

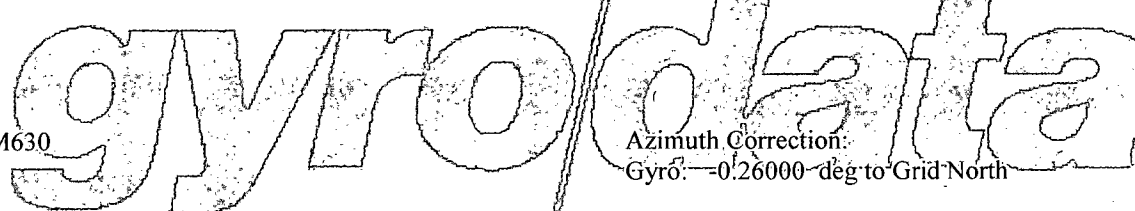
A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO, LP

Lease: PLU CVX JV BS Well: #26H, 6 1/2" DRILL COLLARS
Location: MCVAY DRILLING #1, EDDY COUNTY, NEW MEXICO

The logo for Gyrodata, featuring the word "gyrodata" in a stylized, bold, sans-serif font. The letters are thick and have a slightly distressed or textured appearance. The "gyro" part is on the left and "data" is on the right, separated by a thin vertical line.

Job Number: MD0614GBM630

Run Date: 25 Jun 2014

Report Generated: 01 Jul 2014-09:00

Azimuth Correction:

Gyro: -0.26000 deg to Grid North

Depth-Reference: Rotary-Table

Surveyor: Jason Solomon

Air Gap (RKB to Ground / RKB to MSL): 20.00

Calculation Method: MINIMUM CURVATURE

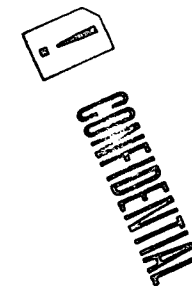
Vertical Section Calculated from Well Head Location

Survey surface coordinates obtained from: Well Plan/Plot

Closure Calculated from Well Head Location

Survey Latitude: 32.209000 deg. N Longitude: 103.845917 deg. W

Horizontal Coordinates Calculated from Well Head Location

A rectangular stamp with a diagonal line from the top-left to the bottom-right. The word "CONFIDENTIAL" is written in a bold, sans-serif font, oriented vertically along the diagonal line. There is a small square icon in the top-left corner of the stamp.

A Gyrodata Directional Survey

BOPCO, LP

Lease: PLU CVX JV BS Well: #26H, 6 1/2" DRILL COLLARS

Location: MCVAY DRILLING #1, EDDY COUNTY, NEW MEXICO

Job Number: MD0614GBM630

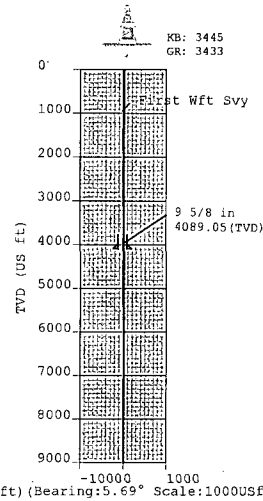
MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N 0.00 E
0 TO 950 FT. RATE GYROSCOPIC BATTERY MULTISHOT RUN INSIDE 6 1/2" DRILL COLLARS							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO MCVAY DRILLING #1 RKB 20 FT.							
100.00	1.01	236.33	1.01	99.99	0.9	236.3	0.49 S 0.74 W
200.00	0.95	229.05	0.14	199.98	2.6	234.0	1.53 S 2.10 W
300.00	1.11	242.34	0.28	299.96	4.4	234.9	2.52 S 3.59 W
400.00	0.93	214.76	0.51	399.95	6.1	233.5	3.63 S 4.90 W
500.00	0.59	205.00	0.36	499.94	7.3	229.5	4.77 S 5.58 W
600.00	0.60	146.01	0.58	599.94	7.9	224.2	5.66 S 5.51 W
700.00	0.78	100.64	0.56	699.93	7.7	216.2	6.22 S 4.55 W
800.00	0.70	127.81	0.36	799.92	7.5	206.8	6.72 S 3.39 W
900.00	0.92	138.46	0.26	899.91	8.1	197.2	7.69 S 2.38 W
950.00	0.98	143.94	0.22	949.90	8.5	192.6	8.34 S 1.86 W

Final Station Closure: Distance: 8.54 ft Az: 192.60 deg.

