3861.66	0.76
11845.00	88.83	136.19	8123.24	-2804.81	2787.87	3954.56	2.47
11939.00	89.81	136.01	8124.36	-2872.53	2853.04	4048.53	1.06
12034.00	90.31	135.58	8124.26	-2940.63	2919.28	4143.52	0.69
12129.00	90.49	133.74	8123.59	-3007.40	2986.85	4238.51	1.95
12223.00	91.17	133.85	8122.23	-3072.45	3054.69	4332.48	0.73
12318.00	91.54	133.93	8119.99	-3138.29	3123.14	4427.44	0.40
12412.00	91.11	133.34	8117.81	-3203.14	3191.15	4521.40	0.78
12507.00	89.88	133.24	8116.99	-3268.28	3260.30	4616.36	1.30
12601.00	88.59	133.51	8118.25	-3332.83	3328.61	4710.32	1.40
12694.00	88.77	134.10	8120.39	-3397.19	3395.71	4803.28	0.66
12789.00	89.20	134.71	8122.07	-3463.65	3463.57	4898.26	0.79
12882.00	85.86	135.10	8126.08	-3529.23	3529.37	4991.16	3.62
12977.00	85.68	135.16	8133.09	-3596.37	3596.21	5085.90	0.20
13072.00	87.28	135.63	8138.92	-3663.88	3662.79	5180.71	1.76
13167.00	89.45	139.17	8141.63	-3733.77	3727.06	5275.56	4.37
13262.00	89.14	136.94	8142.80	-3804.42	3790.55	5370.39	2.37
13357.00	88.09	136.18	8145.10	-3873.37	3855.85	5465.32	1.36
13452.00	87.22	136.00	8148.98	-3941.76	3921.68	5560.22	0.94
13547.00	87.47	135.10	8153.38	-4009.50	3988.13	5655.10	0.98
13642.00	88.27	134.62	8156.91	-4076.46	4055.42	5750.04	0.98
13736.00	89.75	135.51	8158.54	-4143.00	4121.80	5844.02	1.84

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head		VSect (ft)	Dogleg (deg/100ft)
				NS (ft)	EW (ft)		
13831.00	89.20	134.16	8159.41	-4209.97	4189.17	5939.01	1.53
13926.00	89.44	133.10	8160.54	-4275.52	4257.92	6033.98	1.14
14021.00	89.01	132.37	8161.82	-4339.98	4327.69	6128.91	0.89
14115.00	88.95	132.45	8163.50	-4403.36	4397.09	6222.81	0.11
14211.00	88.71	131.85	8165.46	-4467.77	4468.24	6318.69	0.67
14305.00	88.59	131.57	8167.67	-4530.30	4538.40	6412.52	0.32
14400.00	88.95	130.89	8169.71	-4592.90	4609.83	6507.32	0.81
14495.00	89.32	131.85	8171.14	-4655.68	4681.11	6602.13	1.08
14590.00	88.65	131.33	8172.83	-4718.73	4752.15	6696.96	0.89
14685.00	89.38	132.07	8174.46	-4781.91	4823.07	6791.81	1.09
14780.00	89.51	133.25	8175.38	-4846.29	4892.93	6886.73	1.25
14876.00	89.74	133.33	8176.01	-4912.11	4962.80	6982.70	0.25
14971.00	89.69	132.52	8176.48	-4976.81	5032.37	7077.64	0.85
15066.00	89.69	130.53	8176.99	-5039.79	5103.49	7172.48	2.09
15161.00	89.94	129.49	8177.30	-5100.86	5176.25	7267.14	1.13
15256.00	91.30	128.19	8176.27	-5160.43	5250.23	7361.62	1.98
15350.00	92.35	127.93	8173.28	-5218.35	5324.21	7454.92	1.15
15446.00	93.58	127.52	8168.31	-5277.01	5400.04	7550.05	1.35
15481.00	94.20	127.30	8165.94	-5298.23	5427.77	7584.68	1.88

Weatherford surveys from 7581 ft MD to 15481 ft MD.

TD at 15524 ft MD.

The total correction is 7.28 deg relative to Grid North.