

25-43236


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

Devon Energy
 333 W. Sheridan Ave
 Oklahoma City, OK, 73102

Date: July 20, 2017

Attention: Garrett Glaze

Re: Devon Energy
 Well: Blue Krait 23-14 Fed 2H
 Lea County, New Mexico

HOBBS OCD

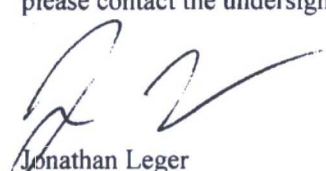
MAR 13 2018

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc., a Weatherford company. Other information required by your office is as follows:

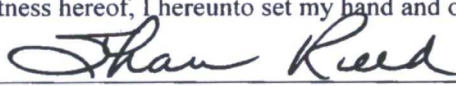
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Michael Lord MWD Supervisor	2H	185' MD 21,031' MD	06/18/2017 07/18/2017	Measurement While Drilling

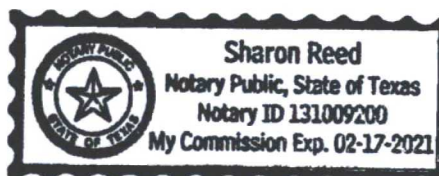
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


 Jonathan Leger
 MWD Ops Coordinator

On this, the 25th day of July, 2017, before me a notary public, the undersigned officer, personally appeared Jonathan Leger, 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**

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Blue Krait 23-14 Fed 2H*
Well Name: *Blue Krait 23-14 Fed 2H*
Survey: *Definitive survey*

19 July 2017





Blue Krait 23-14 Fed 2H

Field Name: Lea Co, NM Nad S3 NMEZ	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
	Comment:		
Site: Blue Krait 23-14 Fed 2H	Units: US ft	North Reference: Grid	Convergence Angle: 0.42
	Elevation above MSL: 3556.10 US ft		
	Comment:		
Slot: Blue Krait 23-14 Fed 2H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3556.10 US ft		
	Comment:		
	Well:		
Well: Blue Krait 23-14 Fed 2H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 10027.4 US ft	Closure Azimuth: 358.91°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: -0.00 US ft	+E/-W: -0.00 US ft	Az: 0.00°

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 23.50us ft
Elevation above MSL: 3579.60us ft
Inclination: 0.00°
Azimuth: 0.00°

Survey Name: Definitive Survey					
Date: 03/Apr/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:		
Magnetic Model:					
Model Name: bggm2017	Date: 26/Jun/2017	Field Strength: 47996.5nT	Declination: 7.01°	Dip: 60.02°	
Tie Point:					
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: -0.00 US ft	North Offset: -0.00 US ft	East Offset: -0.00 US ft

Survey Tool Ranges:			
Name	Start MD(USFT)	End MD(USFT)	Source Survey
MWD	0.00	1296.00	MWD 1
MWD	1296.00	5032.00	MWD 2
MWD	5032.00	10381.00	MWD 3
MWD	10381.00	12222.00	MWD 4

SD Survey Report

Survey Tool Ranges:			
Name	Start MD(usft)	End MD(usft)	Source Survey
MWD	12222.00	18393.00	MWD 5
MWD	18393.00	18961.00	MWD 6
MWD	18961.00	19141.00	MWD 7
MWD	19141.00	21094.00	MWD 8

