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NOV 28 2012

BOPCO WTD PRODUCTION



Weatherford[®]

Evaluation, Drilling & Intervention

10000 West County Rd. 116

P.O. Box 61028

Midland, TX USA 79711

Tel. (432) 561-8892 Fax (432) 561-8895

BOPCO, LP
PO Box 2760
Midland, TX 79702

Date: November 20, 2012

Attention: Stephen Ordoyne

Re: BOPCO, LP
Well: Poker Lake Unit 412H
Eddy County, New Mexico

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NMOCD ARTESIA

30-015-39919

→ Provide tie-in survey
Surface - 7460'

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Chris Hinterlach MWD Supervisor	412H	7468' MD 14950' MD	07/18/2012 08/21/2012	Measurement While Drilling

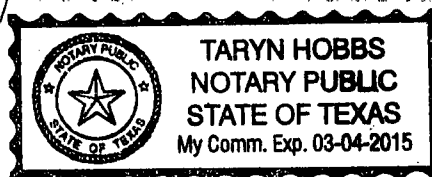
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Daniel Rodriguez
MWD Ops Coordinator

On this, the 20th day of November 2012, before me a notary public, the undersigned officer, personally appeared Daniel Rodriguez, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public



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NMOCD ARTESIA

Weatherford WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P.	Date: 8/21/2012	Time: 04:06:52	Page: 1
Field: Eddy County, NM (Nad 27)	Co-ordinate(NE) Reference: Well: PLU 412H, Grid North		
Site: Poker Lake Unit 412H	Vertical (TVD) Reference: SITE 3507.0		
Well: PLU 412H	Section (VS) Reference: Well (0.00N,0.00E,136.29Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		
			Db: Sybase

Survey: Wft Svy	Start Date: 7/30/2012
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	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Poker Lake Unit 412H	
Site Position:	Northing: 433321.50 ft
From: Map	Easting: 670448.61 ft
Position Uncertainty: 0.00 ft	Latitude: 32 11 24.423 N
Ground Level: 3485.00 ft	Longitude: 103 46 56.473 W
	North Reference: Grid
	Grid Convergence: 0.29 deg

Well: PLU 412H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 11 24.423 N
+E/-W 0.00 ft	Longitude: 103 46 56.473 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 8/15/2012	Above System Datum: Mean Sea Level
Field Strength: 48481 nT	Declination: 7.54 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.09 deg
ft	+N/-S ft
ft	+E/-W ft
ft	Direction deg
0.00	0.00
0.00	136.29

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
7460.70	1.38	157.96	7458.09	-3.18	-4.99	0.00	-1.15	433318.32	670443.62	Tie On VES First Wft Svy
7468.00	1.21	146.60	7465.39	-3.33	-4.91	4.21	-0.99	433318.17	670443.70	
7500.00	1.20	135.35	7497.38	-3.85	-4.49	0.74	-0.32	433317.65	670444.12	
7531.00	4.28	130.55	7528.34	-4.83	-3.39	9.95	1.15	433316.67	670445.22	
7562.00	7.65	129.63	7559.17	-6.90	-0.92	10.87	4.35	433314.60	670447.69	
7594.00	10.85	129.29	7590.75	-10.16	3.06	10.00	9.46	433311.34	670451.67	
7626.00	14.30	131.89	7621.98	-14.71	8.33	10.92	16.39	433306.79	670456.94	
7657.00	17.88	134.95	7651.76	-20.63	14.55	11.86	24.97	433300.87	670463.16	
7689.00	21.03	134.17	7681.93	-28.11	22.15	9.88	35.62	433293.39	670470.76	
7720.00	24.08	134.71	7710.56	-36.43	30.63	9.86	47.50	433285.07	670479.24	
7751.00	26.66	135.03	7738.56	-45.80	40.04	8.33	60.78	433275.70	670488.65	
7783.00	28.80	134.93	7766.89	-56.33	50.58	6.69	75.67	433265.17	670499.19	
7815.00	31.79	134.51	7794.51	-67.68	62.05	9.37	91.80	433253.82	670510.66	
7846.00	34.89	134.56	7820.41	-79.63	74.19	10.00	108.83	433241.87	670522.80	
7878.00	37.90	134.65	7846.16	-92.96	87.71	9.41	127.80	433228.54	670536.32	
7909.00	41.23	135.92	7870.06	-107.00	101.59	11.05	147.54	433214.50	670550.20	
7941.00	44.27	136.53	7893.55	-122.68	116.61	9.59	169.26	433198.82	670565.22	
7973.00	47.35	136.59	7915.86	-139.34	132.39	9.63	192.20	433182.16	670581.00	
8004.00	50.32	136.38	7936.26	-156.26	148.46	9.59	215.54	433165.24	670597.07	
8035.00	53.24	136.38	7955.44	-173.89	165.26	9.42	239.89	433147.61	670613.87	
8067.00	56.25	136.36	7973.91	-192.80	183.29	9.41	266.02	433128.70	670631.90	
8098.00	58.68	136.26	7990.58	-211.70	201.34	7.84	292.15	433109.80	670649.95	
8130.00	59.40	135.67	8007.04	-231.43	220.41	2.75	319.59	433090.07	670669.02	
8161.00	59.73	135.45	8022.74	-250.51	239.13	1.23	346.32	433070.99	670687.74	

