



August 28, 2014

BOPCO, LP
P O Box 2760
Midland, Texas 79702

Attn: Drilling Department

RE: Big Sinks 2-24-30 State No 002H

Please find enclosed a copy of the survey from 0' to 780' 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

GTI

Company: Bopco
Lease/Well: Big Sinks 2-24-30 State/No 002H
Location: E-2-245-30E-2500-North 370-West
Rig Name: Mcvay #1
State/County: New Mexico/Eddy
Latitude: 32.25, Longitude: -103.86
GRID North is 0.25 Degrees East of True North
VS-Azi: 0.00 Degrees

VES SURVEY
INTERNATIONAL

Depth Reference : 22 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 8/28/2014 / 16:16

VES Survey International
Fort Worth, Texas
Surveyor: Jason Wilson
817-718-1320

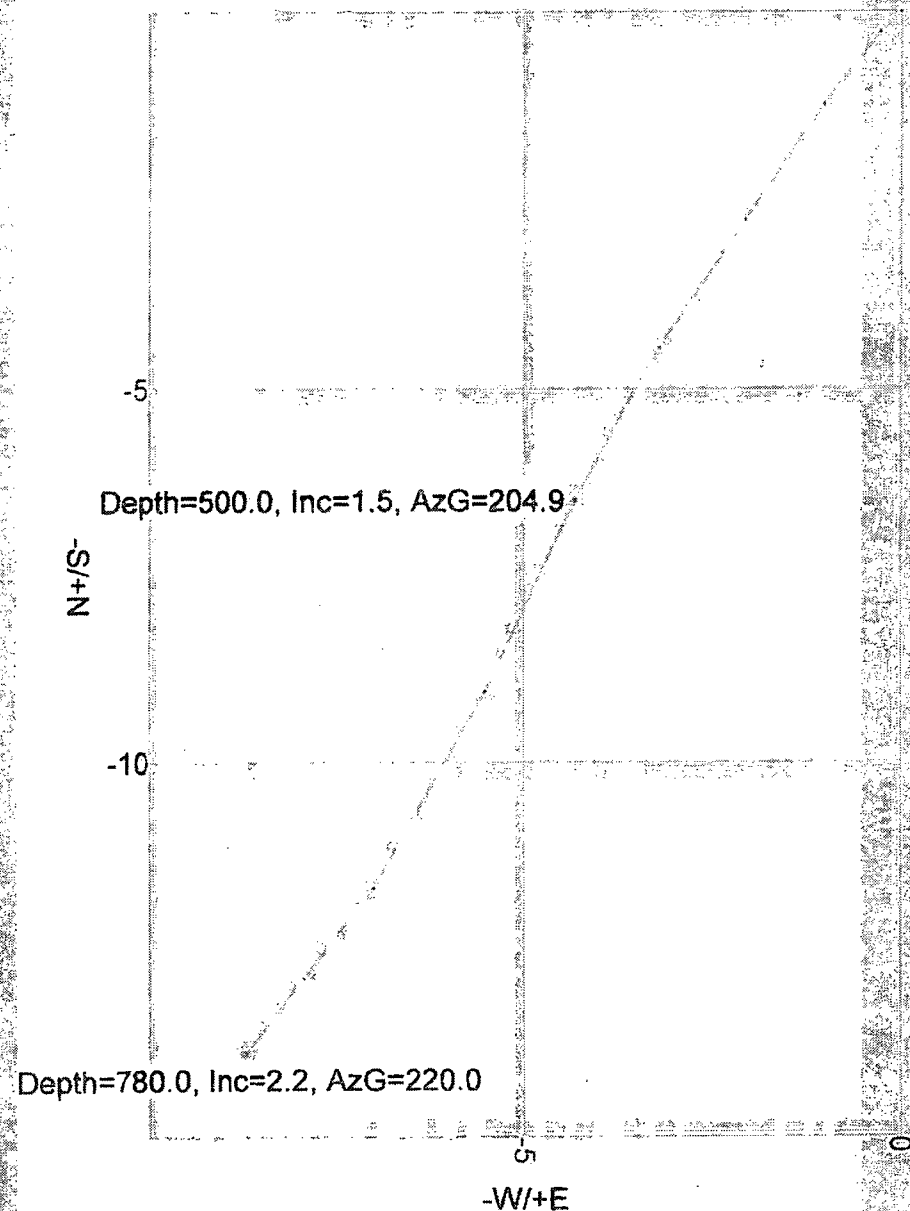
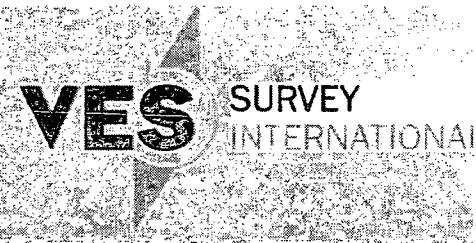
Big Sinks 2-24-30 State No 002H / API 30-015-42456