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD US ft	Inc deg	As deg	TVD US ft	H. Offset US ft	L. Offset US ft	VS deg	GIS 100 US ft	Heading US ft	Heading US ft	Comment
0.00	0.00	0.00	-0.00	-0.00	-0.00	0.00	0.00	436077.68	785117.19	First WFT MWD Survey
185.00	1.02	33.21	184.99	1.38	0.90	1.38	0.55	436079.06	785118.09	
247.00	1.35	22.02	246.98	2.52	1.48	2.52	0.65	436080.20	785118.67	
341.00	1.20	17.57	340.95	4.48	2.19	4.48	0.19	436082.16	785119.38	
434.00	1.34	31.00	433.93	6.34	3.04	6.34	0.35	436084.02	785120.23	
526.00	1.13	39.58	525.91	7.96	4.18	7.96	0.30	436085.64	785121.37	
617.00	1.24	31.25	616.89	9.50	5.26	9.50	0.22	436087.18	785122.45	
710.00	1.27	42.79	709.87	11.11	6.48	11.11	0.27	436088.79	785123.67	
802.00	1.20	40.75	801.85	12.59	7.80	12.59	0.09	436090.27	785124.99	
893.00	0.91	42.11	892.83	13.85	8.91	13.85	0.32	436091.53	785126.10	
985.00	1.09	36.06	984.82	15.10	9.91	15.10	0.23	436092.78	785127.10	
1078.00	1.00	47.29	1077.80	16.36	11.03	16.36	0.24	436094.04	785128.22	
1169.00	1.04	43.79	1168.79	17.50	12.19	17.50	0.08	436095.18	785129.38	
1296.00	0.66	38.23	1295.77	18.91	13.44	18.91	0.31	436096.59	785130.63	
1445.00	0.70	38.77	1444.76	20.29	14.54	20.29	0.03	436097.97	785131.73	
1537.00	0.59	44.06	1536.76	21.07	15.22	21.07	0.14	436098.75	785132.41	
1628.00	0.29	20.98	1627.75	21.62	15.63	21.62	0.38	436099.30	785132.82	
1719.00	0.56	11.39	1718.75	22.27	15.80	22.27	0.31	436099.95	785132.99	
1813.00	0.51	6.40	1812.75	23.14	15.93	23.14	0.07	436100.82	785133.12	
1908.00	0.29	24.62	1907.75	23.78	16.08	23.78	0.26	436101.46	785133.27	
2003.00	0.31	317.82	2002.74	24.18	16.01	24.18	0.35	436101.86	785133.20	
2097.00	0.36	3.09	2096.74	24.67	15.85	24.67	0.28	436102.35	785133.04	
2192.00	0.29	1.40	2191.74	25.21	15.88	25.21	0.07	436102.89	785133.07	
2286.00	0.31	273.60	2285.74	25.46	15.63	25.46	0.44	436103.14	785132.82	
2381.00	0.41	352.06	2380.74	25.81	15.32	25.81	0.49	436103.49	785132.51	
2476.00	0.49	320.98	2475.74	26.46	15.02	26.46	0.27	436104.14	785132.21	
2570.00	0.20	6.70	2569.73	26.94	14.79	26.94	0.40	436104.62	785131.98	
2666.00	0.07	106.51	2665.73	27.09	14.86	27.09	0.23	436104.77	785132.05	
2760.00	0.29	316.12	2759.73	27.24	14.75	27.24	0.38	436104.92	785131.94	
2854.00	0.10	224.99	2853.73	27.36	14.53	27.36	0.33	436105.04	785131.72	
2949.00	0.14	229.29	2948.73	27.22	14.38	27.22	0.04	436104.90	785131.57	
3043.00	0.23	34.62	3042.73	27.30	14.40	27.30	0.39	436104.98	785131.59	
3138.00	0.16	340.56	3137.73	27.59	14.47	27.59	0.20	436105.27	785131.66	
3234.00	0.46	26.71	3233.73	28.06	14.60	28.06	0.38	436105.74	785131.79	
3329.00	0.40	355.48	3328.73	28.73	14.74	28.73	0.25	436106.41	785131.93	
