



Weatherford

Evaluation, Drilling & Intervention
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Devon Energy
333 W. Sheridan Ave
Oklahoma City, OK, 73102

Date: January 20, 2017

Attention: Garrett Glaze

HOBBS OCD

Re: Devon Energy
Well: Thistle Unit 254H
Lea County, New Mexico

OCT 20 2017

RECEIVED

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:

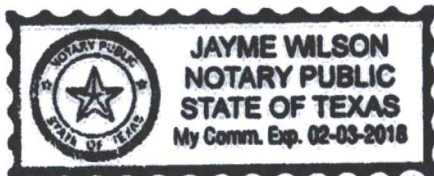
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Andrew Schmidt MWD Supervisor	254H	136 MD 17294 MD	1/31/2017 2/13/2017	Measurement While Drilling

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 29th day of March, 20 17, 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:** *Thistle Unit 254H***Well Name:** *Thistle Unit 254H***Survey:** *Definitive survey*

14 February 2017



Slot: Thistle Unit 254H

Position:

Offset is from Site centre

Northing: 457211.47USft Latitude: 32.254576
Easting: 781015.05USft Longitude: -103.55801
Elevation Above VRD: 3643.30USft

Well: Thistle Unit 254H

Type: Main-Well

File Number:

Folder: P3

Plan: P3:V1

Position offset of origin from Slot centre:

-S: 0.00USft Azimuth: 0.35°

+E/-W: -0.00USft

Magnetic Parameters:

Magnetic Strength: Declination: Dip: Date:
95(nT) 7.04° 60.11° 2017-01-30

Plan Data for Thistle Unit 254H

Target Set Information:

Name: Thistle Unit 254H Tgts

Position offsets from Slot centre

TVD	Elevation	+N/-S	+E/-W	Northing	Easting
(ft)	(USft)	(USft)	(USft)	(USft)	(USft)
0.00	-6058.20	7670.85	40.74	464882.32	781055.79



Thistle Unit 254H

Field Name: Lea Co, NM Nad 83 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: Thistle Unit 254H	Units: US ft	North Reference: Grid	Convergence Angle: 0.41	
	Position:	Northing: 457211.47 US ft	Latitude: 32° 15' 16.45"	
		Easting: 781015.05 US ft	Longitude: -103° 33' 28.84"	
	Elevation above MSL:3643.30 US ft		Comment:	
Slot: Thistle Unit 254H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 457211.47 US ft	Latitude: 32°15'16.45"	
	+E/-W: 0.00 US ft	Easting: 781015.05 US ft	Longitude: -103°33'28.84"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3643.30 US ft			
	Comment:			
Well: Thistle Unit 254H	Type:Main well	UWI:		
	File Number:	Comment:		
	Closure Distance:7711.22US ft		Closure Azimuth:0.35°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: -0.00 US ft	
Az: 0.35°				

Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 23.50us ft	Elevation above MSL: 3666.80us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey			
Date: 03/Nov/2016	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
Magnetic Model:			
Model Name: bggm2016	Date: 30/Jan/2017	Field Strength: 48095.2nT	Declination: 7.04° Dip: 60.11°
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	1306.00	WFT MWD Svy 1
MWD	1306.00	5048.00	WFT MWD Svy 2
MWD	5048.00	9058.00	WFT MWD Svy 3
MWD	9058.00	9841.00	WFT MWD Svy 4

5D Survey Report

Survey Tool Ranges:			
Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD	9841.00	15633.00	WFT MWD Svy 5
MWD	15633.00	17364.00	WFT MWD Svy 6