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	0.45	226.85	100.00	-0.27	-0.29	-0.27	0.39	226.85	0.45
200.00	0.94	214.21	199.99	-1.22	-1.04	-1.22	1.60	220.40	0.51
300.00	1.19	214.08	299.97	-2.76	-2.08	-2.76	3.45	217.03	0.25
400.00	1.16	213.39	399.95	-4.46	-3.22	-4.46	5.50	215.81	0.03
500.00	1.52	204.90	499.93	-6.51	-4.33	-6.51	7.82	213.66	0.41
600.00	1.71	205.11	599.89	-9.07	-5.53	-9.07	10.62	211.37	0.20
700.00	1.76	214.06	699.84	-11.69	-7.02	-11.69	13.64	210.98	0.27
780.00	2.22	219.99	779.79	-13.89	-8.70	-13.89	16.39	212.06	0.63



VES Survey International
Fort Worth, Texas
Surveyor: Jason Wilson
817-718-1320

Big Sinks 2-24-30 State No 002H / API 30-015-42456





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: October 17, 2014

Attention: Brian Braun

Re: BOPCO, LP
Well: PLU BS 02-24-30 #2H
Eddy County, New Mexico

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>
David Latch	2H	862 MD	8/17/2014	Measurement
MWD Supervisor		14977 MD	10/3/2014	While Drilling

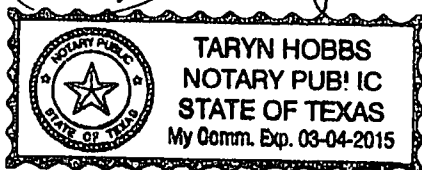
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Ops Coordinator

On this, the 3rd day of November, 2014, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, 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



5D Survey Report

BOPCO, L.P.

Field Name: *Eddy Co, NM Nad27 NMEZ*
Site Name: *PLU CVX JV BS 02-24-30 State 2,3H Pad*
Well Name: *PLU CVX JV BS 02-24-30 State #2H*
Survey: *Wft MWD Svy*

06 October 2014



Weatherford®

PLU CVX JV BS 02-24-30 State #2H

Field Name Eddy Co. NM Nad27 NMEZ	Map Units : US ft	Company Name : BOPCO, L.P.	
	Vertical Reference Datum (VRD) : Mean Sea Level		
	Projected Coordinate System : NAD27 / New Mexico East		
	Comment :		
Site Name PLU CVX JV BS 02-24-30 State 2.3H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.25
	Position	Northing : 453942.50 US ft	Latitude : 32° 14' 49.61"
		Easting : 646737.30 US ft	Longitude : -103° 51' 31.33"
	Elevation above Mean Sea Level: 3455.82 US ft		
	Comment :		
Slot Name PLU CVX JV BS 02-24-30 State #2H	Position (Offsets relative to Site Centre)		
	+N / -S : 0.00 US ft	Northing : 453942.50 US ft	Latitude : 32° 14' 49.61"
	+E / -W : 0.00 US ft	Easting : 646737.30 US ft	Longitude : -103° 51' 31.33"
	Slot TVD Reference : Ground Elevation		
	Elevation above Mean Sea Level : 3455.82 US ft		
	Comment :		
Well Name PLU CVX JV BS 02-24-30 State #2H	Type : Main well	UWI :	
	Rig Height	Well TVD Reference : 20.56	Comment :
	US ft		
	Relative to Mean Sea Level: 3476.38 US ft		
	Closure Distance : 4717.97 US ft	Closure Azimuth : 83.453°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft	+E / -W : 0.00 US ft	Az : 83.71°

Target Set

Name : PLU CVX JV BS 02-24-30 State #2H
Number of Targets : 3

Comment :

Target Name: PBHL #053H	Position (Relative to Slot centre)		
	+N / -S : 515.90 US ft	Northing : 454458.40 US ft	Latitude : 32° 14' 54.51"
	+E / -W : 4683.20 US ft	Easting : 651420.50 US ft	Longitude : -103° 50' 36.78"
Shape: Cuboid	TVD (Well TVD Reference) : 10558.00 US ft		
	Orientation Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Target Name:	Position (Relative to Slot centre)		
H81 for Dwg	+N / -S : 0.00US ft	Northing : 453942.50 US ft	Latitude : 32°14'49.61"
	+E / -W : 0.00 US ft	Easting : 646737.30US ft	Longitude : -103°51'31.33"
Shape:	TVD (Well TVD Reference) : 10510.00 US ft		
Cuboid	Orientation Azimuth : 83.71°	Inclination : -0.86°	
	Dimensions Length : 3000.00 US ft	Breadth : 0.00 US ft	Height : 2.00 US ft