3423.00	0.29	356.91	3422.73	29.29	14.70	29.29	0.12	436106.97	785131.89	
3518.00	0.38	29.73	3517.73	29.81	14.85	29.81	0.22	436107.49	785132.04	
3613.00	0.26	41.58	3612.72	30.24	15.15	30.24	0.14	436107.92	785132.34	
3707.00	0.16	215.01	3706.72	30.29	15.21	30.29	0.45	436107.97	785132.40	
3802.00	0.35	208.79	3801.72	29.93	15.00	29.93	0.20	436107.61	785132.19	
3897.00	0.45	251.66	3896.72	29.56	14.50	29.56	0.32	436107.24	785131.69	
3992.00	0.71	223.48	3991.72	29.01	13.74	29.01	0.40	436106.69	785130.93	
4084.00	0.55	243.55	4083.71	28.40	12.96	28.40	0.29	436106.08	785130.15	
4179.00	0.22	248.47	4178.71	28.13	12.38	28.13	0.35	436105.81	785129.57	
4274.00	0.43	235.13	4273.71	27.86	11.92	27.86	0.23	436105.54	785129.11	
4368.00	0.36	242.71	4367.70	27.53	11.36	27.53	0.09	436105.21	785128.55	
4557.00	0.35	100.25	4556.70	27.15	11.41	27.15	0.36	436104.83	785128.60	
4652.00	0.56	95.88	4651.70	27.05	12.15	27.05	0.22	436104.73	785129.34	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
ID (US ft)	Inc (ft)	Az (°)	TVD (US ft)	E. Offset (US ft)	N. Offset (US ft)	Vs (US ft)	DCS (100US ft)	Northing (US ft)	Eastng (US ft)	Comment
4747.00	0.77	120.69	4746.69	26.68	13.16	26.68	0.37	436104.36	785130.35	
4842.00	0.99	110.26	4841.68	26.07	14.48	26.07	0.29	436103.75	785131.67	
4937.00	1.26	129.07	4936.66	25.13	16.06	25.13	0.48	436102.81	785133.25	
5032.00	1.44	125.38	5031.64	23.78	17.85	23.78	0.21	436101.46	785135.04	
5083.00	1.26	126.06	5082.62	23.08	18.82	23.08	0.35	436100.76	785136.01	
5215.00	1.07	123.85	5214.60	21.53	21.02	21.53	0.15	436099.21	785138.21	
5309.00	0.82	129.74	5308.58	20.62	22.27	20.62	0.28	436098.30	785139.46	
5403.00	0.70	117.37	5402.58	19.92	23.29	19.92	0.22	436097.60	785140.48	
5498.00	0.74	114.28	5497.57	19.40	24.37	19.40	0.06	436097.08	785141.56	
5593.00	0.70	105.14	5592.56	19.00	25.49	19.00	0.13	436096.68	785142.68	
5687.00	0.91	98.30	5686.55	18.74	26.78	18.74	0.25	436096.42	785143.97	
5782.00	1.22	93.72	5781.53	18.57	28.54	18.57	0.34	436096.25	785145.73	
5878.00	1.46	88.17	5877.51	18.54	30.78	18.54	0.28	436096.22	785147.97	
5972.00	1.50	88.16	5971.48	18.62	33.20	18.62	0.04	436096.30	785150.39	
6066.00	0.66	145.93	6065.46	18.21	34.74	18.21	1.36	436095.89	785151.93	
6161.00	0.78	273.96	6160.46	17.80	34.40	17.80	1.36	436095.48	785151.59	
6256.00	2.17	273.11	6255.42	17.94	31.96	17.94	1.46	436095.62	785149.15	
6351.00	3.01	276.45	6350.33	18.32	27.68	18.32	0.90	436096.00	785144.87	
6445.00	3.16	278.49	6444.19	18.98	22.67	18.98	0.20	436096.66	785139.86	
6540.00	4.13	276.19	6539.00	19.73	16.68	19.73	1.03	436097.41	785133.87	