Wellpath 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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	457211.47	781015.05	First WFT Svy
136.00	0.80	10.73	136.00	0.93	0.18	0.93	0.59	457212.40	781015.23	
198.00	0.91	16.35	197.99	1.83	0.40	1.83	0.22	457213.30	781015.45	
290.00	1.20	17.02	289.97	3.45	0.88	3.46	0.32	457214.92	781015.93	
390.00	1.11	19.96	389.95	5.36	1.52	5.37	0.11	457216.83	781016.57	
482.00	0.94	22.51	481.94	6.90	2.11	6.91	0.19	457218.37	781017.16	
574.00	0.66	28.07	573.93	8.06	2.65	8.08	0.32	457219.53	781017.70	
666.00	0.47	37.22	665.92	8.83	3.13	8.85	0.23	457220.30	781018.18	
758.00	0.25	79.15	757.92	9.17	3.56	9.19	0.36	457220.64	781018.61	
849.00	0.25	53.48	848.92	9.33	3.91	9.35	0.12	457220.80	781018.96	
941.00	0.22	58.66	940.92	9.54	4.22	9.56	0.04	457221.01	781019.27	
1032.00	0.20	28.32	1031.92	9.77	4.45	9.79	0.12	457221.24	781019.50	
1123.00	0.22	10.29	1122.92	10.08	4.55	10.11	0.08	457221.55	781019.60	
1215.00	0.07	317.97	1214.92	10.29	4.55	10.32	0.20	457221.76	781019.60	
1306.00	0.10	29.61	1305.92	10.41	4.55	10.43	0.11	457221.88	781019.60	
1432.00	0.16	304.84	1431.92	10.60	4.46	10.63	0.14	457222.07	781019.51	
1524.00	0.36	265.50	1523.92	10.65	4.07	10.68	0.28	457222.12	781019.12	
1617.00	0.51	266.23	1616.92	10.60	3.36	10.62	0.16	457222.07	781018.41	
1712.00	0.63	233.60	1711.91	10.26	2.52	10.28	0.36	457221.73	781017.57	
1806.00	1.13	199.94	1805.90	9.09	1.79	9.10	0.74	457220.56	781016.84	
1900.00	1.34	194.56	1899.88	7.15	1.19	7.16	0.25	457218.62	781016.24	
1995.00	1.35	188.20	1994.85	4.97	0.76	4.97	0.16	457216.44	781015.81	
2089.00	1.11	187.60	2088.83	2.97	0.48	2.97	0.26	457214.44	781015.53	
2183.00	1.13	191.43	2182.81	1.16	0.17	1.16	0.08	457212.63	781015.22	
2278.00	0.99	195.81	2277.80	-0.55	-0.24	-0.55	0.17	457210.92	781014.81	
2373.00	0.93	194.43	2372.78	-2.09	-0.65	-2.09	0.07	457209.38	781014.40	
2468.00	0.85	197.05	2467.77	-3.51	-1.05	-3.51	0.09	457207.96	781014.00	
2562.00	1.24	188.08	2561.76	-5.18	-1.40	-5.19	0.45	457206.29	781013.65	
2657.00	1.20	190.26	2656.73	-7.18	-1.72	-7.19	0.06	457204.29	781013.33	
2751.00	1.51	180.18	2750.71	-9.38	-1.90	-9.39	0.41	457202.09	781013.15	
2846.00	1.70	177.51	2845.67	-12.04	-1.84	-12.05	0.21	457199.43	781013.21	
2940.00	1.55	170.82	2939.63	-14.69	-1.58	-14.70	0.26	457196.78	781013.47	
3035.00	1.81	182.89	3034.59	-17.46	-1.45	-17.47	0.46	457194.01	781013.60	
3130.00	1.77	188.29	3129.55	-20.41	-1.74	-20.42	0.18	457191.06	781013.31	
3224.00	1.71	184.39	3223.50	-23.24	-2.05	-23.25	0.14	457188.23	781013.00	
3319.00	1.73	186.56	3318.46	-26.08	-2.33	-26.09	0.07	457185.39	781012.72	
3414.00	1.38	182.28	3413.42	-28.65	-2.53	-28.66	0.39	457182.82	781012.52	
3508.00	1.32	189.13	3507.40	-30.85	-2.75	-30.86	0.18	457180.62	781012.30	
3603.00	1.12	183.79	3602.38	-32.85	-2.99	-32.87	0.24	457178.62	781012.06	
3697.00	1.02	183.80	3696.36	-34.61	-3.10	-34.62	0.11	457176.86	781011.95	
3792.00	0.80	178.05	3791.35	-36.11	-3.14	-36.13	0.25	457175.36	781011.91	
3887.00	0.70	162.72	3886.34	-37.33	-2.94	-37.35	0.24	457174.14	781012.11	
3981.00	0.70	170.08	3980.33	-38.44	-2.67	-38.46	0.10	457173.03	781012.38	
4076.00	0.70	163.09	4075.33	-39.57	-2.40	-39.58	0.09	457171.90	781012.65	
4171.00	0.91	189.30	4170.32	-40.87	-2.36	-40.88	0.44	457170.60	781012.69	
4265.00	0.56	158.14	4264.31	-42.03	-2.31	-42.05	0.55	457169.44	781012.74	
4360.00	0.90	152.38	4359.30	-43.13	-1.79	-43.14	0.37	457168.34	781013.26	
4455.00	1.51	156.23	4454.28	-44.93	-0.94	-44.94	0.65	457166.54	781014.11	
4550.00	2.04	160.82	4549.23	-47.67	0.12	-47.67	0.58	457163.80	781015.17	
4644.00	1.97	157.46	4643.18	-50.75	1.29	-50.74	0.15	457160.72	781016.34	

