

Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
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Tel. (432) 561-8892 Fax (432) 561-8895

BOPCO, LP
PO Box 2760
Midland, TX 79702

Date: April 7, 2014

Attention: Jeremy Braden

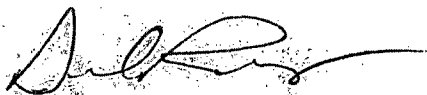
15-42112

Re: BOPCO, LP
Well: Poker Lake Unit 457H
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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Benjamin Hernandez MWD Supervisor	457H	234 MD 16998 MD	3/6/2014 4/5/2014	Measurement While Drilling

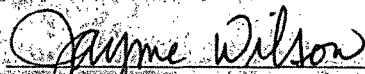
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

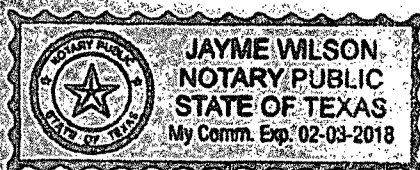


Daniel Rodriguez
MWD Ops. Coordinator

On this, the 7th day of April, 2014, 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.

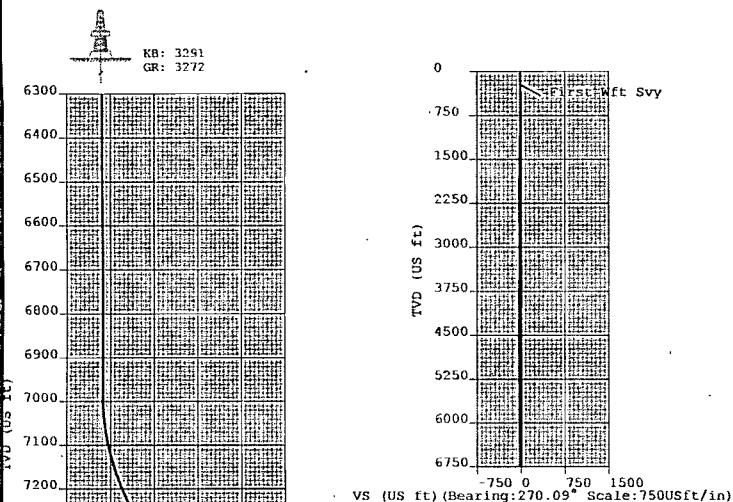
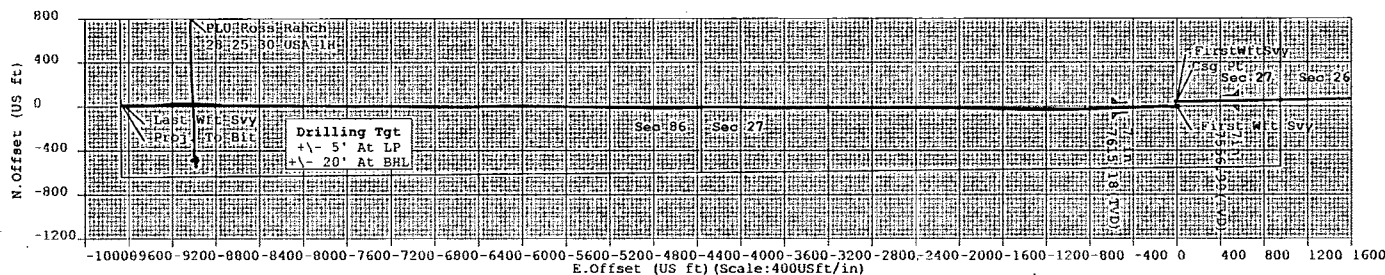
In witness hereof, I hereunto set my hand and official seal.


