



Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
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Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: May 11, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 13 2017

Attention: Garrett Glaze

RECEIVED

Re: Devon Energy
Well: Tomb Raider 1-12 Fed 62H
Eddy County, New Mexico

30-015-43889

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
Andrew Schmidt MWD Supervisor	62H	147 MD 20408 MD	03/27/2017 05/06/2017	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 11 day of May, 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



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NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 13 2017

RECEIVED

5D Survey Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Tomb Raider 1-12 Fed 61H, 62H*
Well Name: *Tomb Raider 1-12 Fed 62H*
Survey: *Definitive survey*

8 May 2017



SD Survey Report



Tomb Raider 1-12 Fed 62H

Field Name: Fddy Co. NM (Nad 83 NME)	Map Units: US ft	Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
Site: Tomb Raider 1-12 Fed 61H, 62H	Units: US ft	North Reference: Grid	Convergence Angle: 0.32
	Elevation above MSL: 3453.90 US ft		
	Comment:		
Slot: Tomb Raider 1-12 Fed 62H	Slot TVD Reference: Ground Elevation		
	Elevation above MSL: 3454.20 US ft		
	Comment:		
Well: Tomb Raider 1-12 Fed 62H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 10139.3US ft	Closure Azimuth: 176.16°	
Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: 0.00 US ft +E/-W: 0.00 US ft Az: 178.03°			

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 23.50us ft	Elevation above MSL: 3477.70us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey				
Date: 09/Feb/2017	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:	
Magnetic Model:				
Model Name: bggm2016	Date: 20/Apr/2017	Field Strength: 48114.1nT	Declination: 7.10°	Dip: 60.15°
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	734.00	WFT MWD Svy 1
MWD	734.00	4343.00	WFT MWD Svy 2
MWD	4343.00	8582.00	WFT MWD Svy 3
MWD	8582.00	8713.00	WFT MWD Svy 4

SD Survey Report

Survey Tool Ranges:			
Name	Start MD(USFL)	End MD(USFL)	Source Survey
MWD	8713.00	8918.00	WFT MWD Svy 5
MWD	8918.00	9024.00	WFT MWD Svy 6
MWD	9024.00	9865.00	WFT MWD Svy 7
MWD	9865.00	10728.00	WFT MWD Svy 8
MWD	10728.00	17137.00	WFT MWD Svy 9
MWD	17137.00	20480.00	WFT MWD Svy 10