BOPCO, L.P.

PLU CVX JV BS #026H

Eddy Co, NM



Plan Data for PLU CVX BS #026H

Plan Point Information:

Dogleg Severity Unit: */100.00ft

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	Vsec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
9162.00	1.28	272.77	9160.54	-12.28	-2.76	440083.32	650750.84	-12.49	0.33
9310.00	1.28	272.77	9308.51	-12.12	-6.06	440083.48	650747.54	-12.66	0.00
9893.94	70.00	5.78	9757.70	301.23	18.15	440396.83	650771.75	301.54	12.00
9993.94	70.00	5.78	9791.90	394.72	27.61	440490.32	650781.21	395.51	0.00
10326.46	89.95	5.79	9849.49	718.85	60.44	440814.45	650814.04	721.30	6.00
16798.78	89.95	5.79	9855.00	7158.20	712.90	447253.80	651466.50	7193.61	0.00

Plan Data for PLU CVX BS #026H

Target Set Information:

Name: PLU CVX BS #026

Position offsets from Slot centre

Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting	Shape Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	
PBHL #026H	9855.00	-6400.00	7158.20	712.90	447253.80	651466.50 Cuboid

Plan Data for PLU CVX BS #026H

Slot: PLU CVX BS #026H

Position:

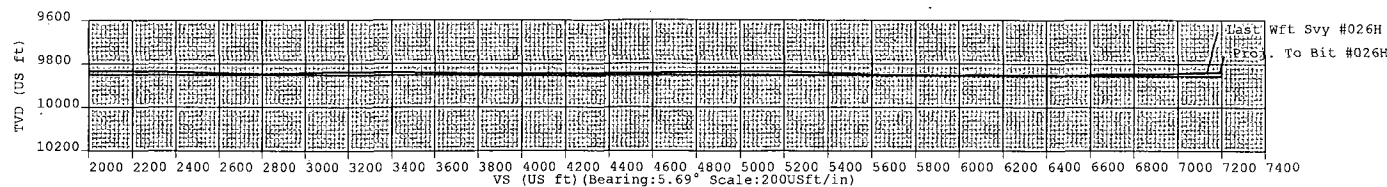
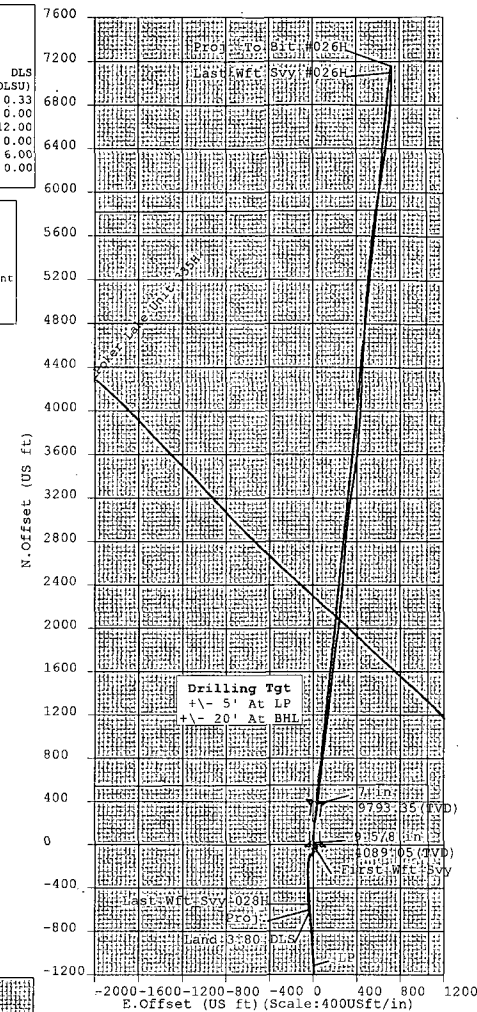
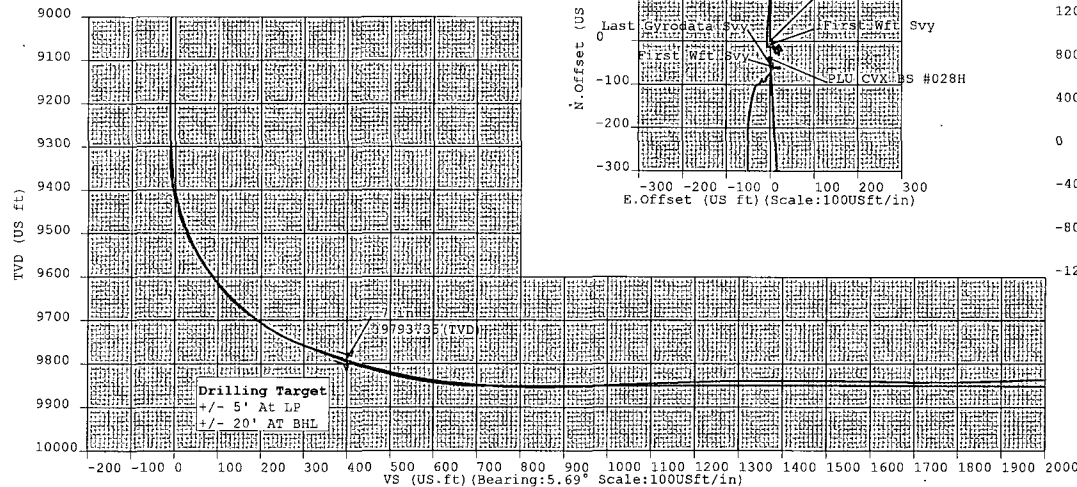
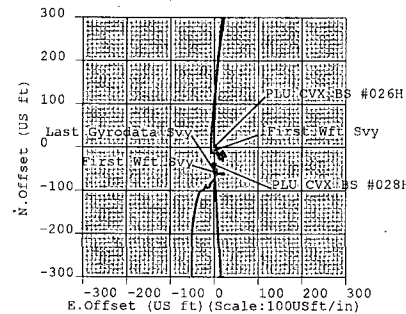
Offset is from Site centre

