

Gladys Briggs 6H
 Marshall County, WV
 SDC 40
Plan vs Actual

Plan Data for Gladys Briggs 6H

Plan Point Information:
 DogLeg Severity Unit: %/100.00ft

MD Inc (USft)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
990.00	0.00	0.00	990.00	0.00	0.00	0.00	0.0
1100.00	4.00	245.00	1099.84	-2.95	-6.32	-2.16	2.00
1600.00	4.00	245.00	1598.62	-17.69	-37.94	-12.96	0.00
2000.00	0.00	0.00	1998.29	-23.59	-50.58	-17.28	1.00
4686.60	0.00	0.00	4684.89	-23.59	-50.58	-17.28	0.00
6186.60	30.00	245.00	6117.29	-185.79	-398.43	-136.14	2.00
6401.66	30.00	245.00	6303.53	-231.24	-495.89	-169.44	0.00
7513.36	70.00	144.55	7101.66	-876.61	-435.23	343.65	7.00
7795.25	89.87	128.44	7151.00	-1075.39	-244.90	618.83	9.00
13482.60	89.87	128.44	7164.00	-4611.20	4209.74	6243.41	0.00

Target Set Information:
 Name: GLADYS BRIGGS 6H TARGETS
 Position offsets from Slot centre

Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	Lat (°)	Long (°)
LP 6H	7151.00	-1075.39	-244.90	14441056.33	1748097.41	39.764077	-80.616812
PBHL 6H	7164.00	-4611.20	4209.74	14437520.52	1752552.05	39.754313	-80.601016

Plan Data for Gladys Briggs 6H

Field: SOUTHWESTERN_MARSHALL_CO, WV UTM NAD 83 (17N)
 Map Unit: USft Vertical Reference Datum (VRD): Mean Sea Level
 Projected Coordinate System: NAD83 / UTM zone 17N

Site: Gladys Briggs Pad
 Unit: USFeet TVD Reference:
 Company Name: SOUTHWESTERN ENERGY