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (USFL)	TD (USFL)	AT (USFL)	TVD (USFL)	T. Depth (USFL)	L. Offset (USFL)	W. Offset (USFL)	W. Angle (USFL)	W. Angle (USFL)	W. Angle (USFL)	W. Angle (USFL)
0.00	0.00	0.00	-0.00	0.00	0.00	-0.00	0.00	488001.51	725925.83	First WFT Svy
147.00	0.40	76.48	147.00	0.12	0.50	-0.10	0.27	488001.63	725926.33	
238.00	0.50	66.76	238.00	0.35	1.17	-0.31	0.14	488001.86	725927.00	
329.00	0.41	83.16	328.99	0.55	1.86	-0.48	0.17	488002.06	725927.69	
420.00	0.25	75.31	419.99	0.64	2.38	-0.55	0.18	488002.15	725928.21	
511.00	0.47	94.98	510.99	0.65	2.94	-0.55	0.27	488002.16	725928.77	
603.00	0.41	85.47	602.99	0.65	3.64	-0.52	0.10	488002.16	725929.47	
694.00	0.36	83.14	693.99	0.71	4.25	-0.56	0.06	488002.22	725930.08	
734.00	0.35	76.63	733.98	0.75	4.50	-0.59	0.10	488002.26	725930.33	
876.00	0.16	100.34	875.98	0.81	5.11	-0.64	0.15	488002.32	725930.94	
1058.00	0.07	104.43	1057.98	0.74	5.47	-0.55	0.05	488002.25	725931.30	
1240.00	0.20	153.52	1239.98	0.43	5.72	-0.23	0.09	488001.94	725931.55	
1331.00	0.31	149.55	1330.98	0.07	5.92	0.13	0.12	488001.58	725931.75	
1422.00	0.21	211.99	1421.98	-0.28	5.95	0.48	0.31	488001.23	725931.78	
1604.00	0.16	202.18	1603.98	-0.80	5.68	0.99	0.03	488000.71	725931.51	
1790.00	0.16	262.98	1789.98	-1.07	5.32	1.25	0.09	488000.44	725931.15	
1885.00	0.10	140.05	1884.98	-1.15	5.25	1.33	0.24	488000.36	725931.08	
1980.00	0.16	210.26	1979.98	-1.33	5.23	1.51	0.17	488000.18	725931.06	
2074.00	0.16	205.07	2073.98	-1.56	5.11	1.73	0.02	487999.95	725930.94	
2168.00	0.16	130.72	2167.98	-1.76	5.15	1.94	0.21	487999.75	725930.98	
2358.00	0.36	162.36	2357.98	-2.51	5.54	2.69	0.13	487999.00	725931.37	
2547.00	0.50	229.41	2546.97	-3.61	5.09	3.78	0.26	487997.90	725930.92	
2642.00	0.25	202.86	2641.97	-4.07	4.69	4.23	0.31	487997.44	725930.52	
2829.00	0.36	160.97	2828.97	-5.00	4.73	5.16	0.13	487996.51	725930.56	
2923.00	0.30	154.73	2922.97	-5.50	4.93	5.67	0.07	487996.01	725930.76	
3018.00	0.22	176.85	3017.96	-5.91	5.04	6.08	0.13	487995.60	725930.87	
3112.00	0.10	154.31	3111.96	-6.16	5.09	6.33	0.14	487995.35	725930.92	
3207.00	0.31	191.59	3206.96	-6.49	5.07	6.66	0.25	487995.02	725930.90	
3301.00	0.16	176.82	3300.96	-6.87	5.03	7.04	0.17	487994.64	725930.86	
3396.00	0.36	203.91	3395.96	-7.28	4.92	7.44	0.24	487994.23	725930.75	
3490.00	0.41	185.76	3489.96	-7.88	4.76	8.04	0.14	487993.63	725930.59	
3680.00	0.77	150.07	3679.95	-9.66	5.33	9.84	0.26	487991.85	725931.16	
3774.00	1.26	139.86	3773.93	-11.00	6.31	11.21	0.55	487990.51	725932.14	
3869.00	1.28	138.05	3868.91	-12.59	7.70	12.84	0.05	487988.92	725933.53	
4058.00	1.86	138.18	4057.84	-16.44	11.15	16.82	0.31	487985.07	725936.98	
4248.00	2.08	133.90	4247.73	-21.13	15.69	21.66	0.14	487980.38	725941.52	
4343.00	2.52	144.40	4342.65	-24.03	18.15	24.64	0.64	487977.48	725943.98	
4432.00	2.03	130.21	4431.58	-26.63	20.49	27.32	0.83	487974.88	725946.32	
4526.00	2.58	107.10	4525.51	-28.33	23.79	29.13	1.14	487973.18	725949.62	
4621.00	4.07	83.85	4620.35	-28.60	29.18	29.59	2.09	487972.91	725955.01	
4715.00	5.30	68.70	4714.04	-26.66	36.55	27.90	1.85	487974.85	725962.38	
4810.00	6.25	61.90	4808.55	-22.63	45.20	24.17	1.23	487978.88	725971.03	
4905.00	6.43	60.54	4902.97	-17.58	54.39	19.44	0.25	487983.93	725980.22	
4999.00	6.25	61.29	4996.40	-12.54	63.46	14.71	0.21	487988.97	725989.29	
5094.00	6.70	51.77	5090.79	-6.62	72.35	9.11	1.22	487994.89	725998.18	
5188.00	7.01	51.19	5184.12	0.37	81.13	2.42	0.34	488001.88	726006.96	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
PC (US ft)	IN (US ft)	A (US ft)	TVD (US ft)	DLORIN (US ft)	LORIN (US ft)	VS (US ft)	DL (US ft)	Bottom (US ft)	Ending (US ft)	Comment
5283.00	6.58	50.52	5278.45	7.46	89.84	-4.37	0.46	488008.97	726015.67	
5378.00	7.29	47.36	5372.76	15.00	98.48	-11.61	0.85	488016.51	726024.31	
5472.00	7.68	46.78	5465.96	23.34	107.44	-19.64	0.42	488024.85	726033.27	
5567.00	7.33	46.06	5560.14	31.90	116.43	-27.88	0.38	488033.41	726042.26	
5661.00	7.41	45.15	5653.37	40.33	125.05	-36.01	0.15	488041.84	726050.88	