Northing: 440095.60USft Latitude: 32°12'32.4"

Easting: 650753.60USft Longitude: -103°50'45.3"

Elevation Above VRD: 3433.00USft

PLU CVX BS #026H	_____
PLU CVX BS #028H	_____
Poker Lake Unit 335H	_____
PLU CVX BS #026H	_____
PLU CVX BS #028H	_____



Weatherford

Sign Off: Russell Joyner

RECEIVED



CONFIDENTIAL

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 28 2014

30-015-42375

5D Survey Report**BOPCO, L.P.**

Field Name: *Eddy Co, NM Nad27 NMEZ*
Site Name: *PLU CVX JV BS #026, #028H Pad*
Well Name: *PLU CVX JV BS #026H*
Survey: *Wft Svy*

04 August 2014



PLU CVX JV BS #026H

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 #026, #028H Pad	Units : US ft	North Reference : Grid	Convergence Angle : 0.26	
	Position	Northing : 440095.60 US ft	Latitude : 32° 12' 32.40"	
		Easting : 650753.60 US ft	Longitude : -103° 50' 45.30"	
Elevation above Mean Sea Level: 3433.00 US ft				
Comment :				
Slot Name PLU CVX JV BS #026H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft		Northing : 440095.60 US ft	Latitude : 32° 12' 32.40"
	+E / -W : 0.00 US ft		Easting : 650753.60 US ft	Longitude : -103° 50' 45.30"
	Slot TVD Reference : Ground Elevation			
Elevation above Mean Sea Level : 3433.00 US ft				
Comment :				
Well Name PLU CVX JV BS #026H	Type : Main well		UWI :	
	Rig Height <i>Kelly Bushing</i> : 22.00 US ft		Comment :	
	Relative to Mean Sea Level: 3455.00 US ft			
	Closure Distance : 7190.66 US ft		Closure Azimuth : 5.75472°	
Vertical Section (Position of Origin Relative to Slot)				
+N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 5.69°				

Target Set

Name : PLU CVX BS #026 **Number of Targets :** 1

Comment :

Target Name: PBHL #026H	Position (Relative to Slot centre)		
	+N / -S : 7158.20 US ft	Northing : 447253.80 US ft	Latitude : 32° 13' 43.21"
	+E / -W : 712.90 US ft	Easting : 651466.50 US ft	Longitude : -103° 50' 36.62"
Shape: Cuboid	TVD. (Kelly Bushing) : 9855.00 US ft		
	Orientation Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions Length : 0.00 US ft	Breadth : 0.00 US ft	Height : 0.00 US ft