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 412H Well: PLU 412H Wellpath: 1	Date: 8/21/2012 Time: 04:06:52 Page: 2 Co-ordinate(NE) Reference: Well: PLU 412H, Grid North Vertical (TVD) Reference: SITE 3507.0 Section (VS) Reference: Well (0.00N,0.00E,136.29Azi) 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
8193.00	59.92	135.47	8038.83	-270.23	258.53	0.60	373.98	433051.27	670707.14	
8214.00	60.02	135.62	8049.34	-283.21	271.26	0.78	392.16	433038.29	670719.87	
8260.00	61.04	136.32	8071.97	-312.00	299.09	2.58	432.20	433009.50	670747.70	7"
8283.00	61.55	136.67	8083.01	-326.63	312.98	2.58	452.38	432994.87	670761.59	
8302.00	60.75	136.32	8092.18	-338.70	324.44	4.51	469.02	432982.80	670773.05	
8333.00	63.49	136.40	8106.68	-358.53	343.35	8.84	496.42	432962.97	670791.96	
8364.00	65.55	136.44	8120.01	-378.80	362.64	6.65	524.40	432942.70	670811.25	
8395.00	67.57	136.27	8132.34	-399.38	382.27	6.54	552.84	432922.12	670830.88	
8426.00	70.92	136.66	8143.33	-420.40	402.23	10.87	581.83	432901.10	670850.84	
8457.00	75.26	136.18	8152.34	-441.88	422.67	14.08	611.48	432879.62	670871.28	
8488.00	80.06	135.76	8158.96	-463.64	443.72	15.54	641.75	432857.86	670892.33	
8519.00	86.64	135.47	8162.55	-485.63	465.24	21.25	672.53	432835.87	670913.85	
8550.00	88.88	135.90	8163.76	-507.80	486.88	7.36	703.50	432813.70	670935.49	
8581.00	90.70	135.21	8163.88	-529.93	508.59	6.28	734.49	432791.57	670957.20	
8672.00	90.31	136.62	8163.08	-595.29	571.89	1.61	825.49	432726.21	671020.50	
8765.00	90.06	136.88	8162.78	-663.03	635.61	0.39	918.48	432658.47	671084.22	
8858.00	88.89	136.06	8163.63	-730.45	699.66	1.54	1011.47	432591.05	671148.27	
8951.00	90.68	136.17	8163.98	-797.47	764.13	1.93	1104.47	432524.03	671212.74	
9044.00	90.44	136.12	8163.07	-864.53	828.56	0.26	1197.47	432456.97	671277.17	
9138.00	90.25	135.15	8162.50	-931.73	894.28	1.05	1291.46	432389.77	671342.89	
9231.00	88.58	134.39	8163.45	-997.22	960.30	1.97	1384.41	432324.28	671408.91	
9325.00	91.48	134.68	8163.40	-1063.14	1027.30	3.10	1478.36	432258.36	671475.91	
9417.00	90.00	133.83	8162.21	-1127.34	1093.19	1.86	1570.29	432194.16	671541.80	
9511.00	90.71	134.18	8161.63	-1192.64	1160.80	0.84	1664.21	432128.86	671609.41	