6634.00	4.29	273.78	6632.74	20.33	9.80	20.33	0.25	436098.01	785126.99	
6729.00	4.31	274.17	6727.48	20.83	2.70	20.83	0.04	436098.51	785119.89	
6919.00	4.21	265.34	6916.95	20.78	-11.37	20.78	0.35	436098.46	785105.82	
7014.00	4.06	264.83	7011.71	20.19	-18.20	20.19	0.16	436097.87	785098.99	
7109.00	4.19	263.60	7106.46	19.50	-25.00	19.50	0.17	436097.18	785092.19	
7205.00	4.14	261.53	7202.21	18.60	-31.91	18.60	0.17	436096.28	785085.28	
7300.00	4.11	258.90	7296.96	17.44	-38.64	17.44	0.20	436095.12	785078.55	
7394.00	3.88	258.37	7390.73	16.15	-45.06	16.15	0.25	436093.83	785072.13	
7488.00	3.83	259.58	7484.52	14.94	-51.27	14.94	0.10	436092.62	785065.92	
7583.00	3.68	260.03	7579.31	13.84	-57.39	13.84	0.16	436091.52	785059.80	
7678.00	3.46	254.64	7674.13	12.55	-63.16	12.55	0.42	436090.23	785054.03	
7868.00	3.31	245.76	7863.80	8.78	-73.69	8.78	0.29	436086.46	785043.50	
8058.00	2.85	239.46	8053.53	4.13	-82.76	4.13	0.30	436081.81	785034.43	
8246.00	2.40	246.99	8241.33	0.22	-90.40	0.22	0.30	436077.90	785026.79	
8435.00	2.34	248.55	8430.17	-2.74	-97.64	-2.74	0.05	436074.94	785019.55	
8530.00	2.23	243.53	8525.09	-4.28	-101.10	-4.28	0.24	436073.40	785016.09	
8624.00	2.20	242.32	8619.02	-5.93	-104.33	-5.93	0.06	436071.75	785012.86	
8719.00	2.11	239.85	8713.95	-7.65	-107.46	-7.65	0.14	436070.03	785009.73	
8814.00	2.16	241.00	8808.89	-9.40	-110.54	-9.40	0.07	436068.28	785006.65	
8908.00	2.10	237.46	8902.82	-11.19	-113.54	-11.19	0.15	436066.49	785003.65	
9003.00	1.85	232.74	8997.77	-13.05	-116.23	-13.05	0.31	436064.63	785000.96	
9097.00	1.55	236.64	9091.73	-14.67	-118.50	-14.67	0.34	436063.01	784998.69	
9192.00	1.35	242.73	9186.70	-15.89	-120.56	-15.89	0.27	436061.79	784996.63	
9286.00	1.20	235.73	9280.67	-16.95	-122.36	-16.95	0.23	436060.73	784994.83	
9380.00	0.78	209.38	9374.66	-18.06	-123.49	-18.06	0.65	436059.62	784993.70	
9475.00	0.85	164.40	9469.65	-19.30	-123.62	-19.30	0.66	436058.38	784993.57	
9570.00	1.07	141.55	9564.64	-20.68	-122.88	-20.68	0.46	436057.00	784994.31	
9665.00	1.11	158.96	9659.62	-22.23	-121.99	-22.23	0.35	436055.45	784995.20	
9854.00	0.84	125.36	9848.59	-24.74	-120.21	-24.74	0.33	436052.94	784996.98	
9949.00	0.44	131.03	9943.59	-25.38	-119.36	-25.38	0.43	436052.30	784997.83	
10044.00	0.49	176.51	10038.58	-26.03	-119.06	-26.03	0.38	436051.65	784998.13	
10138.00	1.15	155.88	10132.57	-27.29	-118.65	-27.29	0.76	436050.39	784998.54	
10233.00	0.70	172.08	10227.56	-28.73	-118.18	-28.73	0.54	436048.95	784999.01	
10316.00	0.40	190.93	10310.56	-29.52	-118.17	-29.52	0.42	436048.16	784999.02	
10374.00	0.42	216.11	10368.56	-29.89	-118.33	-29.89	0.31	436047.79	784998.86	