Notary Public



BOPCO, L.P.
Poker Lake Unit 457H
Eddy Co, NM

PLU 457H _____
 PLU 421H _____
 PLU 421H _____
 PLU Ross Ranch 28 25 30 USA 1H: _____
 PLU 457H _____



Plan Data for PLU 457H

Plan Point Information:

DogLeg Severity Unit: */100.00ft Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLG
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLG)
7872.00	72.73	268.39	7595.67	-14.85	-527.51	398682.15	645112.19	527.48	1.82
7940.00	72.73	268.39	7615.86	-16.68	-592.41	398680.32	645047.29	592.39	0.00
8350.05	92.02	270.24	7670.00	-21.35	-996.88	398675.65	644642.62	996.84	4.73
17019.05	92.02	270.24	7364.00	15.50	-9660.40	398712.50	635979.30	9660.41	0.00

Plan Data for PLU 457H

Target Set Information:

Name: PLU 457H

Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
PRH1	7364.00	-4073.00	15.50	-9660.40	398712.50	635979.30	Cuboid	
HB For Dwg	7731.00	-4440.00	1.21	-764.91	398698.21	644874.79	Cuboid	
HB For Dwg 2	7598.00	-4307.00	15.50	-9660.40	398712.50	635979.30	Cuboid	

Plan Data for PLU 457H

Slot: PLU 457H

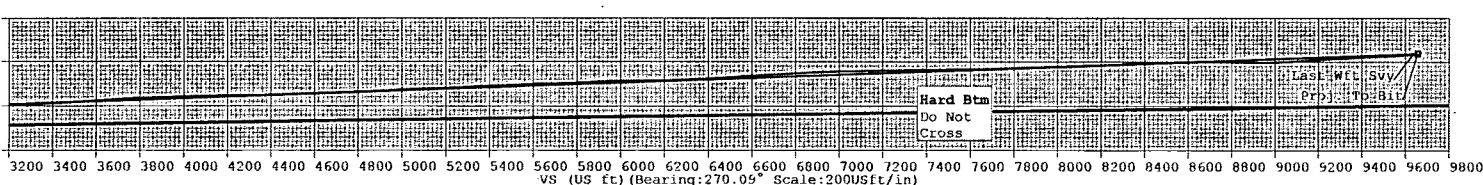
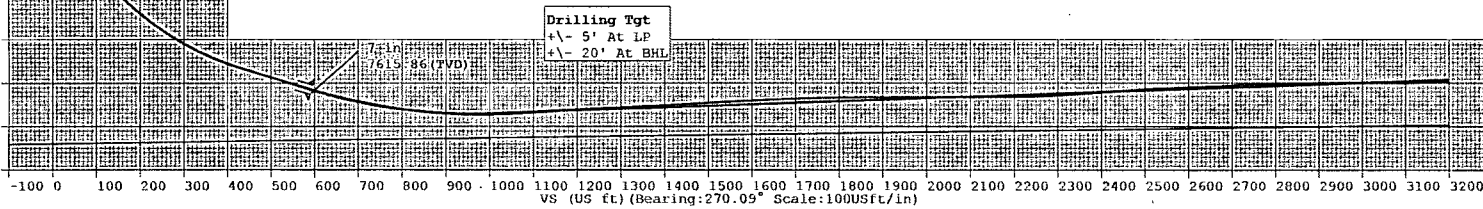
Position:

Offset is from Site centre

+N/-S: 0.00USft Northing: 398697.00USft Latitude: 32°5'42.5"

+E/-W: 0.00USft Easting: 645639.70USft Longitude: -103°51'46.9"

Elevation Above VRD: 3272.00USft



Sign Off: Russell Joyner

5D Survey Report

BOPCO, L.P.**Field Name:** *Eddy Co, NM Nad27 NMEZ***Site Name:** *Poker Lake Unit 457H***Well Name:** *PLU 457H***Survey:** *Wft Svy*