9604.00	90.79	134.36	8160.41	-1257.55	1227.38	0.21	1757.15	432063.95	671675.99	
9697.00	89.14	134.77	8160.47	-1322.81	1293.64	1.83	1850.10	431998.69	671742.25	
9790.00	91.66	135.42	8159.82	-1388.67	1359.28	2.80	1943.07	431932.83	671807.89	
9884.00	93.02	136.52	8155.98	-1456.19	1424.56	1.86	2036.99	431865.31	671873.17	
9977.00	93.21	137.05	8150.93	-1523.87	1488.15	0.60	2129.85	431797.63	671936.76	
10071.00	91.50	137.53	8147.07	-1592.88	1551.85	1.89	2223.75	431728.62	672000.46	
10164.00	88.83	136.79	8146.80	-1661.07	1615.08	2.98	2316.73	431660.43	672063.69	
10258.00	89.57	137.97	8148.11	-1730.23	1678.72	1.48	2410.70	431591.27	672127.33	
10351.00	90.62	139.83	8147.96	-1800.31	1739.85	2.30	2503.60	431521.19	672188.46	
10445.00	88.24	136.48	8148.89	-1870.31	1802.55	4.37	2597.52	431451.19	672251.16	
10538.00	90.49	140.15	8149.92	-1939.75	1864.38	4.63	2690.44	431381.75	672312.99	
10632.00	88.95	137.70	8150.38	-2010.60	1926.13	3.08	2784.33	431310.90	672374.74	
10725.00	88.70	136.66	8152.29	-2078.80	1989.33	1.15	2877.30	431242.70	672437.94	
10818.00	89.65	136.83	8153.63	-2146.53	2053.05	1.04	2970.28	431174.97	672501.66	
10911.00	89.14	136.78	8154.61	-2214.32	2116.70	0.55	3063.27	431107.18	672565.31	
11005.00	90.06	137.53	8155.27	-2283.24	2180.62	1.26	3157.26	431038.26	672629.23	
11098.00	87.88	136.12	8156.94	-2351.04	2244.24	2.79	3250.23	430970.46	672692.85	
11191.00	89.38	134.78	8159.16	-2417.30	2309.46	2.16	3343.19	430904.20	672758.07	
11284.00	92.59	132.96	8157.56	-2481.73	2376.48	3.97	3436.08	430839.77	672825.09	
11312.00	92.73	132.25	8156.27	-2500.66	2397.07	2.58	3463.99	430820.84	672845.68	
11405.00	92.12	132.07	8152.33	-2563.03	2465.95	0.68	3556.66	430758.47	672914.56	
11498.00	90.43	132.31	8150.26	-2625.47	2534.83	1.84	3649.40	430696.03	672983.44	
11593.00	89.72	133.61	8150.14	-2690.21	2604.35	1.56	3744.24	430631.29	673052.96	
11686.00	89.58	135.51	8150.71	-2755.46	2670.61	2.05	3837.19	430566.04	673119.22	
11779.00	90.35	134.51	8150.76	-2821.23	2736.36	1.36	3930.16	430500.27	673184.97	
11873.00	91.26	136.66	8149.44	-2888.36	2802.14	2.48	4024.14	430433.14	673250.75	
11966.00	90.28	136.71	8148.19	-2956.02	2865.93	1.06	4117.13	430365.48	673314.54	
12059.00	88.81	136.47	8148.93	-3023.57	2929.84	1.60	4210.12	430297.93	673378.45	