5755.00	7.35	43.53	5746.59	48.97	133.49	-44.35	0.23	488050.48	726059.32	
5849.00	7.23	42.51	5839.83	57.69	141.63	-52.78	0.19	488059.20	726067.46	
5944.00	7.17	46.39	5934.08	66.18	149.96	-60.99	0.52	488067.69	726075.79	
6039.00	7.62	55.04	6028.29	73.88	159.41	-68.36	1.26	488075.39	726085.24	
6133.00	7.03	56.08	6121.53	80.66	169.29	-74.80	0.64	488082.17	726095.12	
6227.00	6.45	55.22	6214.88	86.88	178.40	-80.70	0.63	488088.39	726104.23	
6322.00	6.31	55.61	6309.29	92.88	187.09	-86.39	0.15	488094.39	726112.92	
6417.00	6.48	65.37	6403.70	98.06	196.28	-91.25	1.16	488099.57	726122.11	
6511.00	6.16	65.48	6497.13	102.36	205.69	-95.23	0.34	488103.87	726131.52	
6605.00	5.90	63.50	6590.61	106.61	214.60	-99.17	0.35	488108.12	726140.43	
6700.00	5.75	68.37	6685.12	110.55	223.39	-102.80	0.54	488112.06	726149.22	
6793.00	6.85	86.55	6777.56	112.60	233.26	-104.51	2.43	488114.11	726159.09	
6889.00	7.83	85.28	6872.78	113.48	245.49	-104.97	1.03	488114.99	726171.32	
6983.00	6.93	76.48	6966.00	115.33	257.39	-106.42	1.53	488116.84	726183.22	
7078.00	7.25	77.26	7060.27	117.99	268.81	-108.68	0.35	488119.50	726194.64	
7173.00	5.11	72.69	7154.72	120.57	278.69	-110.92	2.31	488122.08	726204.52	
7267.00	4.92	61.36	7248.36	123.75	286.23	-113.84	1.07	488125.26	726212.06	
7362.00	4.70	61.25	7343.02	127.58	293.22	-117.42	0.23	488129.09	726219.05	
7457.00	4.03	62.67	7437.75	130.98	299.59	-120.61	0.71	488132.49	726225.42	
7551.00	3.73	62.91	7531.53	133.89	305.25	-123.32	0.32	488135.40	726231.08	
7645.00	3.44	63.34	7625.35	136.55	310.49	-125.79	0.31	488138.06	726236.32	
7740.00	3.14	63.30	7720.19	139.00	315.36	-128.07	0.32	488140.51	726241.19	
7835.00	2.52	61.70	7815.08	141.16	319.53	-130.09	0.66	488142.67	726245.36	
7930.00	2.24	63.09	7909.99	142.99	323.02	-131.80	0.30	488144.50	726248.85	
8024.00	1.99	56.86	8003.93	144.71	326.03	-133.42	0.36	488146.22	726251.86	
8119.00	1.46	52.80	8098.89	146.34	328.37	-134.97	0.57	488147.85	726254.20	
8213.00	1.35	49.46	8192.86	147.79	330.17	-136.35	0.15	488149.30	726256.00	
8308.00	0.66	44.27	8287.84	148.91	331.40	-137.43	0.73	488150.42	726257.23	
8403.00	0.49	68.22	8382.84	149.45	332.16	-137.94	0.31	488150.96	726257.99	
8497.00	0.40	34.10	8476.84	149.87	332.72	-138.34	0.29	488151.38	726258.55	
8530.00	0.64	17.20	8509.83	150.14	332.84	-138.61	0.86	488151.65	726258.67	
8545.00	0.78	4.92	8524.83	150.32	332.87	-138.79	1.37	488151.83	726258.70	
8570.00	0.91	8.73	8549.83	150.69	332.91	-139.16	0.57	488152.20	726258.74	
8582.00	0.91	1.67	8561.83	150.88	332.93	-139.34	0.93	488152.39	726258.76	
8622.00	0.90	7.78	8601.82	151.51	332.98	-139.97	0.24	488153.02	726258.81	
8686.00	0.56	12.91	8665.82	152.31	333.12	-140.77	0.54	488153.82	726258.95	
8696.00	0.60	7.62	8675.82	152.41	333.14	-140.87	0.67	488153.92	726258.97	
8713.00	0.49	345.53	8692.82	152.57	333.13	-141.03	1.38	488154.08	726258.96	
8729.00	0.63	349.91	8708.82	152.72	333.10	-141.18	0.91	488154.23	726258.93	
8815.00	0.58	315.97	8794.81	153.50	332.71	-141.97	0.41	488155.01	726258.54	
8823.00	0.55	320.92	8802.81	153.56	332.66	-142.03	0.72	488155.07	726258.49	
8890.00	0.85	316.67	8869.81	154.17	332.12	-142.66	0.45	488155.68	726257.95	
8918.00	0.82	320.61	8897.80	154.47	331.85	-142.98	0.23	488155.98	726257.68	
8941.00	0.91	308.66	8920.80	154.72	331.60	-143.23	0.87	488156.23	726257.43	
8981.00	0.94	309.91	8960.80	155.13	331.10	-143.65	0.09	488156.64	726256.93	
8996.00	0.94	309.96	8975.79	155.28	330.91	-143.82	0.01	488156.79	726256.74	
9011.00	0.91	301.93	8990.79	155.43	330.72	-143.96	0.89	488156.94	726256.55	
9017.00	0.82	293.81	8996.79	155.47	330.64	-144.01	2.53	488156.98	726256.47	
9024.00	0.92	292.07	9003.79	155.51	330.54	-144.05	1.48	488157.02	726256.37	
9074.00	0.88	274.74	9053.78	155.69	329.79	-144.26	0.55	488157.20	726255.62	
9169.00	0.85	265.48	9148.77	155.70	328.36	-144.32	0.15	488157.21	726254.19	
9263.00	1.14	245.48	9242.76	155.25	326.81	-143.93	0.48	488156.76	726252.64	
9357.00	1.48	254.53	9336.73	154.54	324.79	-143.29	0.42	488156.05	726250.62	
9452.00	1.48	256.84	9431.70	153.93	322.41	-142.76	0.06	488155.44	726248.24	