Survey Name : Wft Svy

Date : 16/Jun/2014 **Survey Tool :** MWD **Comment :** **Company :**

Magnetic Model

Model Name: BGGM **Date:** 15/Jul/2014 **Field Strength:** 48256.2 nT **Declination:** 7.50° **Dip:** 60.04°

Tie Point

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

5D Survey Report

Casing Points (Relative to Slot centre, TVD relative to Kelly Bushing)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
4090.00	0.85	179.65	4089.05	-19.37	16.78	440076.23	650770.38	9 5/8 in
10004.00	71.64	6.68	9793.35	405.25	32.99	440500.85	650786.59	7 in

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
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	440095.60	650753.60	
941.00	0.97	150.76	940.96	-6.95	3.89	-6.53	0.10	440088.65	650757.49	First Wft Svy
973.00	1.04	154.84	972.95	-7.45	4.15	-7.00	0.31	440088.15	650757.75	
1069.00	1.19	154.91	1068.93	-9.14	4.94	-8.61	0.16	440086.46	650758.54	
1165.00	1.78	154.35	1164.90	-11.39	6.01	-10.74	0.61	440084.21	650759.61	
1260.00	2.95	159.41	1259.82	-15.01	7.51	-14.19	1.25	440080.59	650761.11	
1356.00	3.74	165.77	1355.65	-20.35	9.14	-19.35	0.91	440075.25	650762.74	
1448.00	2.51	160.87	1447.51	-25.17	10.54	-24.00	1.37	440070.43	650764.14	
1544.00	1.37	84.92	1543.47	-27.05	12.37	-25.69	2.66	440068.55	650765.97	
1640.00	1.89	44.19	1639.43	-25.81	14.62	-24.24	1.29	440069.79	650768.22	
1735.00	1.82	45.80	1734.38	-23.64	16.79	-21.86	0.09	440071.96	650770.39	
1831.00	1.11	71.49	1830.35	-22.28	18.77	-20.31	0.99	440073.32	650772.37	
1927.00	1.11	64.49	1926.34	-21.58	20.49	-19.45	0.14	440074.02	650774.09	
2022.00	1.02	65.32	2021.32	-20.84	22.09	-18.54	0.10	440074.76	650775.69	
2118.00	0.84	63.16	2117.31	-20.16	23.49	-17.73	0.19	440075.44	650777.09	
2213.00	0.45	85.66	2212.30	-19.82	24.49	-17.29	0.48	440075.78	650778.09	
2309.00	0.22	111.25	2308.30	-19.86	25.03	-17.28	0.28	440075.74	650778.63	
2404.00	0.07	145.32	2403.30	-19.97	25.24	-17.37	0.18	440075.63	650778.84	
2500.00	0.14	137.61	2499.30	-20.11	25.35	-17.49	0.07	440075.49	650778.95	
2596.00	0.16	321.81	2595.30	-20.09	25.35	-17.47	0.31	440075.51	650778.95	
2691.00	0.45	292.73	2690.30	-19.84	24.92	-17.27	0.34	440075.76	650778.52	
2787.00	0.66	295.75	2786.29	-19.45	24.07	-16.97	0.22	440076.15	650777.67	
2882.00	0.85	336.90	2881.28	-18.57	23.31	-16.16	0.59	440077.03	650776.91	
2978.00	0.95	346.92	2977.27	-17.14	22.85	-14.79	0.19	440078.46	650776.45	
3074.00	1.24	342.15	3073.26	-15.37	22.35	-13.08	0.32	440080.23	650775.95	
3169.00	1.44	326.70	3168.23	-13.40	21.38	-11.21	0.43	440082.20	650774.98	
3265.00	1.73	327.43	3264.19	-11.17	19.93	-9.14	0.30	440084.43	650773.53	
3361.00	1.38	325.56	3360.16	-8.99	18.50	-7.11	0.37	440086.61	650772.10	
3456.00	0.78	204.15	3455.15	-8.64	17.59	-6.85	2.01	440086.96	650771.19	
3552.00	1.04	194.19	3551.14	-10.08	17.11	-8.33	0.32	440085.52	650770.71	
3647.00	0.85	201.84	3646.12	-11.57	16.63	-9.86	0.24	440084.03	650770.23	