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: BOPCO, L.P. Field: Eddy County, NM (Nad 27) Site: Poker Lake Unit 412H Well: PLU 412H Wellpath: 1	Date: 8/21/2012 Time: 04:06:52 Page: 3 Co-ordinate(NE) Reference: Well: PLU 412H, Grid North Vertical (TVD) Reference: SITE 3507.0 Section (VS) Reference: Well (0.00N,0.00E,136.29Azi) 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
12153.00	89.58	137.76	8150.25	-3092.44	2993.80	1.60	4304.10	430229.06	673442.41	
12246.00	90.70	138.60	8150.02	-3161.75	3055.81	1.51	4397.05	430159.75	673504.42	
12339.00	88.81	136.97	8150.42	-3230.62	3118.29	2.68	4490.01	430090.88	673566.90	
12432.00	89.30	136.18	8151.95	-3298.15	3182.21	1.00	4582.99	430023.35	673630.82	
12525.00	90.28	136.62	8152.30	-3365.50	3246.34	1.16	4675.99	429956.00	673694.95	
12619.00	91.19	137.45	8151.09	-3434.28	3310.40	1.31	4769.97	429887.22	673759.01	
12713.00	90.00	137.26	8150.11	-3503.42	3374.08	1.28	4863.95	429818.08	673822.69	
12807.00	89.16	137.61	8150.80	-3572.65	3437.66	0.97	4957.93	429748.85	673886.27	
12901.00	89.44	138.41	8151.95	-3642.51	3500.54	0.90	5051.88	429678.99	673949.15	
12995.00	88.32	136.93	8153.79	-3711.98	3563.82	1.97	5145.83	429609.52	674012.43	
13089.00	89.16	138.15	8155.86	-3781.31	3627.26	1.58	5239.78	429540.19	674075.87	
13183.00	89.30	138.26	8157.12	-3851.39	3689.91	0.19	5333.72	429470.11	674138.52	
13277.00	88.18	138.20	8159.19	-3921.48	3752.51	1.19	5427.64	429400.02	674201.12	
13371.00	89.09	137.81	8161.43	-3991.32	3815.38	1.05	5521.57	429330.18	674263.99	
13466.00	89.02	136.87	8162.99	-4061.17	3879.75	0.99	5616.54	429260.33	674328.36	
13559.00	90.70	137.41	8163.22	-4129.34	3943.00	1.90	5709.53	429192.16	674391.61	
13653.00	88.60	136.34	8163.79	-4197.94	4007.26	2.51	5803.51	429123.56	674455.87	
13746.00	88.46	136.37	8166.18	-4265.21	4071.42	0.15	5896.48	429056.29	674520.03	
13840.00	89.65	137.11	8167.73	-4333.66	4135.83	1.49	5990.47	428987.84	674584.44	
13930.00	90.28	139.19	8167.78	-4400.69	4195.87	2.41	6080.41	428920.81	674644.48	
14021.00	87.62	137.45	8169.45	-4468.64	4256.37	3.49	6171.33	428852.86	674704.98	
14112.00	89.65	139.22	8171.62	-4536.60	4316.84	2.96	6262.24	428784.90	674765.45	
14203.00	89.09	139.95	8172.62	-4605.88	4375.83	1.01	6353.08	428715.62	674824.44	
14295.00	89.44	135.39	8173.80	-4673.87	4437.76	4.97	6445.02	428647.63	674886.37	
14386.00	87.47	132.79	8176.25	-4737.15	4503.09	3.58	6535.91	428584.35	674951.70	
14477.00	88.95	134.29	8179.10	-4799.80	4569.02	2.32	6626.75	428521.70	675017.63	
14571.00	88.11	134.89	8181.51	-4865.77	4635.94	1.10	6720.68	428455.73	675084.55	
14666.00	90.98	134.13	8182.26	-4932.36	4703.68	3.13	6815.62	428389.14	675152.29	
14761.00	91.47	134.62	8180.23	-4998.78	4771.57	0.73	6910.55	428322.72	675220.18	
14855.00	90.56	134.80	8178.57	-5064.90	4838.36	0.99	7004.49	428256.60	675286.97	
14950.00	88.81	133.76	8179.09	-5131.22	4906.37	2.14	7099.43	428190.28	675354.98	Last Wft Svy
15016.00	87.90	133.67	8180.98	-5176.82	4954.05	1.39	7165.33	428144.68	675402.66	Proj. To Bit