10381.00	0.47	212.61	10375.56	-29.94	-118.36	-29.94	0.81	436047.74	784998.83	
10422.00	0.35	216.88	10416.56	-30.18	-118.53	-30.18	0.30	436047.50	784998.66	
10517.00	0.70	213.67	10511.55	-30.89	-119.02	-30.89	0.37	436046.79	784998.17	
10612.00	0.28	212.53	10606.55	-31.57	-119.47	-31.57	0.44	436046.11	784997.72	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	AZ (°)	TVD (US ft)	NORSEAT (US ft)	EORSEAT (US ft)	YS (US ft)	DIS 10205 ft	Northing (US ft)	Easting (US ft)	Comment
10707.00	0.43	147.27	10701.55	-32.07	-119.40	-32.07	0.42	436045.61	784997.79	
10754.00	1.48	340.31	10748.54	-31.64	-119.51	-31.64	4.05	436046.04	784997.68	
10802.00	6.34	350.62	10796.42	-28.44	-120.15	-28.44	10.19	436049.24	784997.04	
10849.00	11.26	352.71	10842.85	-21.33	-121.16	-21.33	10.49	436056.35	784996.03	
10897.00	15.91	351.61	10889.49	-10.16	-122.72	-10.16	9.70	436067.52	784994.47	
10944.00	21.40	351.21	10934.01	4.69	-124.97	4.69	11.68	436082.37	784992.22	
10993.00	27.01	350.63	10978.68	24.52	-128.15	24.52	11.46	436102.20	784989.04	
11040.00	32.83	351.43	11019.40	47.67	-131.79	47.67	12.41	436125.35	784985.40	
11088.00	38.39	354.28	11058.41	75.39	-135.21	75.39	12.09	436153.07	784981.98	
11135.00	44.34	355.47	11093.67	106.31	-137.97	106.31	12.77	436183.99	784979.22	
11182.00	50.96	356.30	11125.31	140.94	-140.45	140.94	14.15	436218.62	784976.74	
11229.00	57.51	356.97	11152.77	178.99	-142.67	178.99	13.98	436256.67	784974.52	
11277.00	63.94	358.14	11176.23	220.80	-144.45	220.80	13.56	436298.48	784972.74	
11324.00	69.86	359.94	11194.66	264.00	-145.15	264.00	13.08	436341.68	784972.04	
11372.00	75.07	0.13	11209.12	309.76	-145.13	309.76	10.86	436387.44	784972.06	
11419.00	79.31	0.12	11219.54	355.58	-145.03	355.58	9.02	436433.26	784972.16	
11466.00	83.90	359.77	11226.40	402.06	-145.07	402.06	9.79	436479.74	784972.12	
11513.00	88.88	359.43	11229.36	448.95	-145.40	448.95	10.62	436526.63	784971.79	
11560.00	90.98	359.02	11229.41	495.94	-146.03	495.94	4.55	436573.62	784971.16	
11655.00	91.68	0.46	11227.21	590.92	-146.47	590.92	1.69	436668.60	784970.72	
11749.00	90.14	1.15	11225.72	684.89	-145.15	684.89	1.80	436762.57	784972.04	
11844.00	91.40	0.45	11224.44	779.87	-143.82	779.87	1.52	436857.55	784973.37	
11937.00	89.44	1.06	11223.76	872.85	-142.59	872.85	2.21	436950.53	784974.60	
12032.00	91.68	1.26	11222.83	967.82	-140.67	967.82	2.37	437045.50	784976.52	
12127.00	90.91	1.59	11220.68	1062.77	-138.31	1062.77	0.88	437140.45	784978.88	
12222.00	91.40	1.75	11218.77	1157.71	-135.54	1157.71	0.54	437235.39	784981.65	
12245.00	92.10	1.95	11218.07	1180.69	-134.80	1180.69	3.17	437258.37	784982.39	
12340.00	90.42	1.40	11215.98	1275.62	-132.02	1275.62	1.86	437353.30	784985.17	