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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4739.00	1.88	158.71	4738.12	-53.71	2.48	-53.69	0.10	457157.76	781017.53	
4833.00	2.33	161.21	4832.06	-56.95	3.66	-56.93	0.49	457154.52	781018.71	
4928.00	2.57	160.76	4926.97	-60.79	4.98	-60.76	0.25	457150.68	781020.03	
5022.00	2.53	158.66	5020.88	-64.71	6.43	-64.67	0.11	457146.76	781021.48	
5048.00	2.32	157.86	5046.86	-65.74	6.84	-65.69	0.82	457145.73	781021.89	
5210.00	1.95	154.63	5208.74	-71.26	9.26	-71.21	0.24	457140.21	781024.31	
5305.00	1.82	176.52	5303.69	-74.23	10.04	-74.17	0.77	457137.24	781025.09	
5399.00	1.98	198.72	5397.64	-77.26	9.61	-77.20	0.80	457134.21	781024.66	
5494.00	2.19	204.37	5492.58	-80.47	8.33	-80.41	0.31	457131.00	781023.38	
5589.00	2.33	185.13	5587.51	-84.04	7.41	-84.00	0.81	457127.43	781022.46	
5683.00	2.47	180.24	5681.43	-87.97	7.23	-87.92	0.26	457123.50	781022.28	
5778.00	2.31	178.01	5776.34	-91.93	7.29	-91.88	0.19	457119.54	781022.34	
5872.00	2.35	183.63	5870.27	-95.75	7.24	-95.70	0.25	457115.72	781022.29	
5966.00	2.30	177.46	5964.19	-99.56	7.20	-99.51	0.27	457111.91	781022.25	
6061.00	2.41	175.95	6059.11	-103.45	7.42	-103.40	0.13	457108.02	781022.47	
6156.00	2.24	180.25	6154.03	-107.30	7.56	-107.25	0.26	457104.17	781022.61	
6250.00	2.11	176.01	6247.96	-110.86	7.67	-110.82	0.22	457100.61	781022.72	
6345.00	2.03	177.23	6342.90	-114.29	7.87	-114.24	0.10	457097.18	781022.92	
6439.00	2.03	181.84	6436.84	-117.62	7.90	-117.57	0.17	457093.85	781022.95	
6534.00	2.04	180.07	6531.78	-120.99	7.84	-120.94	0.07	457090.48	781022.89	
6629.00	2.18	179.17	6626.72	-124.49	7.87	-124.44	0.15	457086.98	781022.92	
6723.00	2.05	184.61	6720.65	-127.95	7.76	-127.90	0.25	457083.52	781022.81	
6818.00	2.01	181.95	6815.59	-131.31	7.56	-131.26	0.11	457080.16	781022.61	
6912.00	2.04	178.22	6909.53	-134.63	7.56	-134.58	0.14	457076.84	781022.61	
7007.00	1.96	186.57	7004.48	-137.93	7.43	-137.88	0.32	457073.54	781022.48	
7102.00	1.97	186.84	7099.42	-141.17	7.05	-141.12	0.01	457070.30	781022.10	
7196.00	1.97	187.20	7193.37	-144.37	6.65	-144.33	0.01	457067.10	781021.70	
7291.00	1.99	189.41	7288.31	-147.62	6.18	-147.58	0.08	457063.85	781021.23	
7386.00	1.90	190.28	7383.25	-150.80	5.63	-150.76	0.10	457060.67	781020.68	