Annotation

MD ft	TVD ft	
7460.70	7458.09	Tie On VES
7468.00	7465.39	First Wft Svy
14950.00	8179.09	Last Wft Svy
15016.00	8180.98	Proj. To Bit

BOPCO, L.P.

Poker Lake Unit 412H
Eddy Co, NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8581.00	90.70	135.21	8163.88	-529.93	508.59	0.00	0.00	734.49	
2	8699.02	90.42	136.36	8162.73	-614.50	590.88	1.00	103.74	852.50	
3	10846.58	90.42	136.36	8147.00	-2168.54	2073.03	0.00	0.00	3000.00	Target A
4	10889.67	89.99	136.29	8146.84	-2199.71	2102.79	1.00	-171.01	3043.09	
5	12346.58	89.99	136.29	8147.00	-3252.81	3109.54	0.00	0.00	4500.00	Target B
6	12416.58	89.29	136.30	8147.44	-3303.42	3157.91	1.00	178.85	4570.00	
7	15059.40	89.29	136.30	8180.00	-5214.04	4983.54	0.00	0.00	7212.62	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

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PLU 412H	0.00	0.00	433321.50	670448.61	32°11'24.423N	103°46'56.473W	N/A

SITE DETAILS

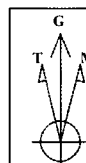
Poker Lake Unit 412H

Site Centre Northing: 433321.50
Easting: 670448.61

Ground Level: 3485.00
Positional Uncertainty: 0.00
Convergence: 0.29

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Target A	8147.00	-2168.54	2073.03	431152.96	672521.64	Point
Target B	8147.00	-3252.81	3109.54	430068.69	673558.15	Point
PBHL	8180.00	-5214.04	4983.54	428107.46	675432.15	Point