3743.00	1.32	194.94	3742.11	-13.30	16.08	-11.64	0.51	440082.30	650769.68	
3839.00	1.05	168.33	3838.09	-15.23	15.98	-13.57	0.63	440080.37	650769.58	
3934.00	1.05	163.24	3933.07	-16.91	16.40	-15.20	0.10	440078.69	650770.00	
4023.00	0.87	173.45	4022.06	-18.37	16.72	-16.62	0.28	440077.23	650770.32	
4090.00	0.85	179.65	4089.05	-19.37	16.78	-17.61	0.14	440076.23	650770.38	9 5/8 in
4126.00	0.84	183.10	4125.05	-19.90	16.77	-18.14	0.14	440075.70	650770.37	
4224.00	0.85	171.20	4223.03	-21.33	16.84	-19.56	0.18	440074.27	650770.44	
4320.00	0.79	181.74	4319.03	-22.70	16.93	-20.91	0.17	440072.90	650770.53	
4415.00	0.91	162.59	4414.01	-24.07	17.13	-22.26	0.32	440071.53	650770.73	
4510.00	0.84	178.55	4509.00	-25.49	17.38	-23.64	0.27	440070.11	650770.98	
4605.00	0.66	175.22	4604.00	-26.73	17.44	-24.87	0.19	440068.87	650771.04	
4701.00	0.84	166.18	4699.99	-27.96	17.65	-26.08	0.22	440067.64	650771.25	
4797.00	0.80	176.51	4795.98	-29.32	17.86	-27.40	0.16	440066.28	650771.46	
4892.00	0.74	168.17	4890.97	-30.58	18.03	-28.64	0.13	440065.02	650771.63	
4988.00	1.28	359.15	4986.96	-30.11	18.14	-28.17	2.10	440065.49	650771.74	
5083.00	1.35	353.89	5081.94	-27.94	18.00	-26.02	0.15	440067.66	650771.60	
5179.00	1.42	355.13	5177.91	-25.63	17.78	-23.74	0.08	440069.97	650771.38	
5275.00	1.46	352.86	5273.88	-23.23	17.53	-21.38	0.07	440072.37	650771.13	
5370.00	1.61	349.08	5368.85	-20.72	17.13	-18.92	0.19	440074.88	650770.73	
5465.00	1.64	348.56	5463.81	-18.08	16.60	-16.34	0.04	440077.52	650770.20	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing.)										
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
5560.00	0.38	6.43	5558.79	-16.43	16.37	-14.73	1.35	440079.17	650769.97	
5655.00	0.36	5.45	5653.79	-15.82	16.43	-14.11	0.02	440079.78	650770.03	
5750.00	0.36	356.63	5748.79	-15.23	16.44	-13.52	0.06	440080.37	650770.04	
5845.00	0.41	354.20	5843.78	-14.59	16.39	-12.89	0.06	440081.01	650769.99	
5940.00	0.35	349.52	5938.78	-13.97	16.31	-12.28	0.07	440081.63	650769.91	
6034.00	0.31	332.72	6032.78	-13.46	16.14	-11.79	0.11	440082.14	650769.74	
6130.00	0.38	352.72	6128.78	-12.91	15.98	-11.26	0.14	440082.69	650769.58	
6225.00	0.29	286.39	6223.78	-12.53	15.71	-10.91	0.39	440083.07	650769.31	
6320.00	0.41	280.33	6318.78	-12.40	15.14	-10.84	0.13	440083.20	650768.74	
6415.00	0.50	235.08	6413.77	-12.58	14.47	-11.08	0.38	440083.02	650768.07	
6509.00	0.53	229.60	6507.77	-13.10	13.80	-11.66	0.06	440082.50	650767.40	
6604.00	0.64	237.09	6602.76	-13.67	13.02	-12.31	0.14	440081.93	650766.62	
6699.00	0.77	245.79	6697.76	-14.22	11.99	-12.96	0.18	440081.38	650765.59	
6794.00	0.49	270.78	6792.75	-14.48	11.00	-13.31	0.41	440081.12	650764.60	
6889.00	0.49	263.46	6887.75	-14.52	10.19	-13.43	0.07	440081.08	650763.79	
6983.00	0.47	272.71	6981.75	-14.54	9.41	-13.54	0.09	440081.06	650763.01	
7078.00	0.35	247.90	7076.74	-14.63	8.75	-13.69	0.22	440080.97	650762.35	
7173.00	0.49	250.61	7171.74	-14.88	8.10	-14.00	0.15	440080.72	650761.70	