7481.00	2.02	196.14	7478.20	-153.96	4.88	-153.92	0.25	457057.51	781019.93	
7575.00	2.23	193.41	7572.13	-157.33	3.99	-157.30	0.25	457054.14	781019.04	
7670.00	2.33	182.66	7667.06	-161.05	3.48	-161.03	0.46	457050.42	781018.53	
7764.00	2.01	175.68	7760.99	-164.61	3.51	-164.58	0.44	457046.86	781018.56	
7859.00	2.10	178.38	7855.93	-168.01	3.69	-167.98	0.14	457043.46	781018.74	
7953.00	2.38	181.46	7949.86	-171.68	3.69	-171.65	0.32	457039.79	781018.74	
8048.00	2.31	178.09	8044.78	-175.57	3.70	-175.54	0.16	457035.90	781018.75	
8143.00	2.07	179.62	8139.71	-179.20	3.77	-179.17	0.26	457032.27	781018.82	
8237.00	2.17	182.44	8233.65	-182.67	3.71	-182.64	0.15	457028.80	781018.76	
8332.00	2.35	185.72	8328.57	-186.41	3.44	-186.38	0.23	457025.06	781018.49	
8426.00	2.38	191.73	8422.49	-190.23	2.85	-190.21	0.27	457021.24	781017.90	
8521.00	1.73	198.56	8517.43	-193.53	1.99	-193.51	0.73	457017.94	781017.04	
8616.00	1.76	195.70	8612.39	-196.29	1.14	-196.28	0.10	457015.18	781016.19	
8711.00	1.82	192.82	8707.34	-199.16	0.41	-199.16	0.11	457012.31	781015.46	
8806.00	1.59	195.24	8802.30	-201.91	-0.27	-201.90	0.25	457009.56	781014.78	
8900.00	1.59	199.05	8896.26	-204.40	-1.04	-204.40	0.11	457007.07	781014.01	
8994.00	1.46	197.41	8990.23	-206.77	-1.82	-206.78	0.15	457004.70	781013.23	
9058.00	1.37	201.33	9054.21	-208.26	-2.34	-208.27	0.21	457003.21	781012.71	
9087.00	1.23	191.55	9083.20	-208.89	-2.53	-208.90	0.90	457002.58	781012.52	
9134.00	1.17	28.40	9130.20	-208.96	-2.41	-208.97	5.05	457002.51	781012.64	
9181.00	6.30	21.02	9177.08	-206.13	-1.25	-206.14	10.94	457005.34	781013.80	
9228.00	12.44	15.06	9223.43	-198.83	0.99	-198.82	13.21	457012.64	781016.04	
9276.00	16.65	11.48	9269.89	-187.09	3.70	-187.07	8.96	457024.38	781018.75	
9323.00	21.06	8.38	9314.35	-172.13	6.28	-172.09	9.62	457039.34	781021.33	
9371.00	25.25	6.96	9358.48	-153.43	8.78	-153.37	8.81	457058.04	781023.83	
9418.00	30.41	7.07	9400.03	-131.66	11.46	-131.59	10.98	457079.81	781026.51	
9465.00	35.26	6.99	9439.51	-106.37	14.57	-106.28	10.32	457105.10	781029.62	
9512.00	40.45	6.29	9476.60	-77.73	17.90	-77.62	11.08	457133.74	781032.95	
9559.00	44.86	5.32	9511.16	-46.06	21.11	-45.93	9.49	457165.41	781036.16	
9606.00	48.74	4.43	9543.33	-11.93	24.01	-11.78	8.37	457199.54	781039.06	