05 April 2014

**Weatherford®**

PLU 457H

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 Poker Lake Unit 457H	Units : US ft	North Reference : Grid	Convergence Angle : 0.25	
	Position	Northing : 398697.00 US ft	Latitude : 32° 51' 42.94"	
		Easting : 645639.70 US ft	Longitude : -103° 51' 46.93"	
	Elevation above Mean Sea Level: 3272.00 US ft			
Comment :				
Slot Name PLU 457H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 398697.00 US ft	Latitude : 32° 51' 42.94"	
	+E / -W : 0.00 US ft	Easting : 645639.70 US ft	Longitude : -103° 51' 46.93"	
	Slot TVD Reference : Ground Elevation			
	Elevation above Mean Sea Level : 3272.00 US ft			
Comment :				
Well Name PLU 457H	Type : Main well		UWI :	
	Rig Height Drill Floor : 19.00 US ft		Comment :	
	Relative to Mean Sea Level: 3291.00 US ft			
	Closure Distance : 9655.19 US ft		Closure Azimuth : 270.036°	
	Vertical Section (Position of Origin Relative to Slot)			
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 270.09°				

Target Set

Name : PLU 457H **Number of Targets :** 3

Comment :

Target Name: PBHL	Position (Relative to Slot centre)			
	+N / -S : 15.50 US ft	Northing : 398712.50 US ft	Latitude : 32° 51' 43.50"	
	+E / -W : -9660.40 US ft	Easting : 635979.30 US ft	Longitude : -103° 53' 39.23"	
	Shape: TVD (Drill Floor) : 7364.00 US ft			
Shape: Cuboid	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: HB For Dwg	Position (Relative to Slot centre)			
	+N / -S : 1.21 US ft	Northing : 398698.21 US ft	Latitude : 32° 51' 42.98"	
	+E / -W : -764.91 US ft	Easting : 644874.79 US ft	Longitude : -103° 51' 55.82"	
	Shape: TVD (Drill Floor) : 7731.00 US ft			
Shape: Cuboid	Orientation Azimuth : 270.09°		Inclination : 0.79°	
	Dimensions Length : 6000.00 US ft		Breadth : 0.00 US ft	
			Height : 1.00 US ft	

5D Survey Report

Target Name:	Position (Relative to Slot centre)		
HB For Dwg 2	+N / -S : 15.50 US ft	Northing : 398712.50 US ft	Latitude : 32°5'43.50"
	+E / -W : -9660.40 US ft	Easting : 635979.30 US ft	Longitude : -103°58'39.23"
Shape:	TVD (Drill Floor) : 7598.00 US ft		
Cuboid	Orientation Azimuth : 270.09°	Inclination : 0.79°	
	Dimensions Length : 17790.00 US ft	Breadth : 0.00 US ft	Height : 1.00 US ft

Survey Name : Wft Svy

Date : 14/Mar/2014 **Survey Tool : MWD** **Comment :** **Company : Wft**

Magnetic Model

Model Name: BGGM **Date: 10/Mar/2014** **Field Strength: 48235.2 nT** **Declination: 7.49°** **Dip: 59.93°**

Tie Point
MD: 0 **Inclination: 0** **Azimuth: 0** **TVD: 0** **North Offset: 0** **East Offset: 0**

Casing Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
3900.00	0.45	194.81	3899.67	5.35	24.52	398702.35	645664.22	7 5/8 in

Well path created using minimum curvature**Survey Points (Relative to Slot centre, TVD relative to Drill Floor)**