Target Name:	Position (Relative to Slot centre)		
H82 for Dwg	+N / -S : 515.90US ft	Northing : 454458.40 US ft	Latitude : 32°14'54.51"
	+E / -W : 4683.20 US ft	Easting : 651420.50US ft	Longitude : -103°50'36.78"
Shape:	TVD (Well TVD Reference) : 10580.00 US ft		
Cuboid	Orientation Azimuth : 83.71°	Inclination : -0.86°	
	Dimensions Length : 9422.00 US ft	Breadth : 0.00 US ft	Height : 2.00 US ft

Survey Name: Wrt MWD Svy			
Date : 19/Aug/2014	Survey Tool : MWD	Comment :	Company :
Magnetic Model			
Model Name: Default	Date: 16/Apr/2014	Field Strength: 50000.0 nT	Declination: 0.00° Dip: 0.00°
Tie Point			
MD: 780	Inclination: 2.22	Azimuth: 219.99	TVD: 779.79 North Offset: -13.89 East Offset: -8.70025

Casing Points (Relative to Slot centre, TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	
4060.00	0.48	234.80	4058.14	3.18	2.15	453945.68	646739.45	9 5/8 in	
10825.00	72.30	91.21	10445.23	529.82	477.83	454472.32	647215.13	7 in	

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (ft/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
862.00	2.78	228.29	861.71	-16.43	-11.21	-12.94	0.00	453926.07	646726.09	First Wrt Svy #2H
956.00	3.80	232.33	955.56	-19.85	-15.37	-17.46	1.11	453922.65	646721.93	
1051.00	2.89	220.15	1050.39	-23.60	-19.41	-21.88	1.21	453918.90	646717.89	
1146.00	1.60	201.50	1145.32	-26.67	-21.44	-24.23	1.54	453915.83	646715.86	
1241.00	0.42	95.29	1240.31	-27.94	-21.58	-24.51	1.86	453914.56	646715.72	
1336.00	0.78	71.26	1335.30	-27.76	-20.62	-23.54	0.45	453914.74	646716.68	
1430.00	1.14	68.35	1429.29	-27.21	-19.14	-22.01	0.39	453915.29	646718.16	
1525.00	1.56	69.17	1524.26	-26.40	-17.06	-19.85	0.44	453916.10	646720.24	
1620.00	1.86	74.95	1619.22	-25.54	-14.36	-17.07	0.36	453916.96	646722.94	
1715.00	2.39	80.37	1714.16	-24.81	-10.92	-13.57	0.60	453917.69	646726.38	
1810.00	3.05	81.82	1809.05	-24.12	-6.46	-9.07	0.70	453918.38	646730.84	
1905.00	2.88	57.66	1903.92	-22.48	-1.95	-4.40	1.32	453920.02	646735.35	
1999.00	2.72	23.78	1997.82	-19.18	0.95	-1.16	1.74	453923.32	646738.25	
2094.00	2.04	10.10	2092.74	-15.45	2.15	0.45	0.93	453927.05	646739.45	
2189.00	1.99	3.18	2187.68	-12.14	2.54	1.20	0.26	453930.36	646739.84	
2284.00	2.17	3.24	2282.62	-8.70	2.74	1.77	0.19	453933.80	646740.04	
2380.00	2.33	1.97	2378.54	-4.93	2.91	2.35	0.17	453937.57	646740.21	
2475.00	2.52	4.06	2473.46	-0.92	3.12	3.00	0.22	453941.58	646740.42	
2571.00	1.60	3.56	2569.39	2.53	3.35	3.61	0.96	453945.03	646740.65	
2666.00	1.31	3.09	2664.36	4.93	3.49	4.01	0.31	453947.43	646740.79	