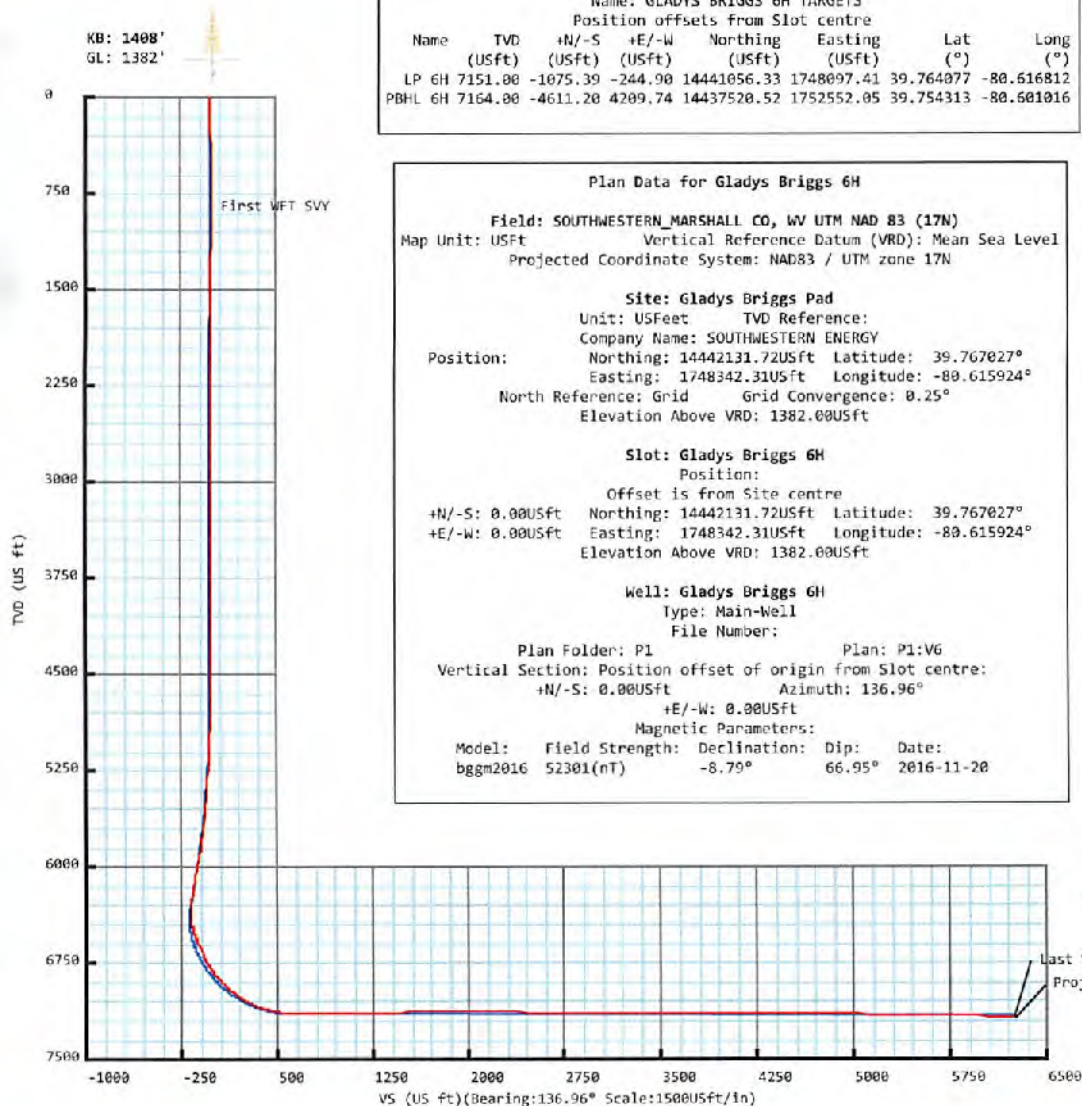
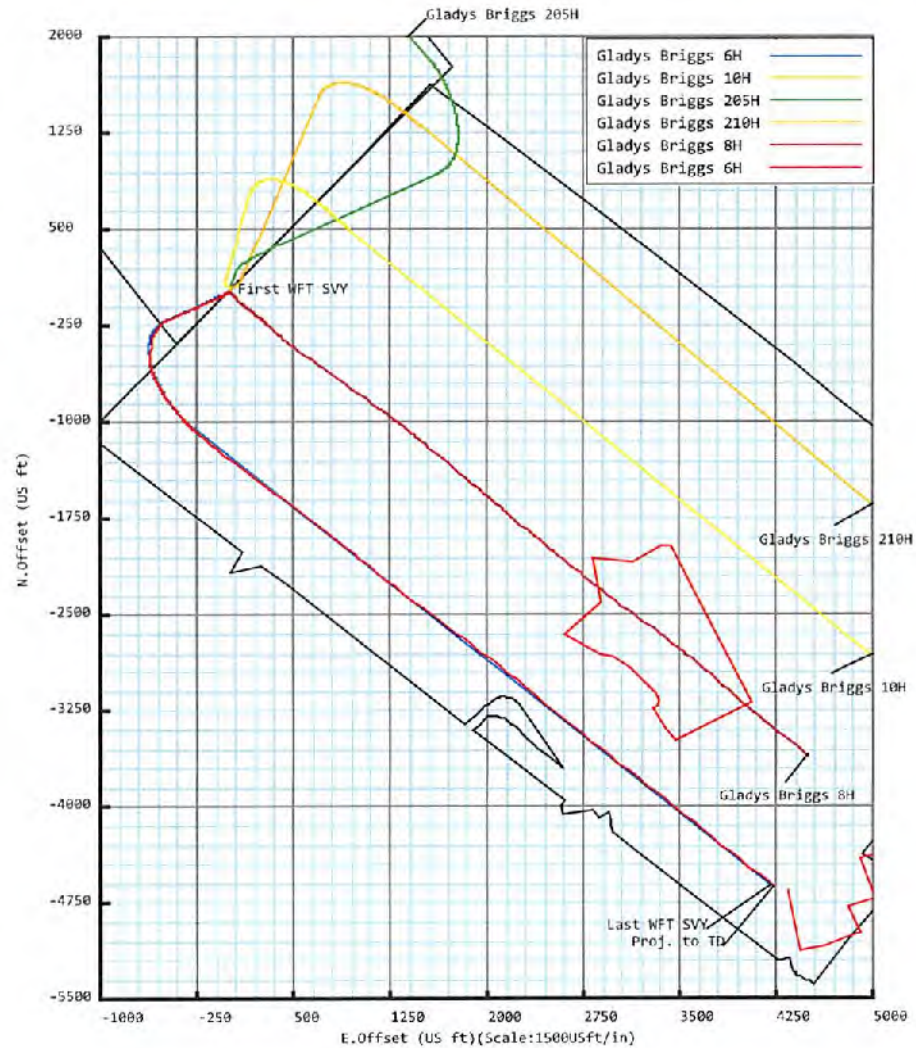
Position:
 Northing: 14442131.72USft Latitude: 39.767027°
 Easting: 1748342.31USft Longitude: -80.615924°
 North Reference: Grid Grid Convergence: 0.25°
 Elevation Above VRD: 1382.00USft