SD Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Point ID	Depth (m)	Depth (ft)	True Vertical Depth (m)	True Vertical Depth (ft)	Horizontal Distance (m)	Horizontal Distance (ft)	Angle (deg)	Angle (deg)	Angle (deg)	Comment
9546.00	1.16	252.70	9525.68	153.38	320.32	-142.27	0.36	488154.89	726246.15	
9641.00	0.95	248.07	9620.66	152.80	318.67	-141.75	0.24	488154.31	726244.50	
9736.00	0.91	254.41	9715.65	152.30	317.22	-141.30	0.12	488153.81	726243.05	
9830.00	0.75	209.56	9809.64	151.56	316.19	-140.60	0.69	488153.07	726242.02	
9865.00	0.73	203.07	9844.64	151.16	315.99	-140.21	0.25	488152.67	726241.82	
9922.00	0.97	193.89	9901.63	150.36	315.74	-139.41	0.48	488151.87	726241.57	
9969.00	6.29	180.23	9948.52	147.39	315.63	-136.46	11.39	488148.90	726241.46	
10017.00	11.61	182.80	9995.92	139.93	315.38	-129.01	11.11	488141.44	726241.21	
10064.00	17.87	183.69	10041.35	128.00	314.69	-117.11	13.33	488129.51	726240.52	
10111.00	23.23	181.44	10085.34	111.53	313.99	-100.67	11.53	488113.04	726239.82	
10158.00	29.51	178.83	10127.43	90.67	313.99	-79.82	13.58	488092.18	726239.82	
10206.00	35.33	177.92	10167.93	64.96	314.74	-54.10	12.17	488066.47	726240.57	
10253.00	41.30	177.32	10204.80	35.86	315.96	-24.97	12.73	488037.37	726241.79	
10302.00	46.19	177.18	10240.18	2.02	317.58	8.89	9.98	488003.53	726243.41	
10349.00	52.18	177.10	10270.89	-33.49	319.36	44.45	12.75	487968.02	726245.19	
10397.00	56.72	175.97	10298.79	-72.46	321.73	83.47	9.65	487929.05	726247.56	
10444.00	61.89	175.20	10322.77	-112.74	324.85	123.84	11.09	487888.77	726250.68	
10492.00	64.63	175.04	10344.37	-155.44	328.49	166.64	5.72	487846.07	726254.32	
10539.00	67.09	174.76	10363.59	-198.16	332.31	209.47	5.26	487803.35	726258.14	
10586.00	70.38	175.14	10380.63	-241.78	336.16	253.20	7.04	487759.73	726261.99	
10633.00	73.56	176.55	10395.18	-286.35	339.39	297.85	7.34	487715.16	726265.22	
10681.00	76.59	177.40	10407.54	-332.66	341.84	344.22	6.54	487668.85	726267.67	
10728.00	80.58	179.02	10416.84	-378.70	343.27	390.28	9.14	487622.81	726269.10	
10801.00	84.54	180.61	10426.29	-451.07	343.50	462.61	5.84	487550.44	726269.33	
10895.00	86.22	180.93	10433.86	-544.75	342.24	556.19	1.82	487456.76	726268.07	
10990.00	87.76	180.32	10438.85	-639.61	341.21	650.96	1.74	487361.90	726267.04	
11082.00	89.23	179.77	10441.27	-731.58	341.14	742.87	1.71	487269.93	726266.97	
11177.00	89.23	179.95	10442.55	-826.57	341.37	837.81	0.19	487174.94	726267.20	
11271.00	90.63	179.68	10442.66	-920.56	341.67	931.77	1.52	487080.95	726267.50	
11366.00	90.49	179.75	10441.73	-1015.56	342.14	1026.72	0.16	486985.95	726267.97	
11461.00	90.00	179.77	10441.33	-1110.56	342.54	1121.68	0.52	486890.95	726268.37	
11555.00	90.00	179.37	10441.33	-1204.55	343.25	1215.64	0.43	486796.96	726269.08	
11649.00	89.58	179.37	10441.67	-1298.55	344.28	1309.61	0.45	486702.96	726270.11	
11742.00	89.09	179.09	10442.75	-1391.53	345.53	1402.59	0.61	486609.98	726271.36	
11837.00	89.23	179.14	10444.14	-1486.51	347.00	1497.56	0.16	486515.00	726272.83	
11932.00	89.02	178.93	10445.59	-1581.49	348.60	1592.53	0.31	486420.02	726274.43	
12026.00	88.95	179.64	10447.26	-1675.46	349.77	1686.50	0.76	486326.05	726275.60	
12120.00	90.35	180.28	10447.83	-1769.46	349.84	1780.44	1.64	486232.05	726275.67	
12215.00	90.14	180.27	10447.43	-1864.46	349.38	1875.36	0.22	486137.05	726275.21	
12310.00	89.86	179.89	10447.43	-1959.46	349.25	1970.30	0.50	486042.05	726275.08	
12405.00	91.40	179.65	10446.38	-2054.45	349.63	2065.25	1.64	485947.06	726275.46	
12499.00	91.82	180.12	10443.74	-2148.41	349.82	2159.16	0.67	485853.10	726275.65	
12594.00	91.05	180.18	10441.36	-2243.38	349.57	2254.07	0.81	485758.13	726275.40	
12689.00	90.77	179.62	10439.85	-2338.37	349.74	2349.01	0.66	485663.14	726275.57	
12783.00	90.70	179.66	10438.65	-2432.36	350.33	2442.96	0.09	485569.15	726276.16	
12879.00	89.30	179.97	10438.65	-2528.35	350.64	2538.91	1.49	485473.16	726276.47	
12973.00	89.23	180.03	10439.85	-2622.35	350.64	2632.85	0.10	485379.16	726276.47	
13068.00	89.44	179.92	10440.96	-2717.34	350.68	2727.79	0.25	485284.17	726276.51	
13163.00	89.58	180.16	10441.77	-2812.34	350.61	2822.73	0.29	485189.17	726276.44	
13259.00	89.79	180.16	10442.30	-2908.33	350.34	2918.66	0.22	485093.18	726276.17	
13354.00	90.00	179.93	10442.47	-3003.33	350.27	3013.60	0.33	484998.18	726276.10	
13448.00	89.65	178.86	10442.76	-3097.33	351.26	3107.57	1.20	484904.18	726277.09	
13543.00	90.42	179.01	10442.70	-3192.31	353.03	3202.56	0.83	484809.20	726278.86	
13638.00	89.65	178.90	10442.64	-3287.29	354.76	3297.54	0.82	484714.22	726280.59	
13733.00	89.65	178.53	10443.22	-3382.27	356.89	3392.54	0.39	484619.24	726282.72	
13827.00	89.51	178.62	10443.91	-3476.23	359.23	3486.53	0.18	484525.28	726285.06	
13922.00	90.77	178.86	10443.68	-3571.21	361.32	3581.52	1.35	484430.30	726287.15	
14016.00	90.91	179.23	10442.30	-3665.19	362.88	3675.49	0.42	484336.32	726288.71	
14111.00	89.93	179.35	10441.60	-3760.17	364.06	3770.47	1.04	484241.34	726289.89	