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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
9654.00	53.50	4.00	9573.45	25.33	26.75	25.49	9.94	457236.80	781041.80	
9701.00	58.89	4.26	9599.59	64.27	29.56	64.44	11.48	457275.74	781044.61	
9748.00	64.53	4.70	9621.86	105.51	32.80	105.71	12.03	457316.98	781047.85	
9795.00	70.67	5.88	9639.76	148.75	36.81	148.98	13.27	457360.22	781051.86	
9841.00	77.08	3.90	9652.53	192.76	40.57	193.00	14.53	457404.23	781055.62	
9864.00	80.01	3.16	9657.10	215.26	41.95	215.51	13.12	457426.73	781057.00	
9901.00	83.62	0.93	9662.36	251.85	43.26	252.11	11.44	457463.32	781058.31	
9959.00	84.04	0.79	9668.60	309.50	44.12	309.77	0.76	457520.97	781059.17	
10006.00	83.90	0.40	9673.53	356.24	44.61	356.51	0.88	457567.71	781059.66	
10053.00	86.36	358.78	9677.52	403.07	44.27	403.33	6.26	457614.54	781059.32	
10147.00	88.53	357.78	9681.72	496.92	41.45	497.17	2.54	457708.39	781056.50	
10242.00	87.76	357.42	9684.79	591.79	37.48	592.01	0.89	457803.26	781052.53	
10337.00	88.74	357.21	9687.69	686.64	33.03	686.83	1.05	457898.11	781048.08	
10431.00	89.30	357.14	9689.30	780.51	28.39	780.67	0.60	457991.98	781043.44	
10526.00	89.65	356.80	9690.17	875.37	23.37	875.50	0.51	458086.84	781038.42	
10620.00	91.12	357.96	9689.54	969.27	19.08	969.37	1.99	458180.74	781034.13	
10715.00	90.98	357.81	9687.80	1064.19	15.57	1064.26	0.22	458275.66	781030.62	
10810.00	90.14	358.51	9686.87	1159.13	12.52	1159.19	1.15	458370.60	781027.57	
10905.00	90.56	358.97	9686.29	1254.11	10.43	1254.15	0.66	458465.58	781025.48	
11000.00	89.65	359.69	9686.11	1349.10	9.32	1349.13	1.22	458560.57	781024.37	
11094.00	89.65	0.31	9686.69	1443.10	9.32	1443.13	0.66	458654.57	781024.37	
11188.00	89.02	0.08	9687.78	1537.09	9.64	1537.12	0.71	458748.56	781024.69	
11282.00	88.39	0.15	9689.90	1631.07	9.83	1631.10	0.67	458842.54	781024.88	
11377.00	87.97	359.92	9692.92	1726.02	9.89	1726.05	0.50	458937.49	781024.94	
11472.00	88.46	0.01	9695.88	1820.97	9.83	1821.00	0.52	459032.44	781024.88	
11566.00	88.46	0.00	9698.41	1914.94	9.84	1914.96	0.01	459126.41	781024.89	
11660.00	88.25	359.57	9701.10	2008.90	9.49	2008.92	0.51	459220.37	781024.54	
11755.00	88.95	358.71	9703.43	2103.86	8.06	2103.87	1.17	459315.33	781023.11	
11850.00	89.44	358.46	9704.76	2198.82	5.71	2198.81	0.58	459410.29	781020.76	
11944.00	89.79	358.90	9705.39	2292.79	3.55	2292.77	0.60	459504.26	781018.60	
12039.00	90.14	357.97	9705.45	2387.75	0.95	2387.72	1.05	459599.22	781016.00	
12134.00	90.91	357.84	9704.58	2482.69	-2.52	2482.62	0.82	459694.16	781012.53	
12229.00	90.14	358.19	9703.71	2577.62	-5.81	2577.54	0.89	459789.09	781009.24	
12324.00	89.37	358.76	9704.12	2672.59	-8.34	2672.49	1.01	459884.06	781006.71	
12418.00	90.49	359.82	9704.23	2766.58	-9.50	2766.47	1.64	459978.05	781005.55	
12512.00	90.98	359.51	9703.02	2860.57	-10.05	2860.45	0.62	460072.04	781005.00	
12607.00	90.56	0.39	9701.75	2955.56	-10.13	2955.44	1.03	460167.03	781004.92	
12702.00	90.49	0.50	9700.88	3050.55	-9.40	3050.44	0.14	460262.02	781005.65	
12796.00	90.70	0.29	9699.90	3144.54	-8.75	3144.43	0.32	460356.01	781006.30	
12891.00	90.28	1.19	9699.09	3239.53	-7.52	3239.43	1.05	460451.00	781007.53	
12986.00	89.30	1.46	9699.44	3334.50	-5.32	3334.41	1.07	460545.97	781009.73	
13081.00	89.44	1.82	9700.48	3429.46	-2.61	3429.38	0.41	460640.93	781012.44	
13175.00	90.14	1.74	9700.83	3523.41	0.31	3523.35	0.75	460734.88	781015.36	
13270.00	88.95	2.26	9701.58	3618.35	3.63	3618.31	1.37	460829.82	781018.68	
13365.00	88.60	1.73	9703.61	3713.27	6.94	3713.24	0.67	460924.74	781021.99	
13458.00	88.74	1.54	9705.77	3806.21	9.59	3806.20	0.25	461017.68	781024.64	
13553.00	88.18	2.16	9708.32	3901.12	12.65	3901.13	0.88	461112.59	781027.70	
13648.00	90.07	1.78	9709.77	3996.05	15.92	3996.07	2.03	461207.52	781030.97	
13742.00	90.49	0.09	9709.31	4090.03	17.45	4090.06	1.85	461301.50	781032.50	
13837.00	90.70	0.21	9708.33	4185.03	17.70	4185.06	0.25	461396.50	781032.75	
13929.00	90.42	0.67	9707.43	4277.02	18.41	4277.05	0.59	461488.49	781033.46	
14024.00	89.51	359.86	9707.49	4372.02	18.85	4372.05	1.28	461583.49	781033.90	
14118.00	90.00	359.86	9707.89	4466.02	18.62	4466.05	0.52	461677.49	781033.67	
14214.00	89.16	0.19	9708.59	4562.01	18.66	4562.04	0.94	461773.48	781033.71	
14307.00	89.65	359.90	9709.56	4655.01	18.73	4655.04	0.61	461866.48	781033.78	
14402.00	89.02	359.23	9710.66	4750.00	18.01	4750.02	0.97	461961.47	781033.06	
14496.00	89.44	359.17	9711.92	4843.98	16.70	4843.99	0.45	462055.45	781031.75	
14591.00	89.09	358.20	9713.14	4938.95	14.52	4938.94	1.09	462150.42	781029.57	
14685.00	88.74	358.96	9714.92	5032.90	12.19	5032.88	0.89	462244.37	781027.24	