12435.00	89.09	1.42	11216.38	1370.59	-129.68	1370.59	1.40	437448.27	784987.51	
12529.00	89.65	1.56	11217.42	1464.55	-127.24	1464.55	0.61	437542.23	784989.95	
12624.00	89.86	2.13	11217.82	1559.50	-124.18	1559.50	0.64	437637.18	784993.01	
12718.00	89.02	1.65	11218.74	1653.44	-121.08	1653.44	1.03	437731.12	784996.11	
12813.00	88.81	0.38	11220.54	1748.41	-119.40	1748.41	1.35	437826.09	784997.79	
12907.00	89.44	359.70	11221.98	1842.40	-119.33	1842.40	0.99	437920.08	784997.86	
13002.00	90.91	359.04	11221.69	1937.39	-120.38	1937.39	1.70	438015.07	784996.81	
13097.00	90.91	358.98	11220.18	2032.36	-122.02	2032.36	0.06	438110.04	784995.17	
13192.00	90.28	358.96	11219.19	2127.34	-123.73	2127.34	0.66	438205.02	784993.46	
13286.00	91.19	358.87	11217.98	2221.31	-125.51	2221.31	0.97	438298.99	784991.68	
13380.00	90.98	359.33	11216.20	2315.29	-126.98	2315.29	0.54	438392.97	784990.21	
13475.00	90.77	359.74	11214.75	2410.27	-127.75	2410.27	0.48	438487.95	784989.44	
13570.00	90.35	0.16	11213.82	2505.27	-127.84	2505.27	0.63	438582.95	784989.35	
13664.00	90.63	358.99	11213.02	2599.26	-128.53	2599.26	1.28	438676.94	784988.66	
13759.00	91.75	358.10	11211.05	2694.21	-130.95	2694.21	1.51	438771.89	784986.24	
13853.00	91.33	357.98	11208.52	2788.12	-134.16	2788.12	0.46	438865.80	784983.03	
13948.00	90.98	357.78	11206.61	2883.03	-137.67	2883.03	0.42	438960.71	784979.52	
14042.00	91.54	357.90	11204.54	2976.94	-141.22	2976.94	0.61	439054.62	784975.97	
14137.00	91.47	358.07	11202.04	3071.85	-144.55	3071.85	0.19	439149.53	784972.64	
14232.00	91.61	358.14	11199.49	3166.76	-147.69	3166.76	0.16	439244.44	784969.50	
14326.00	91.12	358.47	11197.25	3260.70	-150.47	3260.70	0.63	439338.38	784966.72	
14421.00	90.70	358.25	11195.74	3355.64	-153.19	3355.64	0.50	439433.32	784964.00	
14516.00	90.63	358.56	11194.64	3450.60	-155.84	3450.60	0.33	439528.28	784961.35	
14610.00	90.56	358.65	11193.66	3544.57	-158.13	3544.57	0.12	439622.25	784959.06	
14705.00	90.14	358.14	11193.08	3639.53	-160.79	3639.53	0.70	439717.21	784956.40	
14800.00	89.51	358.10	11193.37	3734.48	-163.90	3734.48	0.66	439812.16	784953.29	
14894.00	89.93	358.56	11193.83	3828.44	-166.64	3828.44	0.66	439906.12	784950.55	
14989.00	90.35	359.55	11193.60	3923.42	-168.21	3923.42	1.13	440001.10	784948.98	
15083.00	91.05	359.65	11192.45	4017.41	-168.86	4017.41	0.75	440095.09	784948.33	
15178.00	90.63	359.87	11191.06	4112.40	-169.26	4112.40	0.50	440190.08	784947.93	
15273.00	91.05	359.76	11189.67	4207.39	-169.57	4207.39	0.46	440285.07	784947.62	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