7268.00	0.50	221.01	7266.74	-15.33	7.44	-14.51	0.27	440080.27	650761.04	
7363.00	0.60	212.04	7361.73	-16.06	6.91	-15.30	0.14	440079.54	650760.51	
7457.00	0.78	215.93	7455.73	-17.00	6.27	-16.29	0.20	440078.60	650759.87	
7552.00	0.43	102.24	7550.72	-17.60	6.24	-16.89	1.09	440078.00	650759.84	
7647.00	0.44	97.19	7645.72	-17.72	6.95	-16.94	0.04	440077.88	650760.55	
7742.00	0.75	63.85	7740.71	-17.49	7.87	-16.62	0.48	440078.11	650761.47	
7837.00	0.40	104.52	7835.71	-17.30	8.75	-16.34	0.54	440078.30	650762.35	
7933.00	0.60	113.97	7931.71	-17.59	9.53	-16.55	0.22	440078.01	650763.13	
8028.00	0.47	108.20	8026.70	-17.91	10.36	-16.79	0.15	440077.69	650763.96	
8123.00	0.35	29.04	8121.70	-17.78	10.87	-16.61	0.56	440077.82	650764.47	
8218.00	0.55	69.90	8216.70	-17.37	11.44	-16.15	0.39	440078.23	650765.04	
8314.00	0.31	320.07	8312.70	-17.01	11.70	-15.76	0.75	440078.59	650765.30	
8410.00	0.55	325.85	8408.69	-16.43	11.28	-15.23	0.25	440079.17	650764.88	
8505.00	1.44	274.04	8503.68	-15.97	9.83	-14.91	1.24	440079.63	650763.43	
8601.00	1.33	275.75	8599.65	-15.77	7.52	-14.95	0.12	440079.83	650761.12	
8696.00	1.20	306.40	8694.63	-15.07	5.62	-14.44	0.72	440080.53	650759.22	
8792.00	1.15	300.24	8790.61	-13.99	3.98	-13.52	0.14	440081.61	650757.58	
8887.00	1.02	290.49	8885.59	-13.21	2.37	-12.91	0.24	440082.39	650755.97	
8983.00	1.09	280.16	8981.58	-12.75	0.67	-12.62	0.21	440082.85	650754.27	
9079.00	1.04	279.44	9077.56	-12.45	-1.09	-12.49	0.05	440083.15	650752.51	
9162.00	1.28	272.77	9160.54	-12.28	-2.76	-12.49	0.33	440083.32	650750.84	
9198.00	1.13	268.61	9196.53	-12.27	-3.52	-12.56	0.48	440083.33	650750.08	
9265.00	1.29	281.06	9263.52	-12.14	-4.92	-12.57	0.46	440083.46	650748.68	
9297.00	2.09	345.39	9295.51	-11.51	-5.42	-11.99	6.01	440084.09	650748.18	
9328.00	3.41	0.96	9326.47	-10.04	-5.55	-10.54	4.85	440085.56	650748.05	
9360.00	6.05	0.21	9358.36	-7.40	-5.52	-7.91	8.25	440088.20	650748.08	
9392.00	9.94	358.05	9390.04	-2.95	-5.61	-3.49	12.19	440092.65	650747.99	
9424.00	13.24	2.26	9421.39	3.47	-5.56	2.90	10.64	440099.07	650748.04	
9456.00	16.94	4.59	9452.28	11.78	-5.04	11.23	11.71	440107.38	650748.56	
9488.00	20.31	5.13	9482.60	21.97	-4.17	21.44	10.54	440117.57	650749.43	
9520.00	24.60	4.84	9512.17	34.14	-3.11	33.66	13.41	440129.74	650750.49	
9552.00	28.61	3.32	9540.77	48.43	-2.11	47.98	12.71	440144.03	650751.49	
9583.00	32.74	2.58	9567.43	64.22	-1.30	63.78	13.38	440159.82	650752.30	
9615.00	37.20	2.70	9593.64	82.54	-0.45	82.09	13.94	440178.14	650753.15	
9647.00	41.21	1.63	9618.44	102.75	0.30	102.27	12.71	440198.35	650753.90	
9679.00	44.57	1.52	9641.88	124.51	0.90	123.99	10.50	440220.11	650754.50	
9711.00	47.93	2.93	9664.00	147.61	1.80	147.06	10.97	440243.21	650755.40	
9743.00	51.12	4.94	9684.77	171.89	3.48	171.38	11.05	440267.49	650757.08	
9775.00	54.65	5.86	9704.08	197.29	5.89	196.90	11.27	440292.89	650759.49	
9806.00	58.78	7.84	9721.09	223.01	8.99	222.80	14.35	440318.61	650762.59	