Slot: Gladys Briggs 6H
 Position:
 Offset is from Site centre
 +N/-S: 0.00USft Northing: 14442131.72USft Latitude: 39.767027°
 +E/-W: 0.00USft Easting: 1748342.31USft Longitude: -80.615924°
 Elevation Above VRD: 1382.00USft

Well: Gladys Briggs 6H
 Type: Main-Well
 File Number:

Plan Folder: P1 Plan: P1:VG
 Vertical Section: Position offset of origin from Slot centre:
 +N/-S: 0.00USft Azimuth: 136.96°
 +E/-W: 0.00USft

Magnetic Parameters:
 Model: Field Strength: Declination: Dip: Date:
 bggm2016 52301(nT) -8.79° 66.95° 2016-11-20



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True Grid
 Mag

Grid Convergence: 0.25°
 Mag Declination: -8.79°
 Bearing:
 True = Mag - 8.79°
 Grid = True - 0.25°
 Total Correction to Grid North -9.04°



Weatherford

Drawing By: GWR Date: 11/21/2016
 Weatherford Drilling Services
 7725 W. Reno, Ste. #220
 Oklahoma City, OK 73127
 +1.405.773.1100 Main
 +1.405.773.1887 Fax

**5D Survey Report****SOUTHWESTERN ENERGY**

Field Name: *SOUTHWESTERN_MARSHALL CO, WV UTM NAD 83 (17N)*
Site Name: *Gladys Briggs Pad*
Well Name: *Gladys Briggs 6H*
Survey: *Definitive survey*

14 December 2016

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Gladys Briggs 6H

Map Units: US ft	Company Name: SOUTHWESTERN ENERGY		
Field Name: SOUTHWESTER N_MARSHALL CO, WV UTM NAD 83 (17N)	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / UTM zone 17N		
	Comment:		
Site: Gladys Briggs Pad	Units: US ft	North Reference: Grid	Convergence Angle: 0.25
	Position:	Northing: 14442131.72 US ft	Latitude: 39.767027000
		Easting: 1748342.31 US ft	Longitude: -80.615924000
	Elevation above MSL: 1382.00 US ft		Comment:
Slot: Gladys Briggs 6H	Position (Relative to Site Centre)		
	+N/-S: 0.00 US ft	Northing: 14442131.72 US ft	Latitude: 39.767027000
	+E/-W: 0.00 US ft	Easting: 1748342.31 US ft	Longitude: -80.615924000
	Elevation above MSL: 1382.00 US ft		Comment:
Well: Gladys Briggs 6H	Type: Main well	UWI:	
	File Number:	Comment:	
	Closure Distance: 6275.87 US ft	Closure Azimuth: 137.53°	
	Vertical Section: Position of Origin (Relative to Slot centre)		
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 136.96°