MD (US ft)	Inc (°)	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	398697.00	645639.70	
234.00	0.25	104.06	234.00	-0.12	0.50	-0.50	0.11	398696.88	645640.20	First Wft Svy
467.00	0.29	236.18	467.00	-0.58	0.50	-0.50	0.21	398696.42	645640.20	
702.00	0.36	158.98	702.00	-1.60	0.27	-0.27	0.17	398695.40	645639.97	
926.00	1.55	74.76	925.97	-1.46	3.44	-3.45	0.69	398695.54	645643.14	
1172.00	1.74	70.07	1171.86	0.69	10.17	-10.16	0.09	398697.69	645649.87	
1394.00	0.76	63.38	1393.81	2.50	14.65	-14.65	0.45	398699.50	645654.35	
1615.00	0.74	64.55	1614.79	3.77	17.25	-17.24	0.01	398700.77	645656.95	
1837.00	0.47	55.03	1836.78	4.91	19.29	-19.28	0.13	398701.91	645658.99	
2059.00	0.07	38.19	2058.77	5.54	20.12	-20.11	0.18	398702.54	645659.82	
2280.00	0.10	93.35	2279.77	5.63	20.40	-20.39	0.04	398702.63	645660.10	
2502.00	0.07	236.87	2501.77	5.55	20.48	-20.47	0.07	398702.55	645660.18	
2723.00	0.30	270.59	2722.77	5.48	19.78	-19.78	0.11	398702.48	645659.48	
2945.00	0.44	310.40	2944.77	6.04	18.55	-18.54	0.13	398703.04	645658.25	
3167.00	0.69	347.80	3166.76	7.90	17.62	-17.61	0.19	398704.90	645657.32	
3388.00	0.69	83.98	3387.75	9.34	18.66	-18.65	0.46	398706.34	645658.36	
3610.00	1.63	119.02	3609.70	7.94	22.76	-22.74	0.51	398704.94	645662.46	
3834.00	0.49	230.05	3833.67	5.78	24.81	-24.80	0.83	398702.78	645664.51	
3900.00	0.45	194.81	3899.67	5.35	24.52	-24.52	0.44	398702.35	645664.22	7 5/8 in
4054.00	0.88	146.25	4053.66	3.77	25.02	-25.02	0.44	398700.77	645664.72	
4275.00	1.07	137.77	4274.63	0.84	27.35	-27.35	0.11	398697.84	645667.05	
4522.00	0.31	225.14	4521.61	-1.34	28.43	-28.43	0.45	398695.66	645668.13	
4771.00	0.35	226.38	4770.61	-2.34	27.40	-27.41	0.02	398694.66	645667.10	
5021.00	0.38	252.57	5020.60	-3.12	26.06	-26.06	0.07	398693.88	645665.76	
5272.00	0.25	252.51	5271.60	-3.53	24.74	-24.75	0.05	398693.47	645664.44	
5522.00	0.30	253.77	5521.60	-3.88	23.59	-23.60	0.02	398693.12	645663.29	
5772.00	0.28	231.38	5771.59	-4.44	22.49	-22.50	0.05	398692.56	645662.19	
5993.00	0.43	242.96	5992.59	-5.16	21.33	-21.34	0.07	398691.84	645661.03	
6213.00	0.38	250.05	6212.58	-5.78	19.91	-19.92	0.03	398691.22	645659.61	
6462.00	0.35	255.76	6461.58	-6.25	18.39	-18.40	0.02	398690.75	645658.09	
6683.00	0.21	208.56	6682.58	-6.77	17.55	-17.56	0.12	398690.23	645657.25	
6904.00	0.38	170.66	6903.57	-7.85	17.47	-17.48	0.11	398689.15	645657.17	