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)		T100m		T200m		T300m		T400m		T500m		T600m		T700m		T800m		T900m		T1000m		T1100m		T1200m		T1300m		T1400m		T1500m		T1600m		T1700m		T1800m		T1900m		T2000m																																																																																						
14205.00	89.58	179.34	10442.01	-3854.17	365.13	364.44	484147.34	726290.96	726290.96	484052.35	0.10	0.10	483958.36	726293.02	483863.36	726293.56	483769.37	726293.40	483674.39	726293.08	483580.41	726294.18	483485.45	726297.03	483390.55	726301.30	483296.72	726306.85	483201.90	726312.63	483108.07	726318.12	483013.22	726323.51	482919.36	726328.52	482824.49	726333.45	482730.64	726338.82	482635.81	726344.24	482542.95	726349.18	482449.09	726354.32	482355.25	726359.73	482260.42	726365.51	482165.68	726372.41	482070.96	726379.71	481977.21	726386.42	481882.45	726393.16	481787.70	726399.99	481692.95	726406.90	481598.21	726413.83	481503.52	726421.33	481408.84	726429.11	481315.13	726436.48	481220.51	726444.88	481128.91	726453.41	726461.72	481034.28	726468.73	480940.55	726474.35	726478.49	480856.85	726480.78	480761.81	726482.32	480665.90	726483.48	480570.90	726484.84	480476.91	726486.39	480381.96	726488.10	479993.31	726497.90	479898.52	726504.17	729802.77	479802.77	1.47	1.47	8308.83	479708.05	726515.47	726520.03	479614.36	726523.83	479519.59	726523.04	479423.74	726523.82	479328.83	726523.82	479234.85	726524.66	479140.85	726525.58	479044.88	726526.58	478949.99	726529.81	478855.15	726534.45	478761.42	726540.81	726548.92	14205.00