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Drill floor: Survey Name: Definitive Survey			
Rig Height (Drill Floor): 26.00us ft	Elevation above MSL: 1408.00us ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Definitive Survey				
Date: 19/Oct/2015	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:	
Magnetic Model:				
Model Name: bggm2016	Date: 20/Nov/2016	Field Strength: 52301.7nT	Declination: -8.79°	Dip: 66.95°
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
EMS	0.00	769.00	Rig Surveys
NO SURV 5d	769.00	1251.00	NO SURV 5d
MWD	1251.00	2593.00	WFT MWD (01)
MWD	2593.00	6233.00	WFT MWD (02)
MWD	6233.00	13495.00	WFT MWD (03)

Wellpath created using minimum curvature.

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	14442131.72	1748342.31	0.00	
185.00	1.00	32.69	184.99	-0.40	1.36	0.87	14442133.08	1748343.19	0.54	
277.00	0.60	103.79	276.98	-0.19	1.92	1.77	14442133.64	1748344.09	1.07	
368.00	1.50	118.09	367.97	1.33	1.25	3.29	14442132.97	1748345.60	1.02	
445.00	0.70	135.29	444.95	2.76	0.44	4.51	14442132.16	1748346.82	1.11	
538.00	1.40	116.89	537.94	4.39	-0.48	5.92	14442131.24	1748348.23	0.83	
631.00	0.40	180.49	630.93	5.69	-1.32	6.93	14442130.40	1748349.24	1.37	
723.00	0.30	153.89	722.92	6.16	-1.86	7.03	14442129.86	1748349.35	0.20	
769.00	0.20	221.29	768.92	6.28	-2.03	7.03	14442129.69	1748349.35	0.63	
880.00	0.40	142.42	879.92	6.69	-2.48	7.14	14442129.24	1748349.46	0.37	First WFT SVY
972.00	1.57	238.00	971.91	6.76	-3.40	6.27	14442128.32	1748348.58	1.80	
1065.00	3.98	251.62	1064.80	5.17	-5.09	2.13	14442126.63	1748344.44	2.67	
1158.00	5.28	249.61	1157.49	2.18	-7.60	-4.95	14442124.12	1748337.36	1.41	
1251.00	5.01	246.65	1250.12	-0.84	-10.70	-12.69	14442121.02	1748329.63	0.41	
1343.00	3.91	232.35	1341.84	-2.49	-14.21	-18.86	14442117.51	1748323.45	1.69	
1436.00	4.01	225.54	1434.62	-2.70	-18.43	-23.69	14442113.29	1748318.62	0.52	
1529.00	3.52	232.94	1527.42	-2.92	-22.42	-28.29	14442109.30	1748314.02	0.74	
1622.00	2.92	259.01	1620.27	-4.47	-24.60	-32.89	14442107.12	1748309.42	1.68	
1714.00	2.32	267.05	1712.18	-6.92	-25.14	-37.05	14442106.58	1748305.26	0.76	
1807.00	2.41	267.70	1805.10	-9.41	-25.31	-40.89	14442106.41	1748301.43	0.10	
1900.00	1.83	253.49	1898.03	-11.34	-25.81	-44.27	14442105.91	1748298.05	0.84	
1993.00	1.58	224.01	1991.00	-11.94	-27.16	-46.58	14442104.56	1748295.73	0.97	
2085.00	1.33	209.29	2082.97	-11.55	-29.00	-47.98	14442102.72	1748294.33	0.49	
2178.00	0.63	185.36	2175.95	-10.89	-30.45	-48.56	14442101.27	1748293.75	0.86	
2271.00	0.26	146.22	2268.95	-10.34	-31.14	-48.49	14442100.58	1748293.82	0.49	
2364.00	0.40	131.11	2361.95	-9.81	-31.53	-48.13	14442100.19	1748294.19	0.18	