9838.00	63.25	8.77	9736.59	250.70	13.04	250.75	14.20	440346.30	650766.64	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
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
9870.00	68.07	8.59	9749.78	279.51	17.44	279.86	15.07	440375.11	650771.04	
9902.00	71.43	7.46	9760.85	309.23	21.62	309.85	11.01	440404.83	650775.22	
9943.00	71.29	6.51	9773.96	347.79	26.35	348.69	2.22	440443.39	650779.95	
10004.00	71.64	6.68	9793.35	405.25	32.99	406.52	0.63	440500.85	650786.59	7 in
10036.00	73.76	6.46	9802.86	435.60	36.49	437.07	6.66	440531.20	650790.09	
10067.00	75.50	6.02	9811.08	465.31	39.73	466.96	5.78	440560.91	650793.33	
10099.00	76.87	5.93	9818.72	496.21	42.97	498.03	4.29	440591.81	650796.57	
10131.00	78.16	5.70	9825.64	527.30	46.13	529.27	4.09	440622.90	650799.73	
10163.00	80.01	5.84	9831.70	558.56	49.29	560.69	5.80	440654.16	650802.89	
10194.00	81.87	5.81	9836.58	589.01	52.40	591.30	6.00	440684.61	650806.00	
10226.00	83.84	6.05	9840.56	620.59	55.68	623.05	6.20	440716.19	650809.28	
10258.00	84.82	6.12	9843.72	652.25	59.06	654.90	3.07	440747.85	650812.66	
10289.00	85.24	6.62	9846.41	682.95	62.48	685.78	2.10	440778.55	650816.08	
10385.00	87.83	6.71	9852.21	778.12	73.60	781.58	2.70	440873.72	650827.20	
10481.00	90.91	6.96	9853.26	873.42	85.03	877.54	3.22	440969.02	650838.63	
10575.00	92.52	7.06	9850.45	966.67	96.49	971.47	1.72	441062.27	650850.09	
10670.00	92.10	6.15	9846.62	1060.96	107.41	1066.38	1.05	441156.56	650861.01	
10765.00	91.61	6.92	9843.55	1155.29	118.22	1161.32	0.96	441250.89	650871.82	
10860.00	91.75	6.61	9840.76	1249.59	129.40	1256.26	0.36	441345.19	650883.00	
10955.00	89.79	6.19	9839.48	1343.99	139.99	1351.24	2.11	441439.59	650893.59	
11050.00	90.07	6.64	9839.60	1438.39	150.60	1446.23	0.56	441533.99	650904.20	
11145.00	89.58	5.91	9839.89	1532.82	160.99	1541.23	0.93	441628.42	650914.59	
11241.00	88.39	5.73	9841.59	1628.31	170.72	1637.21	1.25	441723.91	650924.32	
11336.00	90.14	6.64	9842.81	1722.74	180.95	1732.20	2.08	441818.34	650934.55	
11431.00	91.26	7.25	9841.65	1817.04	192.44	1827.16	1.34	441912.64	650946.04	
11526.00	92.52	7.67	9838.52	1911.18	204.77	1922.06	1.40	442006.78	650958.37	
11622.00	91.75	7.63	9834.94	2006.26	217.54	2017.94	0.80	442101.86	650971.14	
11716.00	89.09	6.34	9834.25	2099.55	228.97	2111.90	3.14	442195.15	650982.57	
11810.00	89.51	6.62	9835.40	2192.94	239.58	2205.89	0.54	442288.54	650993.18	
11905.00	88.74	5.85	9836.85	2287.37	249.89	2300.87	1.15	442382.97	651003.49	
12000.00	88.74	4.25	9838.94	2381.97	258.25	2395.84	1.68	442477.57	651011.85	
12095.00	88.04	3.46	9841.61	2476.72	264.64	2490.75	1.11	442572.32	651018.24	
12190.00	88.39	4.34	9844.57	2571.45	271.10	2585.66	1.00	442667.05	651024.70	
12285.00	88.81	3.89	9846.89	2666.18	277.91	2680.59	0.65	442761.78	651031.51	
12381.00	89.58	4.30	9848.24	2761.92	284.76	2776.55	0.91	442857.52	651038.36	