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VE (US ft)	DIS (1/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
2762.00	1.33	354.16	2760.34	7.14	3.44	4.20	0.22	453949.64	646740.74	
2857.00	1.20	353.87	2855.31	9.22	3.22	4.21	0.14	453951.72	646740.52	
2952.00	1.06	351.26	2950.30	11.08	2.98	4.18	0.16	453953.58	646740.28	
3047.00	0.75	346.50	3045.28	12.55	2.70	4.06	0.34	453955.05	646740.00	
3143.00	0.40	328.91	3141.28	13.45	2.38	3.84	0.40	453955.95	646739.68	
3238.00	0.22	315.16	3236.28	13.87	2.08	3.59	0.20	453956.37	646739.38	
3334.00	0.10	198.83	3332.28	13.92	1.93	3.44	0.29	453956.42	646739.23	
3429.00	0.38	136.22	3427.28	13.61	2.12	3.60	0.36	453956.11	646739.42	
3525.00	0.04	142.50	3523.22	12.82	2.77	4.15	0.48	453955.32	646740.07	
3619.00	1.34	158.51	3617.25	11.25	3.59	4.80	0.62	453953.75	646740.89	
3714.00	1.95	159.47	3712.21	8.71	4.56	5.49	0.64	453951.21	646741.86	
3809.00	1.11	195.25	3807.18	6.30	4.89	5.55	1.30	453948.80	646742.19	
3903.00	1.06	224.30	3901.16	4.80	4.04	4.54	0.58	453947.30	646741.34	
3999.00	0.99	231.55	3997.15	3.65	2.77	3.15	0.15	453946.15	646740.07	
4060.00	0.48	234.80	4058.14	3.18	2.15	2.49	0.85	453945.68	646739.45	9 5/8 in
4158.00	0.36	40.31	4156.14	3.18	2.02	2.35	0.85	453945.68	646739.32	
4253.00	0.06	178.07	4251.14	3.36	2.21	2.57	0.43	453945.86	646739.51	
4349.00	0.36	112.35	4347.14	3.19	2.49	2.83	0.35	453945.69	646739.79	
4445.00	0.35	98.39	4443.14	3.03	3.06	3.38	0.09	453945.53	646740.36	
4540.00	0.17	305.43	4538.14	3.07	3.23	3.55	0.53	453945.57	646740.53	
4636.00	0.36	289.64	4634.14	3.26	2.83	3.17	0.21	453945.76	646740.13	
4731.00	0.22	285.10	4729.14	3.41	2.38	2.74	0.15	453945.91	646739.68	
4827.00	0.44	297.99	4825.14	3.63	1.87	2.26	0.24	453946.13	646739.17	
4923.00	0.35	302.36	4921.13	3.96	1.30	1.73	0.10	453946.46	646738.60	
5018.00	0.26	309.24	5016.13	4.25	0.89	1.35	0.10	453946.75	646738.19	
5113.00	0.38	322.05	5111.13	4.63	0.53	1.03	0.15	453947.13	646737.83	
5209.00	0.48	324.06	5207.13	5.21	0.10	0.67	0.11	453947.71	646737.40	
5240.00	0.44	323.87	5238.13	5.41	-0.05	0.54	0.13	453947.91	646737.25	
5272.00	0.44	312.76	5270.13	5.59	-0.21	0.40	0.27	453948.09	646737.09	
5304.00	0.57	326.77	5302.12	5.81	-0.39	0.25	0.56	453948.31	646736.91	
5317.00	0.71	336.92	5315.12	5.94	-0.46	0.20	1.38	453948.44	646736.84	
5336.00	1.00	354.78	5334.12	6.21	-0.52	0.16	2.06	453948.71	646736.78	
5367.00	1.05	5.11	5365.12	6.76	-0.52	0.23	0.62	453949.26	646736.78	
5399.00	1.05	13.22	5397.11	7.34	-0.43	0.38	0.46	453949.84	646736.87	
5430.00	1.26	0.23	5428.11	7.96	-0.36	0.52	1.08	453950.46	646736.94	
5462.00	1.25	16.26	5460.10	8.65	-0.26	0.69	1.09	453951.15	646737.04	
5494.00	1.92	8.41	5492.09	9.51	-0.08	0.96	2.20	453952.01	646737.22	
5525.00	2.39	351.00	5523.06	10.66	-0.11	1.06	2.58	453953.16	646737.19	
5557.00	3.47	344.73	5555.02	12.26	-0.47	0.88	3.52	453954.76	646736.83	
5589.00	4.62	340.16	5586.94	14.40	-1.16	0.42	3.73	453956.90	646736.14	
5620.00	5.77	338.17	5617.81	17.02	-2.16	-0.29	3.75	453959.52	646735.14	
5652.00	6.21	337.40	5649.64	20.12	-3.43	-1.20	1.40	453962.62	646733.87	
5684.00	6.53	335.10	5681.44	23.36	-4.86	-2.27	1.28	453965.86	646732.44	
5747.00	7.87	332.89	5743.94	30.45	-8.33	-4.95	2.17	453972.95	646728.97	
5842.00	7.74	334.11	5838.06	42.00	-14.09	-9.40	0.22	453984.50	646723.21	
5937.00	8.10	331.67	5932.16	53.64	-20.06	-14.06	0.52	453996.14	646717.24	
6031.00	8.17	333.80	6025.21	65.47	-26.15	-18.82	0.33	454007.97	646711.15	
6126.00	8.16	331.40	6119.25	77.44	-32.36	-23.68	0.36	454019.94	646704.94	
6221.00	7.68	334.59	6213.34	89.10	-38.31	-28.32	0.68	454031.60	646698.99	
6316.00	7.49	334.43	6307.51	100.41	-43.71	-32.44	0.20	454042.91	646693.59	
6411.00	7.12	330.58	6401.74	111.13	-49.27	-36.80	0.65	454053.63	646688.03	
6506.00	6.63	327.85	6496.06	120.99	-55.08	-41.50	0.62	454063.40	646682.22	
6600.00	6.41	328.89	6589.45	129.99	-60.68	-46.07	0.27	454072.49	646676.62	
6695.00	6.92	338.98	6683.81	139.87	-65.47	-49.75	1.34	454082.37	646671.83	
6790.00	7.04	341.55	6778.11	150.73	-69.37	-52.44	0.35	454093.23	646667.93	
6885.00	6.34	340.91	6872.46	161.21	-72.93	-54.82	0.74	454103.71	646664.37	
6981.00	6.13	343.13	6967.89	171.13	-76.15	-56.94	0.33	454113.63	646661.15	
7076.00	6.51	341.39	7062.31	181.09	-79.34	-59.02	0.45	454123.59	646657.96	
7172.00	7.44	333.76	7157.60	191.82	-83.82	-62.30	1.37	454134.32	646653.48	