6944.00	0.45	168.35	6943.57	-8.14	17.52	-17.54	0.18	398688.86	645657.22	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	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	
6993.00	0.73	223.25	6992.57	-8.55	17.35	-17.36	1.22	398688.45	645657.05		
7024.00	3.70	257.67	7023.55	-8.91	16.24	-16.25	10.08	398688.09	645655.94		
7056.00	7.43	269.84	7055.39	-9.14	13.16	-13.17	12.16	398687.86	645652.86		
7086.00	10.81	273.81	7085.01	-8.95	8.41	-8.42	11.45	398688.05	645648.11		
7117.00	14.36	275.16	7115.26	-8.41	1.68	-1.69	11.49	398688.59	645641.38		
7149.00	17.26	276.50	7146.04	-7.52	-6.99	6.98	9.13	398689.48	645632.71		
7180.00	20.18	274.80	7175.40	-6.55	-16.89	16.88	9.58	398690.45	645622.81		
7209.00	22.66	272.88	7202.40	-5.85	-27.46	27.45	8.89	398691.15	645612.24		
7240.00	24.68	272.84	7230.79	-5.23	-39.89	39.88	6.52	398691.77	645599.81		
7272.00	26.70	273.59	7259.62	-4.45	-53.74	53.73	6.39	398692.55	645585.96		
7303.00	29.50	273.12	7286.96	-3.60	-68.31	68.31	9.06	398693.40	645571.39		
7334.00	32.90	271.28	7313.48	-3.00	-84.36	84.35	11.39	398694.00	645555.34		
7366.00	36.80	270.22	7339.73	-2.76	-102.64	102.63	12.33	398694.24	645537.06		
7397.00	40.51	269.80	7363.94	-2.76	-122.00	121.99	12.00	398694.24	645517.70		
7429.00	43.05	269.48	7387.80	-2.90	-143.31	143.31	7.97	398694.10	645496.39		
7459.00	45.95	269.05	7409.19	-3.17	-164.34	164.33	9.72	398693.83	645475.36		
7489.00	49.06	267.91	7429.46	-3.76	-186.45	186.44	10.74	398693.24	645453.25		
7521.00	51.84	267.67	7449.83	-4.72	-211.10	211.09	8.71	398692.28	645428.60		
7553.00	54.63	267.93	7468.98	-5.70	-236.71	236.70	8.74	398691.30	645402.99		
7584.00	57.22	267.60	7486.35	-6.70	-262.37	262.36	8.40	398690.30	645377.33		
7614.00	59.83	267.42	7502.01	-7.81	-287.93	287.92	8.72	398689.19	645351.77		
7646.00	62.28	267.48	7517.50	-9.06	-315.90	315.89	7.66	398687.94	645323.80		
7676.00	65.03	268.08	7530.81	-10.10	-342.76	342.75	9.34	398686.90	645296.94		
7707.00	67.84	268.64	7543.20	-10.91	-371.16	371.15	9.21	398686.09	645268.54		
7738.00	70.59	268.66	7554.20	-11.59	-400.13	400.12	8.87	398685.41	645239.57		
7769.00	71.35	268.56	7564.31	-12.30	-429.43	429.41	2.47	398684.70	645210.27		
7800.00	72.09	268.49	7574.03	-13.06	-458.86	458.84	2.40	398683.94	645180.84		
7832.00	72.51	268.51	7583.76	-13.86	-489.33	489.31	1.31	398683.14	645150.37		
7863.00	72.81	268.54	7593.00	-14.62	-518.91	518.89	0.97	398682.38	645120.79		