12570.00	92.66	5.30	9844.54	2950.20	300.57	2965.46	1.71	443045.80	651054.17	
12762.00	90.77	8.18	9838.80	3140.76	323.10	3157.31	1.79	443236.36	651076.70	
12950.00	89.72	9.85	9837.99	3326.42	352.55	3344.99	1.05	443422.02	651106.15	
13045.00	88.95	8.56	9839.09	3420.19	367.75	3439.80	1.58	443515.79	651121.35	
13140.00	89.02	7.13	9840.78	3514.28	380.71	3534.71	1.51	443609.88	651134.31	
13235.00	89.16	6.16	9842.29	3608.63	391.71	3629.69	1.03	443704.23	651145.31	
13330.00	89.37	4.83	9843.51	3703.19	400.80	3724.68	1.42	443798.79	651154.40	
13425.00	88.74	3.87	9845.07	3797.90	408.01	3819.64	1.21	443893.50	651161.61	
13520.00	90.14	4.16	9846.00	3892.66	414.66	3914.59	1.50	443988.26	651168.26	
13710.00	91.12	3.28	9843.91	4082.24	426.98	4104.46	0.69	444177.84	651180.58	
13805.00	89.79	3.36	9843.16	4177.08	432.48	4199.38	1.40	444272.68	651186.08	
13900.00	89.16	3.56	9844.03	4271.90	438.22	4294.30	0.70	444367.50	651191.82	
13994.00	88.88	3.22	9845.63	4365.72	443.78	4388.21	0.47	444461.32	651197.38	
14090.00	90.00	3.41	9846.57	4461.55	449.33	4484.12	1.18	444557.15	651202.93	
14184.00	91.40	3.36	9845.42	4555.38	454.88	4578.03	1.49	444650.98	651208.48	
14301.00	90.98	3.36	9843.00	4672.15	461.73	4694.91	0.36	444767.75	651215.33	
14492.00	90.98	3.46	9839.73	4862.79	473.09	4885.73	0.05	444958.39	651226.69	
14587.00	91.05	3.39	9838.05	4957.60	478.77	4980.64	0.10	445053.20	651232.37	
14681.00	89.79	4.22	9837.36	5051.39	485.00	5074.59	1.61	445146.99	651238.60	
14777.00	89.86	4.82	9837.65	5147.09	492.57	5170.57	0.63	445242.69	651246.17	
14872.00	88.67	5.34	9838.87	5241.71	500.98	5265.55	1.37	445337.31	651254.58	
15061.00	87.34	5.55	9845.45	5429.74	518.90	5454.43	0.71	445525.34	651272.50	
15155.00	87.48	5.30	9849.70	5523.22	527.78	5548.33	0.30	445618.82	651281.38	
15250.00	89.16	6.74	9852.48	5617.65	537.74	5643.29	2.33	445713.25	651291.34	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Kelly Bushing)										
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
15441.00	90.28	8.91	9853.41	5806.86	563.74	5834.14	1.28	445902.46	651317.34	
15631.00	90.56	8.95	9852.02	5994.55	593.23	6023.83	0.15	446090.15	651346.83	
15821.00	89.65	9.23	9851.67	6182.16	623.25	6213.49	0.50	446277.76	651376.85	
16011.00	90.35	10.53	9851.67	6369.34	655.85	6402.98	0.78	446464.94	651409.45	
16106.00	89.37	8.19	9851.91	6463.06	671.30	6497.78	2.67	446558.66	651424.90	
16200.00	92.58	6.93	9850.31	6556.22	683.66	6591.70	3.67	446651.82	651437.26	
16295.00	91.33	6.97	9847.07	6650.46	695.15	6686.62	1.32	446746.06	651448.75	
16390.00	90.56	5.19	9845.50	6744.91	705.21	6781.60	2.04	446840.51	651458.81	
16485.00	89.93	1.92	9845.09	6839.71	711.10	6876.52	3.51	446935.31	651464.70	
16579.00	92.31	2.54	9843.25	6933.62	714.76	6970.32	2.62	447029.22	651468.36	
16741.00	91.33	1.09	9838.11	7095.45	719.89	7131.86	1.08	447191.05	651473.49	Last Wft Svy #026H
16800.00	91.33	1.09	9836.74	7154.42	721.01	7190.66	0.00	447250.02	651474.61	Proj. To Bit #026H