True (US ft)	Inc (ft)	At (ft)	TVD (US ft)	North (US ft)	East (US ft)	VS (US ft)	Dis (LogUS ft)	North (US ft)	East (US ft)	Comment
15367.00	91.26	359.71	11187.77	4301.37	-170.00	4301.37	0.23	440379.05	784947.19	
15462.00	90.56	359.24	11186.26	4396.35	-170.87	4396.35	0.89	440474.03	784946.32	
15557.00	91.19	359.31	11184.81	4491.33	-172.08	4491.33	0.67	440569.01	784945.11	
15651.00	92.66	0.11	11181.66	4585.27	-172.55	4585.27	1.78	440662.95	784944.64	
15746.00	92.45	0.56	11177.42	4680.18	-172.00	4680.18	0.52	440757.86	784945.19	
15841.00	90.07	0.73	11175.33	4775.14	-170.93	4775.14	2.51	440852.82	784946.26	
15936.00	90.42	0.58	11174.93	4870.14	-169.84	4870.14	0.40	440947.82	784947.35	
16030.00	90.07	0.34	11174.52	4964.13	-169.09	4964.13	0.45	441041.81	784948.10	
16125.00	90.07	0.40	11174.41	5059.13	-168.47	5059.13	0.06	441136.81	784948.72	
16220.00	89.02	0.43	11175.16	5154.12	-167.79	5154.12	1.11	441231.80	784949.40	
16314.00	88.18	0.47	11177.46	5248.09	-167.05	5248.09	0.89	441325.77	784950.14	
16409.00	88.95	359.83	11179.84	5343.06	-166.80	5343.06	1.05	441420.74	784950.39	
16503.00	90.00	359.50	11180.70	5437.05	-167.35	5437.05	1.17	441514.73	784949.84	
16598.00	91.33	359.60	11179.60	5532.04	-168.10	5532.04	1.40	441609.72	784949.09	
16692.00	91.54	359.42	11177.24	5626.01	-168.90	5626.01	0.29	441703.69	784948.29	
16787.00	90.63	358.60	11175.44	5720.97	-170.54	5720.97	1.29	441798.65	784946.65	
16881.00	90.91	358.37	11174.18	5814.93	-173.02	5814.93	0.39	441892.61	784944.17	
16975.00	92.59	359.10	11171.31	5908.86	-175.10	5908.86	1.95	441986.54	784942.09	
17070.00	93.43	359.38	11166.32	6003.72	-176.36	6003.72	0.93	442081.40	784940.83	
17165.00	92.10	359.90	11161.74	6098.61	-176.95	6098.61	1.50	442176.29	784940.24	
17259.00	90.63	0.61	11159.50	6192.58	-176.54	6192.58	1.74	442270.26	784940.65	
17353.00	89.93	359.88	11159.04	6286.57	-176.13	6286.57	1.08	442364.25	784941.06	
17448.00	89.30	359.09	11159.68	6381.57	-176.99	6381.57	1.06	442459.25	784940.20	
17543.00	90.63	359.52	11159.74	6476.56	-178.14	6476.56	1.47	442554.24	784939.05	
17637.00	91.75	0.14	11157.78	6570.53	-178.42	6570.53	1.36	442648.21	784938.77	
17732.00	91.82	1.97	11154.83	6665.47	-176.67	6665.47	1.93	442743.15	784940.52	
17826.00	90.77	2.15	11152.70	6759.38	-173.29	6759.38	1.13	442837.06	784943.90	
17920.00	90.14	2.12	11151.95	6853.31	-169.79	6853.31	0.67	442930.99	784947.40	
18015.00	89.37	0.70	11152.36	6948.28	-167.45	6948.28	1.70	443025.96	784949.74	
18109.00	90.14	0.19	11152.76	7042.28	-166.72	7042.28	0.98	443119.96	784950.47	
18204.00	89.51	359.30	11153.05	7137.27	-167.15	7137.27	1.15	443214.95	784950.04	