7872.00	72.73	268.39	7595.67	-14.85	-527.51	527.48	1.82	398682.15	645112.19		
7965.00	74.36	267.84	7622.01	-17.79	-616.65	616.62	1.84	398679.21	645023.05		
7995.00	75.72	267.81	7629.75	-18.89	-645.61	645.58	4.53	398678.11	644994.09		
8026.00	76.65	267.39	7637.16	-20.15	-675.68	675.65	3.28	398676.85	644964.02		
8056.00	78.52	267.71	7643.61	-21.40	-704.95	704.92	6.32	398675.60	644934.75		
8086.00	79.29	267.71	7649.38	-22.58	-734.37	734.33	2.57	398674.42	644905.33		
8117.00	80.43	268.03	7654.84	-23.71	-764.86	764.83	3.82	398673.29	644874.84		
8147.00	81.08	268.29	7659.66	-24.66	-794.46	794.42	2.33	398672.34	644845.24		
8178.00	83.07	268.11	7663.93	-25.63	-825.15	825.10	6.45	398671.37	644814.55		
8209.00	84.67	268.29	7667.24	-26.59	-855.95	855.91	5.19	398670.41	644783.75		
8238.00	86.15	268.36	7669.56	-27.44	-884.85	884.80	5.11	398669.56	644754.85		
8269.00	86.85	268.26	7671.45	-28.35	-915.77	915.73	2.28	398668.65	644723.93		
8300.00	88.11	268.30	7672.82	-29.28	-946.73	946.68	4.07	398667.72	644692.97		
8330.00	89.58	268.18	7673.42	-30.20	-976.71	976.66	4.92	398666.80	644662.99		
8360.00	91.61	267.74	7673.11	-31.27	-1006.69	1006.64	6.92	398665.73	644633.01		
8391.00	92.45	268.01	7672.01	-32.42	-1037.65	1037.59	2.85	398664.58	644602.05		
8421.00	93.43	269.05	7670.47	-33.19	-1067.60	1067.54	4.76	398663.81	644572.10		
8516.00	94.05	270.46	7664.28	-33.59	-1162.39	1162.33	1.62	398663.41	644477.31		
8610.00	92.66	271.23	7658.78	-32.21	-1256.21	1256.16	1.69	398664.79	644383.49		
8705.00	92.52	271.12	7654.48	-30.26	-1351.10	1351.05	0.19	398666.74	644288.60		
8800.00	93.57	271.30	7649.44	-28.26	-1445.94	1445.89	1.12	398668.74	644193.76		
8894.00	92.80	271.60	7644.21	-25.88	-1539.77	1539.72	0.88	398671.12	644099.93		
8989.00	93.01	271.62	7639.40	-23.22	-1634.61	1634.57	0.22	398673.78	644005.09		
9084.00	91.61	272.21	7635.57	-20.05	-1729.47	1729.44	1.60	398676.95	643910.23		
9179.00	90.63	271.50	7633.71	-16.97	-1824.40	1824.37	1.27	398680.03	643815.30		
9273.00	89.86	271.16	7633.31	-14.79	-1918.38	1918.35	0.90	398682.21	643721.32		
9368.00	90.42	270.96	7633.08	-13.03	-2013.36	2013.34	0.63	398683.97	643626.34		
9463.00	89.79	270.90	7632.91	-11.49	-2108.35	2108.33	0.67	398685.51	643531.35		
9558.00	90.77	270.91	7632.44	-9.99	-2203.33	2203.31	1.03	398687.01	643436.37		
9653.00	93.43	269.74	7628.96	-9.45	-2298.26	2298.24	3.06	398687.55	643341.44		