3D Survey Report

Survey Points (Relative to Slot centre TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	At (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	OLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
7267.00	7.23	335.26	7251.83	202.76	-89.04	-66.29	0.30	454145.26	646648.26	
7363.00	7.29	333.43	7347.06	213.70	-94.30	-70.32	0.25	454156.20	646643.00	
7459.00	6.75	336.38	7442.34	224.32	-99.28	-74.11	0.68	454166.82	646638.02	
7554.00	6.82	334.00	7536.67	234.50	-103.99	-77.67	0.30	454177.00	646633.31	
7650.00	6.45	337.49	7632.03	244.61	-108.55	-81.10	0.57	454187.11	646628.75	
7745.00	6.12	334.82	7726.46	254.12	-112.75	-84.23	0.46	454196.62	646624.55	
7841.00	5.82	330.62	7821.94	262.99	-117.32	-87.80	0.55	454205.49	646619.98	
7936.00	5.76	326.00	7916.45	271.14	-122.35	-91.90	0.49	454213.64	646614.95	
8032.00	5.95	329.51	8011.95	279.42	-127.56	-96.18	0.42	454221.92	646609.74	
8128.00	5.52	334.89	8107.47	287.93	-132.07	-99.72	0.69	454230.43	646605.23	
8222.00	5.41	336.65	8201.04	296.13	-135.76	-102.50	0.25	454238.63	646601.54	
8254.00	5.23	334.09	8232.90	298.82	-136.99	-103.43	0.93	454241.32	646600.31	
8286.00	5.76	328.57	8264.75	301.51	-138.47	-104.60	2.34	454244.01	646598.83	
8317.00	6.25	326.13	8295.58	304.23	-140.22	-106.04	1.78	454246.73	646597.08	
8349.00	7.09	326.36	8327.37	307.32	-142.28	-107.76	2.63	454249.82	646595.02	
8384.00	7.16	326.36	8362.10	310.94	-144.69	-109.75	0.20	454253.44	646592.61	
8412.00	7.64	328.71	8389.86	313.98	-146.62	-111.34	2.03	454256.48	646590.68	
8444.00	6.65	330.29	8421.61	317.41	-148.65	-113.97	3.15	454259.91	646588.65	
8475.00	6.87	332.81	8452.40	320.62	-150.38	-114.35	1.19	454263.12	646586.92	
8507.00	6.85	339.83	8484.17	324.11	-151.91	-115.49	2.62	454266.61	646585.39	
8539.00	6.94	334.73	8515.94	327.65	-153.40	-116.58	1.93	454270.15	646583.90	
8570.00	5.93	335.64	8546.74	330.80	-154.86	-117.68	3.27	454273.30	646582.44	
8602.00	5.26	331.51	8578.59	333.60	-156.24	-118.75	2.44	454276.10	646581.06	
8634.00	5.74	330.15	8610.44	336.28	-157.74	-119.94	1.55	454278.78	646579.56	
8665.00	5.63	336.29	8641.29	339.01	-159.12	-121.02	1.99	454281.51	646578.18	
8697.00	5.73	333.81	8673.13	341.88	-160.46	-122.03	0.83	454284.38	646576.84	
8728.00	5.76	338.09	8703.98	344.71	-161.72	-122.98	1.39	454287.21	646575.58	
8760.00	6.71	338.56	8735.79	347.94	-163.00	-123.90	2.97	454290.44	646574.30	