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
TID (US ft)	Inc (°)	Adj (°)	TVD (US ft)	True Horiz (US ft)	True Vert (US ft)	VS (US ft)	D.S. 100US ft	Bottom (US ft)	Ending (US ft)	Comment
19791.00	93.71	175.24	10399.59	-9430.03	631.67	9446.17	0.87	478571.48	726557.50	
19886.00	94.13	175.39	10393.10	-9524.49	639.42	9540.85	0.47	478477.02	726565.25	
19980.00	93.29	175.68	10387.01	-9618.01	646.72	9634.56	0.95	478383.50	726572.55	
20075.00	92.94	176.00	10381.85	-9712.62	653.60	9729.35	0.50	478288.89	726579.43	
20170.00	92.24	176.03	10377.56	-9807.29	660.19	9824.19	0.74	478194.22	726586.02	
20265.00	91.61	176.23	10374.37	-9902.02	666.60	9919.09	0.70	478099.49	726592.43	
20359.00	91.61	176.93	10371.73	-9995.82	672.21	10013.02	0.74	478005.69	726598.04	
20408.00	91.54	176.91	10370.38	-10044.73	674.84	10061.99	0.15	477956.78	726600.67	Last Svy
20480.00	91.54	176.91	10368.45	-10116.60	678.72	10133.95	0.00	477884.91	726604.55	Proj to TD