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	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
9748.00	94.48	269.88	7622.41	-9.76	-2393.03	2393.01	1.11	398687.24	643246.67	
9843.00	93.63	269.74	7615.69	-10.08	-2487.79	2487.77	0.91	398686.92	643151.91	
9938.00	91.96	269.84	7611.06	-10.43	-2582.67	2582.65	1.76	398686.57	643057.03	
10032.00	93.01	269.49	7606.98	-10.98	-2676.58	2676.56	1.18	398686.02	642963.12	
10127.00	91.05	269.90	7603.62	-11.48	-2771.51	2771.49	2.11	398685.52	642868.19	
10222.00	91.61	269.73	7601.41	-11.79	-2866.49	2866.47	0.62	398685.21	642773.21	
10317.00	90.28	269.07	7599.85	-12.78	-2961.47	2961.44	1.56	398684.22	642678.23	
10412.00	89.23	269.87	7600.25	-13.66	-3056.46	3056.43	1.39	398683.34	642583.24	
10507.00	92.24	269.80	7599.03	-13.93	-3151.44	3151.42	3.17	398683.07	642488.26	
10602.00	91.33	269.57	7596.07	-14.46	-3246.39	3246.37	0.99	398682.54	642393.31	
10696.00	93.64	269.59	7592.00	-15.15	-3340.30	3340.27	2.46	398681.85	642299.40	
10791.00	93.57	269.30	7586.02	-16.06	-3435.10	3435.07	0.31	398680.94	642204.60	
10886.00	93.43	269.40	7580.23	-17.14	-3529.92	3529.89	0.18	398679.86	642109.78	
10981.00	94.20	269.20	7573.90	-18.30	-3624.70	3624.67	0.84	398678.70	642015.00	
11076.00	93.29	271.14	7567.70	-18.02	-3719.49	3719.46	2.25	398678.98	641920.21	
11171.00	91.89	271.68	7563.41	-15.68	-3814.36	3814.33	1.58	398681.32	641825.34	
11266.00	91.89	271.84	7560.27	-12.76	-3909.27	3909.24	0.17	398684.24	641730.43	
11361.00	92.17	271.87	7556.91	-9.69	-4004.16	4004.14	0.30	398687.31	641635.54	
11456.00	91.33	270.39	7554.01	-7.82	-4099.09	4099.07	1.79	398689.18	641540.61	
11551.00	90.98	269.78	7552.09	-7.68	-4194.07	4194.05	0.74	398689.32	641445.63	
11646.00	89.44	269.59	7551.74	-8.20	-4289.07	4289.05	1.63	398688.80	641350.63	
11741.00	92.17	268.22	7550.41	-10.01	-4384.03	4384.01	3.22	398686.99	641255.67	
11835.00	91.47	267.19	7547.42	-13.78	-4477.90	4477.88	1.32	398683.22	641161.80	
11930.00	91.89	268.36	7544.64	-17.46	-4572.79	4572.76	1.31	398679.54	641066.91	
12025.00	91.47	269.27	7541.85	-19.43	-4667.73	4667.69	1.05	398677.57	640971.97	
12120.00	92.31	271.26	7538.72	-18.99	-4762.67	4762.63	2.27	398678.01	640877.03	
12215.00	92.87	271.41	7534.43	-16.78	-4857.55	4857.51	0.61	398680.22	640782.15	
12309.00	93.29	271.47	7529.38	-14.42	-4951.38	4951.35	0.45	398682.58	640688.32	
12404.00	92.94	270.85	7524.21	-12.50	-5046.22	5046.19	0.75	398684.50	640593.48	
12499.00	90.49	270.58	7521.37	-11.31	-5141.16	5141.14	2.59	398685.69	640498.54	
12595.00	93.57	271.28	7517.97	-9.76	-5237.08	5237.06	3.29	398687.24	640402.62	
12690.00	92.94	270.85	7512.58	-7.99	-5331.91	5331.89	0.80	398689.01	640307.79	
12785.00	91.12	271.04	7509.21	-6.43	-5426.83	5426.81	1.93	398690.57	640212.87	
12880.00	93.64	272.23	7505.27	-3.72	-5521.70	5521.69	2.93	398693.28	640118.00	
12975.00	92.59	272.23	7500.10	-0.03	-5616.49	5616.48	1.11	398696.97	640023.21	
13070.00	90.35	270.51	7497.67	2.24	-5711.42	5711.42	2.97	398699.24	639928.28	
13164.00	93.22	272.16	7494.74	4.43	-5805.33	5805.33	3.52	398701.43	639834.37	
13260.00	92.52	270.47	7489.93	6.63	-5901.18	5901.19	1.90	398703.63	639738.52	
13354.00	90.91	270.82	7487.12	7.68	-5995.13	5995.14	1.75	398704.68	639644.57	