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 (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
14780.00	88.95	359.58	9716.84	5127.87	10.98	5127.84	0.69	462339.34	781026.03	
14875.00	88.81	359.34	9718.69	5222.85	10.09	5222.81	0.29	462434.32	781025.14	
14970.00	88.81	0.00	9720.67	5317.83	9.54	5317.79	0.69	462529.30	781024.59	
15065.00	87.69	359.43	9723.57	5412.78	9.07	5412.73	1.32	462624.25	781024.12	
15159.00	88.46	359.67	9726.73	5506.72	8.33	5506.67	0.86	462718.19	781023.38	
15254.00	89.72	0.77	9728.24	5601.71	8.69	5601.66	1.76	462813.18	781023.74	
15349.00	90.14	0.15	9728.35	5696.70	9.46	5696.65	0.79	462908.17	781024.51	
15443.00	89.93	1.15	9728.29	5790.70	10.52	5790.65	1.09	463002.17	781025.57	
15538.00	89.02	0.57	9729.16	5885.68	11.95	5885.64	1.14	463097.15	781027.00	
15633.00	89.79	1.18	9730.15	5980.66	13.40	5980.63	1.03	463192.13	781028.45	
15726.00	89.79	1.15	9730.49	6073.64	15.29	6073.62	0.03	463285.11	781030.34	
15820.00	90.42	0.65	9730.32	6167.63	16.77	6167.62	0.86	463379.10	781031.82	
15915.00	90.91	359.76	9729.22	6262.62	17.11	6262.61	1.07	463474.09	781032.16	
16010.00	91.54	0.49	9727.19	6357.60	17.31	6357.59	1.01	463569.07	781032.36	
16104.00	91.12	1.36	9725.00	6451.56	18.83	6451.55	1.03	463663.03	781033.88	
16199.00	89.65	1.20	9724.37	6546.53	20.95	6546.54	1.56	463758.00	781036.00	
16294.00	89.44	0.82	9725.12	6641.51	22.63	6641.53	0.46	463852.98	781037.68	
16389.00	90.21	1.30	9725.41	6736.50	24.38	6736.52	0.96	463947.97	781039.43	
16483.00	91.05	1.67	9724.38	6830.46	26.82	6830.49	0.98	464041.93	781041.87	
16578.00	90.70	1.51	9722.93	6925.41	29.46	6925.46	0.41	464136.88	781044.51	
16673.00	91.75	1.77	9720.89	7020.35	32.17	7020.41	1.14	464231.82	781047.22	
16767.00	91.33	2.34	9718.37	7114.25	35.54	7114.34	0.75	464325.72	781050.59	
16862.00	89.44	1.31	9717.73	7209.20	38.57	7209.30	2.27	464420.67	781053.62	
16957.00	90.70	1.41	9717.61	7304.17	40.82	7304.28	1.33	464515.64	781055.87	
17051.00	89.79	1.07	9717.21	7398.14	42.86	7398.27	1.03	464609.61	781057.91	
17146.00	90.70	1.01	9716.81	7493.13	44.58	7493.26	0.96	464704.60	781059.63	
17241.00	91.05	0.69	9715.36	7588.10	45.99	7588.24	0.50	464799.57	781061.04	
17294.00	91.19	0.47	9714.32	7641.09	46.53	7641.23	0.49	464852.56	781061.58	Last Svy
17364.00	91.19	0.47	9712.87	7711.07	47.10	7711.22	0.00	464922.54	781062.15	Proj to TD