8791.00	7.24	337.98	8766.56	351.43	-164.42	-124.93	1.81	454293.93	646572.88	
8823.00	8.14	337.01	8798.27	355.37	-166.09	-126.16	2.81	454297.87	646571.21	
8855.00	8.46	341.66	8829.94	359.69	-167.72	-127.30	2.32	454302.19	646569.58	
8887.00	8.49	340.98	8861.59	364.16	-169.23	-128.31	0.33	454306.66	646568.07	
8919.00	8.51	342.76	8893.24	368.65	-170.70	-129.28	0.82	454311.15	646566.60	
8951.00	8.30	342.07	8924.89	373.11	-172.11	-130.20	0.73	454315.61	646565.19	
8983.00	8.41	343.82	8956.55	377.56	-173.48	-131.07	0.87	454320.06	646563.82	
9014.00	8.54	341.42	8987.21	381.92	-174.84	-131.95	1.22	454324.42	646562.46	
9046.00	8.48	340.58	9018.06	386.39	-176.38	-132.99	0.43	454328.89	646560.92	
9078.00	8.11	342.94	9050.53	390.78	-177.83	-133.95	1.57	454333.28	646559.47	
9110.00	7.65	339.36	9082.23	394.93	-179.24	-134.90	2.10	454337.43	646558.06	
9142.00	7.33	342.89	9113.95	398.87	-180.60	-135.81	1.75	454341.37	646556.70	
9173.00	7.01	340.77	9144.71	402.55	-181.80	-136.60	1.34	454345.05	646555.50	
9205.00	6.71	341.01	9176.48	406.16	-183.05	-137.45	0.94	454348.66	646554.25	
9269.00	6.15	345.79	9240.08	413.02	-185.11	-138.74	1.21	454355.52	646552.19	
9379.00	7.09	344.26	9349.34	425.27	-188.40	-140.67	0.87	454367.77	646548.90	
9460.00	5.82	343.84	9429.83	434.02	-190.90	-142.20	1.57	454376.52	646546.40	
9556.00	5.56	341.52	9525.36	443.11	-193.73	-144.01	0.36	454385.61	646543.57	
9583.00	5.19	342.83	9552.24	445.52	-194.50	-144.52	1.44	454388.02	646542.80	
9620.00	5.46	344.17	9589.08	448.81	-195.48	-145.13	0.80	454391.31	646541.82	
9652.00	6.93	348.48	9620.89	452.16	-196.28	-145.55	4.82	454394.66	646541.02	
9684.00	9.07	4.10	9652.58	456.57	-196.48	-145.28	9.48	454399.07	646540.82	
9715.00	12.10	15.85	9683.05	462.14	-195.42	-143.61	11.95	454404.64	646541.88	
9747.00	14.77	20.35	9714.17	469.19	-193.08	-140.52	8.95	454411.69	646544.22	
9779.00	16.09	26.30	9745.02	476.99	-189.70	-136.30	6.44	454419.49	646547.60	
9811.00	15.94	29.15	9775.78	484.80	-185.60	-131.36	2.50	454427.30	646551.70	
9842.00	16.00	32.06	9805.59	492.14	-181.25	-126.24	2.59	454434.64	646556.05	
9874.00	16.93	37.82	9836.27	499.56	-176.06	-120.26	5.87	454442.06	646561.24	
9906.00	18.40	45.29	9866.77	506.80	-169.61	-113.06	8.43	454449.30	646567.69	
9938.00	19.73	53.92	9897.02	513.53	-161.65	-104.42	9.73	454456.03	646575.65	
9970.00	21.52	59.40	9926.97	519.70	-152.23	-94.38	8.22	454462.20	646585.07	