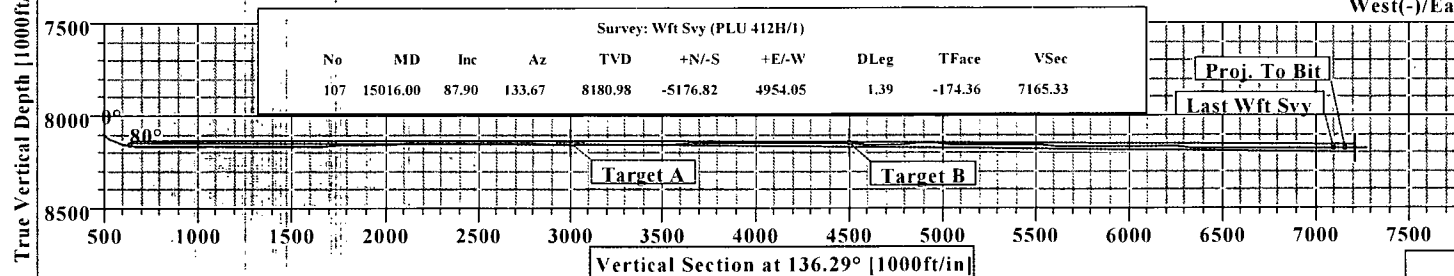
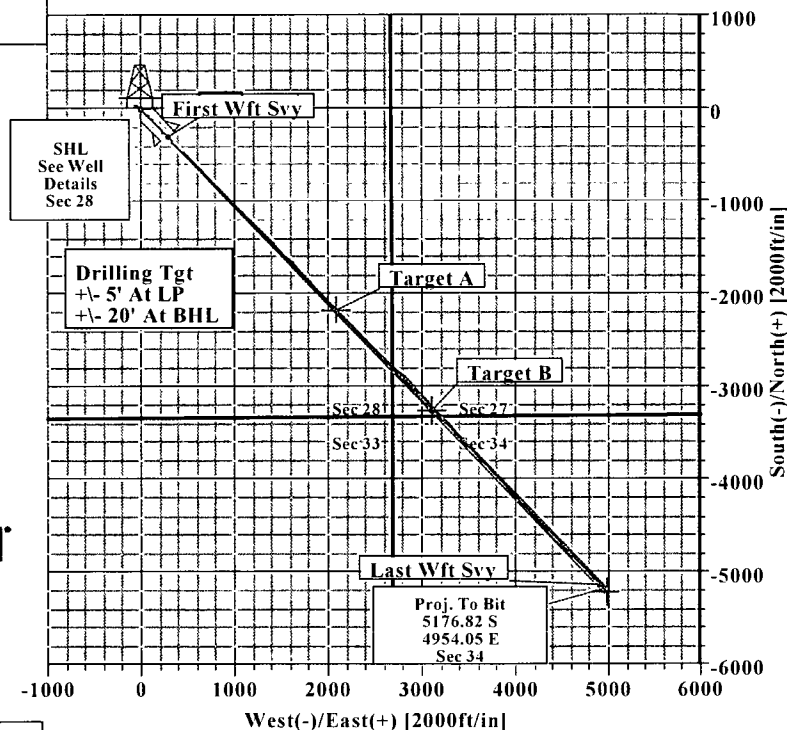
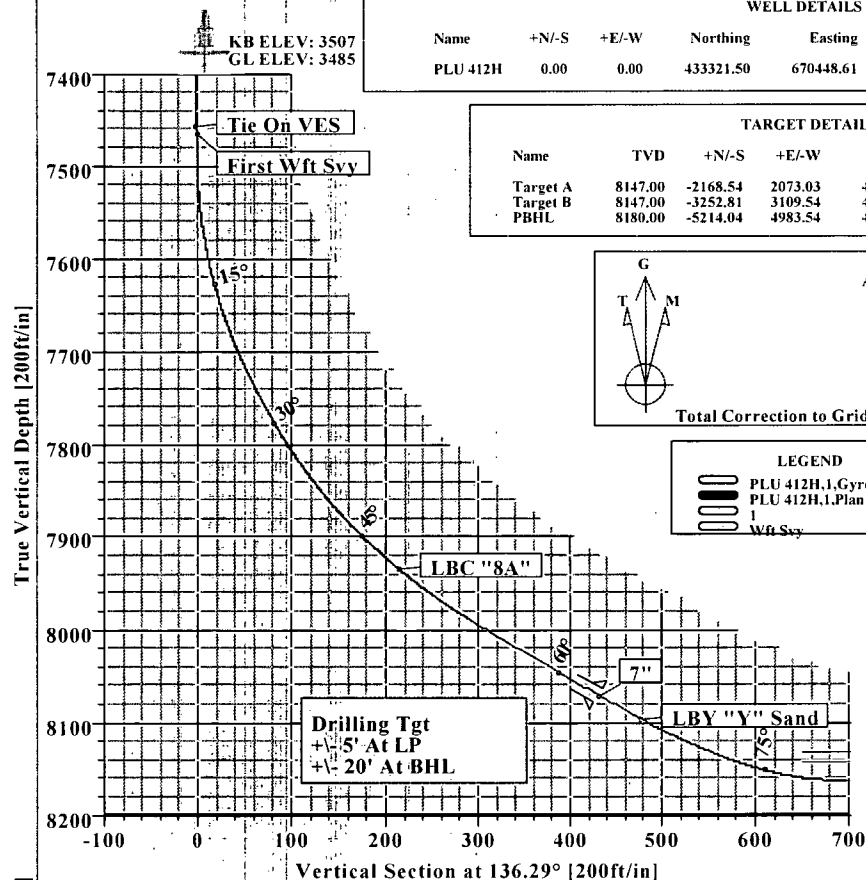
Azimuths to Grid North
True North: -0.29°
Magnetic North: 7.25°

Magnetic Field
Strength: 48481nT
Dip Angle: 60.09°
Date: 8/15/2012
Model: IGRF2010

Total Correction to Grid North: 7.25°

LEGEND

- PLU 412H, 1, Gyro
- PLU 412H, 1, Plan #3
- 1 Wft Svy



No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
107	15016.00	87.90	133.67	8180.98	-5176.82	4954.05	1.39	-174.36	7165.33

Survey: Wft Svy (PLU 412H/1)

Created By: Russell W. Joyner

Date: 8/21/2012