13448.00	89.93	269.78	7486.43	8.18	-6089.13	6089.13	1.52	398705.18	639550.57	
13543.00	91.12	268.89	7485.56	7.07	-6184.11	6184.12	1.56	398704.07	639455.59	
13638.00	92.52	268.50	7482.54	4.91	-6279.04	6279.04	1.53	398701.91	639360.66	
13733.00	92.73	266.18	7478.19	0.51	-6373.83	6373.82	2.45	398697.51	639265.87	
13828.00	93.57	266.63	7472.97	-5.44	-6468.50	6468.48	1.00	398691.56	639171.20	
13923.00	93.50	269.68	7467.11	-8.49	-6563.26	6563.24	3.21	398688.51	639076.44	
14017.00	93.85	270.78	7461.09	-8.12	-6657.06	6657.04	1.23	398688.88	638982.64	
14113.00	92.87	270.77	7455.46	-6.82	-6752.89	6752.87	1.02	398690.18	638886.81	
14208.00	92.87	270.26	7450.70	-5.97	-6847.76	6847.75	0.54	398691.03	638791.94	
14286.00	92.34	270.95	7447.16	-5.14	-6925.68	6925.66	1.11	398691.86	638714.02	
14380.00	91.15	271.86	7444.30	-2.84	-7019.60	7019.59	1.59	398694.16	638620.10	
14476.00	91.60	272.06	7441.99	0.44	-7115.52	7115.51	0.51	398697.44	638524.18	
14570.00	90.62	271.84	7440.17	3.64	-7209.45	7209.44	1.07	398700.64	638430.25	
14665.00	91.11	269.51	7438.74	4.76	-7304.42	7304.42	2.51	398701.76	638335.28	
14760.00	90.88	268.34	7437.09	2.98	-7399.39	7399.39	1.25	398699.98	638240.31	
14855.00	90.86	269.27	7435.64	1.00	-7494.36	7494.35	0.98	398698.00	638145.34	
14950.00	90.97	271.86	7434.13	1.93	-7589.33	7589.33	2.73	398698.93	638050.37	
15045.00	91.05	272.22	7432.45	5.31	-7684.26	7684.26	0.39	398702.31	637955.44	
15140.00	91.67	270.81	7430.20	7.83	-7779.19	7779.20	1.62	398704.83	637860.51	
15235.00	91.73	269.85	7427.38	8.37	-7874.15	7874.15	1.01	398705.37	637765.55	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	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
15329.00	91.79	269.41	7424.49	7.77	-7968.10	7968.11	0.47	398704.77	637671.60	
15424.00	91.67	269.92	7421.62	7.21	-8063.06	8063.06	0.55	398704.21	637576.64	
15519.00	92.34	269.97	7418.30	7.12	-8158.00	8158.00	0.71	398704.12	637481.70	
15614.00	92.47	269.85	7414.31	6.97	-8252.92	8252.92	0.19	398703.97	637386.78	
15708.00	92.22	269.23	7410.47	6.22	-8346.83	8346.83	0.71	398703.22	637292.87	
15803.00	92.41	270.31	7406.63	5.83	-8441.75	8441.75	1.15	398702.83	637197.95	
15898.00	91.36	271.62	7403.51	7.43	-8536.69	8536.69	1.77	398704.43	637103.01	
15993.00	91.48	271.84	7401.15	10.30	-8631.61	8631.62	0.26	398707.30	637008.09	
16088.00	89.12	272.57	7400.65	13.96	-8726.53	8726.54	2.60	398710.96	636913.17	
16183.00	89.32	274.23	7401.95	19.59	-8821.35	8821.37	1.76	398716.59	636818.35	
16278.00	88.95	272.65	7403.38	25.29	-8916.17	8916.20	1.71	398722.29	636723.53	
16372.00	92.65	271.82	7402.07	28.95	-9010.07	9010.11	4.03	398725.95	636629.63	
16468.00	94.20	269.48	7396.33	30.04	-9105.88	9105.92	2.92	398727.04	636533.82	
16563.00	93.02	266.14	7390.35	26.42	-9200.61	9200.64	3.72	398723.42	636439.09	
16658.00	92.65	264.34	7385.65	18.55	-9295.16	9295.18	1.93	398715.54	636344.54	
16751.00	93.77	266.67	7380.44	11.27	-9387.72	9387.73	2.78	398708.27	636251.98	
16846.00	91.30	266.86	7376.24	5.91	-9482.47	9482.47	2.61	398702.91	636157.23	
16940.00	94.07	271.31	7371.84	4.41	-9576.32	9576.32	5.57	398701.41	636063.38	
16998.00	92.53	271.07	7368.50	5.61	-9634.21	9634.21	2.69	398702.61	636005.49	Last Wft Svy
17019.00	92.53	271.07	7367.57	6.00	-9655.19	9655.19	0.00	398703.00	635984.51	Proj. To Bit