SD Survey Report

Survey Points (Relative to Slot centre, TVD relative to Wall TVD Reference)										
ID (US ft)	In (")	AT (")	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DBS (7/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
10002.00	23.26	65.91	9956.56	525.27	-141.41	-83.01	9.46	454467.77	646595.89	
10034.00	24.88	69.30	9985.78	530.23	-129.34	-70.47	6.65	454472.73	646607.96	
10065.00	27.27	74.44	10013.63	534.44	-116.40	-57.14	10.60	454476.94	646620.90	
10097.00	29.62	78.03	10041.76	538.05	-101.60	-42.04	9.08	454480.55	646635.57	
10129.00	32.50	81.46	10069.17	540.96	-85.35	-25.57	10.56	454483.46	646651.95	
10161.00	35.57	81.85	10095.69	543.56	-67.64	-7.68	9.62	454486.06	646669.66	
10193.00	38.48	82.18	10121.23	546.18	-48.55	11.58	9.17	454488.68	646688.75	
10225.00	40.51	84.63	10145.93	548.46	-28.33	31.93	7.65	454490.96	646708.97	
10257.00	42.03	87.81	10169.98	549.84	-7.27	53.01	8.09	454492.34	646730.03	
10288.00	43.40	89.73	10192.76	550.29	13.75	73.96	6.10	454492.79	646751.05	
10320.00	45.89	91.07	10215.52	550.13	36.23	96.29	8.32	454492.63	646773.53	
10351.00	47.70	91.51	10236.75	549.62	58.82	118.69	5.93	454492.12	646796.12	
10383.00	48.09	92.22	10258.20	548.84	82.55	142.19	2.05	454491.34	646819.85	
10415.00	49.83	92.80	10279.21	547.78	108.66	166.04	5.61	454490.28	646843.96	
10447.00	53.02	92.66	10299.16	546.59	131.65	190.74	9.97	454489.09	646868.95	
10479.00	56.76	92.12	10317.56	545.51	157.80	216.62	11.77	454488.01	646895.10	
10511.00	59.96	93.13	10334.35	544.25	185.01	243.52	10.35	454486.75	646922.31	
10543.00	63.05	93.92	10349.61	542.52	213.08	271.23	9.90	454485.02	646950.38	
10575.00	66.70	93.30	10363.20	540.70	241.99	299.77	11.54	454483.20	646979.29	
10616.00	70.45	92.70	10376.17	538.71	280.09	337.43	9.25	454481.21	647017.39	
10638.00	70.63	92.87	10385.50	537.70	300.81	357.91	1.10	454480.20	647038.11	
10670.00	70.98	92.58	10396.02	536.26	331.00	387.76	1.39	454478.76	647068.30	
10702.00	71.05	93.02	10406.43	534.78	361.22	417.64	1.32	454477.28	647098.52	
10752.00	71.44	92.93	10422.51	532.33	408.50	464.37	0.80	454474.83	647145.80	
10825.00	72.30	91.21	10445.23	529.82	477.83	533.00	2.52	454472.32	647215.13	7 in
10844.00	72.52	90.77	10450.97	529.51	495.44	550.97	2.52	454472.01	647233.24	
10875.00	74.05	90.70	10459.89	529.13	525.62	580.43	4.94	454471.63	647262.92	
10908.00	75.87	90.60	10468.45	528.76	557.49	612.07	5.52	454471.26	647294.79	
10940.00	77.87	90.26	10475.72	528.53	588.65	643.01	6.34	454471.03	647325.95	
10971.00	79.74	90.06	10481.74	528.45	619.06	673.23	6.07	454470.95	647356.36	
11003.00	82.64	90.08	10486.64	528.41	650.68	704.65	9.06	454470.91	647387.98	
11035.00	84.11	89.84	10490.33	528.43	682.46	736.25	4.65	454470.93	647419.76	
11067.00	85.44	90.21	10493.24	528.42	714.33	767.92	4.31	454470.92	647451.63	
11098.00	86.92	90.63	10495.31	528.19	745.26	798.64	4.96	454470.69	647482.56	
11130.00	87.41	90.56	10496.89	527.86	777.22	830.37	1.55	454470.36	647514.52	
11162.00	88.32	91.31	10498.08	527.34	809.19	862.10	3.68	454469.84	647546.49	
11194.00	88.67	90.88	10498.93	526.72	841.18	893.82	1.73	454469.22	647578.48	
11257.00	91.19	91.62	10499.00	525.35	904.15	956.27	4.17	454467.65	647641.45	
11351.00	90.70	91.48	10497.45	522.81	998.11	1049.38	0.54	454465.31	647735.41	
11446.00	86.92	90.97	10499.42	520.78	1093.05	1143.52	4.01	454463.28	647830.35	
11542.00	87.06	90.85	10504.47	519.25	1188.90	1238.64	0.19	454461.75	647926.20	
11637.00	86.64	90.61	10509.69	518.05	1283.75	1332.78	0.51	454460.55	648021.05	
11731.00	87.13	89.46	10514.79	517.99	1377.61	1426.07	1.33	454460.49	648114.91	
11825.00	89.65	87.49	10517.43	520.49	1471.53	1519.69	3.40	454462.99	648208.83	
11889.00	88.88	86.46	10518.26	523.87	1535.43	1583.58	2.01	454466.37	648272.73	
12015.00	86.08	86.24	10523.80	531.88	1661.04	1709.32	7.23	454474.38	648398.34	
12110.00	90.56	87.26	10526.58	537.28	1755.82	1804.12	4.84	454479.76	648493.12	
12205.00	93.15	87.70	10523.50	541.44	1850.67	1898.85	2.77	454483.94	648587.97	
12299.00	93.85	80.45	10517.77	542.95	1944.48	1992.26	3.01	454485.45	648681.78	
12394.00	92.73	91.60	10512.31	541.25	2039.30	2086.33	1.69	454483.75	648776.60	
12489.00	90.56	91.91	10509.59	538.35	2134.21	2180.35	2.31	454480.85	648871.51	
12583.00	91.54	91.87	10507.86	535.25	2228.14	2273.37	1.04	454477.75	648965.44	
12678.00	88.39	90.23	10507.92	533.51	2323.11	2367.58	3.74	454476.01	649060.41	
12773.00	90.42	89.83	10508.91	533.46	2418.10	2461.99	2.18	454475.96	649155.40	
12868.00	90.63	92.12	10508.04	531.84	2513.08	2556.22	2.42	454474.34	649250.38	
12963.00	87.13	91.58	10509.89	528.77	2608.00	2650.23	3.73	454471.27	649345.30	
13058.00	87.41	90.77	10514.42	526.83	2702.87	2744.32	0.90	454469.33	649440.17	
13152.00	89.44	89.39	10517.00	526.70	2796.82	2837.69	2.61	454469.20	649534.12	
13247.00	89.23	90.42	10518.11	526.85	2891.82	2932.13	1.11	454469.35	649629.12	