18298.00	92.03	0.20	11151.79	7231.25	-167.56	7231.25	2.85	443308.93	784949.63	
18393.00	91.82	0.65	11148.60	7326.20	-166.85	7326.20	0.52	443403.88	784950.34	
18488.00	92.45	0.61	11145.06	7421.13	-165.81	7421.13	0.66	443498.81	784951.38	
18583.00	92.87	0.68	11140.65	7516.02	-164.74	7516.02	0.45	443593.70	784952.45	
18677.00	93.57	0.03	11135.37	7609.87	-164.16	7609.87	1.02	443687.55	784953.03	
18772.00	93.36	359.65	11129.63	7704.69	-164.42	7704.69	0.46	443782.37	784952.77	
18866.00	92.45	358.60	11124.86	7798.56	-165.86	7798.56	1.48	443876.24	784951.33	
18961.00	91.89	358.39	11121.27	7893.46	-168.35	7893.46	0.63	443971.14	784948.84	
19047.00	90.98	357.28	11119.11	7979.37	-171.60	7979.37	1.67	444057.05	784945.59	
19141.00	90.70	356.90	11117.74	8073.23	-176.37	8073.23	0.50	444150.91	784940.82	
19245.00	89.86	357.61	11117.23	8177.11	-181.35	8177.11	1.06	444254.79	784935.84	
19339.00	89.65	359.06	11117.63	8271.07	-184.08	8271.07	1.56	444348.75	784933.11	
19434.00	89.09	359.02	11118.67	8366.05	-185.67	8366.05	0.59	444443.73	784931.52	
19528.00	88.81	359.11	11120.40	8460.02	-187.21	8460.02	0.31	444537.70	784929.98	
19622.00	87.76	358.93	11123.21	8553.96	-188.81	8553.96	1.13	444631.64	784928.38	
19717.00	88.46	359.22	11126.34	8648.90	-190.35	8648.90	0.80	444726.58	784926.84	
19812.00	88.32	359.23	11129.01	8743.85	-191.63	8743.85	0.15	444821.53	784925.56	
19907.00	88.81	359.67	11131.39	8838.82	-192.54	8838.82	0.69	444916.50	784924.65	
20001.00	88.88	359.60	11133.29	8932.80	-193.14	8932.80	0.11	445010.48	784924.05	
20096.00	91.89	1.13	11132.65	9027.78	-192.54	9027.78	3.55	445105.46	784924.65	
20191.00	92.03	0.57	11129.40	9122.71	-191.13	9122.71	0.61	445200.39	784926.06	
20286.00	89.93	0.33	11127.77	9217.69	-190.38	9217.69	2.22	445295.37	784926.81	
20380.00	89.44	359.73	11128.29	9311.69	-190.33	9311.69	0.82	445389.37	784926.86	
20475.00	89.44	359.72	11129.22	9406.68	-190.79	9406.68	0.01	445484.36	784926.40	
20570.00	89.09	359.44	11130.44	9501.67	-191.48	9501.67	0.47	445579.35	784925.71	
20665.00	90.00	0.07	11131.19	9596.67	-191.89	9596.67	1.17	445674.35	784925.30	
20759.00	89.16	0.52	11131.88	9690.66	-191.41	9690.66	1.01	445768.34	784925.78	
20854.00	88.25	0.30	11134.03	9785.63	-190.73	9785.63	0.99	445863.31	784926.46	

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)	ZS (US ft)	DLS (1000 US ft)	Northing (US ft)	Easting (US ft)	Comment
20949.00	88.60	0.08	11136.64	9880.60	-190.41	9880.60	0.44	445958.28	784926.78	
21031.00	88.39	359.59	11138.79	9962.57	-190.65	9962.57	0.65	446040.25	784926.54	Last WFT MWD Survey
21094.00	88.39	359.59	11140.56	10025.54	-191.10	10025.54	0.00	446103.22	784926.09	Proj to TD