Survey Points (Relative to Slope centre, TVD relative to Well TVD Reference)										
MD (US ft)	Incl (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
13342.00	89.51	90.59	10519.15	526.02	2986.81	3026.46	0.34	454468.52	649724.11	
13437.00	88.25	91.12	10521.01	524.60	3081.78	3120.70	1.44	454467.10	649819.08	
13532.00	87.06	90.05	10524.89	523.63	3176.69	3214.93	1.68	454466.13	649913.99	
13627.00	91.12	89.11	10526.40	524.33	3271.65	3309.40	4.39	454466.83	650008.95	
13721.00	91.54	88.21	10524.22	526.52	3365.60	3403.03	1.06	454469.02	650102.90	
13816.00	93.43	88.06	10520.10	529.61	3460.46	3497.65	2.00	454472.11	650197.76	
13912.00	96.02	87.62	10512.19	533.22	3556.05	3593.07	2.74	454475.72	650293.35	
14006.00	94.76	89.69	10503.36	535.41	3649.61	3686.30	2.57	454477.91	650386.91	
14100.00	89.79	91.76	10499.63	534.22	3743.49	3779.48	5.73	454476.72	650480.79	
14195.00	86.71	91.52	10502.53	531.50	3838.39	3873.52	3.25	454474.00	650575.69	
14290.00	85.53	91.37	10508.96	529.11	3933.15	3967.44	1.25	454471.61	650670.45	
14385.00	86.22	90.98	10515.80	527.17	4027.88	4061.39	0.83	454469.67	650765.18	
14480.00	86.99	91.19	10521.42	525.38	4122.69	4155.44	0.84	454467.88	650859.99	
14574.00	85.45	87.47	10527.62	526.47	4216.46	4248.76	4.28	454468.97	650953.76	
14669.00	85.66	87.86	10534.98	530.33	4311.10	4343.25	0.47	454472.83	651048.40	
14764.00	85.38	88.29	10542.40	533.51	4405.75	4437.68	0.54	454476.01	651143.05	
14859.00	86.64	89.45	10549.01	535.38	4500.50	4532.07	1.60	454477.88	651237.80	
14954.00	86.99	89.16	10554.29	536.53	4595.35	4626.47	0.48	454479.03	651332.65	
14977.00	86.85	89.12	10555.53	536.87	4618.31	4649.33	0.63	454479.37	651355.61	Last Wn Svy #2!!
15046.00	86.85	89.12	10559.32	537.93	4687.20	4717.92	0.00	454480.43	651424.50	Proj. To Bit