2456.00	0.53	119.57	2453.94	-9.08	-31.95	-47.52	14442099.77	1748294.80	0.17	
2549.00	0.83	107.07	2546.94	-8.09	-32.36	-46.50	14442099.36	1748295.82	0.36	
2593.00	0.83	103.51	2590.93	-7.54	-32.52	-45.88	14442099.20	1748296.43	0.12	
2761.00	0.93	105.29	2758.91	-5.37	-33.17	-43.39	14442098.55	1748298.93	0.06	
2853.00	1.11	104.08	2850.90	-3.99	-33.58	-41.80	14442098.14	1748300.51	0.20	
2946.00	0.80	17.08	2943.89	-3.55	-33.18	-40.74	14442098.54	1748301.58	1.43	
3039.00	0.78	19.59	3036.88	-4.17	-31.96	-40.33	14442099.76	1748301.98	0.04	
3132.00	1.01	12.69	3129.87	-4.92	-30.57	-39.94	14442101.15	1748302.37	0.27	
3224.00	0.91	18.08	3221.86	-5.73	-29.08	-39.54	14442102.64	1748302.78	0.15	
3317.00	0.87	335.88	3314.85	-6.75	-27.74	-39.60	14442103.98	1748302.72	0.69	
3410.00	0.72	339.68	3407.84	-7.96	-26.54	-40.09	14442105.18	1748302.23	0.17	
3503.00	0.71	335.45	3500.83	-9.05	-25.47	-40.53	14442105.25	1748301.78	0.06	
3595.00	0.58	354.90	3592.82	-9.95	-24.49	-40.81	14442107.23	1748301.51	0.27	
3688.00	0.49	352.42	3685.82	-10.65	-23.63	-40.90	14442108.09	1748301.41	0.10	
3781.00	0.40	16.84	3778.82	-11.14	-22.92	-40.86	14442108.80	1748301.45	0.22	
3873.00	0.37	34.01	3870.82	-11.36	-22.37	-40.60	14442109.35	1748301.71	0.13	
3966.00	0.66	334.92	3963.81	-11.94	-21.63	-40.66	14442110.09	1748301.65	0.61	
4059.00	0.77	334.57	4056.81	-13.04	-20.58	-41.16	14442111.14	1748301.16	0.12	
4152.00	0.64	274.76	4149.80	-14.03	-19.98	-41.94	14442111.74	1748300.37	0.77	
4244.00	0.68	259.06	4241.79	-14.70	-20.04	-42.99	14442111.68	1748299.32	0.20	
4337.00	0.44	261.30	4334.79	-15.19	-20.20	-43.88	14442111.52	1748298.43	0.26	
4430.00	0.26	88.76	4427.79	-15.25	-20.25	-44.03	14442111.47	1748298.29	0.75	
4522.00	0.54	172.03	4519.79	-14.76	-20.67	-43.76	14442111.05	1748298.56	0.62	
4615.00	0.67	159.75	4612.78	-13.90	-21.61	-43.51	14442110.11	1748298.80	0.20	
4708.00	1.22	216.85	4705.77	-13.22	-22.92	-43.91	14442108.80	1748298.40	1.10	
4801.00	3.07	234.05	4798.70	-13.36	-25.17	-46.52	14442106.55	1748295.79	2.08	
4893.00	5.41	237.63	4890.44	-14.46	-28.94	-52.18	14442102.78	1748290.13	2.56	
4986.00	7.63	244.18	4982.84	-17.10	-33.98	-61.44	14442097.74	1748280.87	2.51	
5079.00	9.34	243.76	5074.82	-21.11	-40.00	-73.77	14442091.72	1748268.54	1.84	
5171.00	10.26	243.72	5165.47	-25.63	-46.93	-87.81	14442084.79	1748254.50	1.00	
5264.00	11.64	241.04	5256.76	-30.30	-55.14	-103.45	14442076.58	1748238.86	1.58	
5357.00	12.85	244.15	5347.66	-35.64	-64.19	-120.97	14442067.53	1748221.35	1.48	

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5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
5450.00	14.12	247.09	5438.10	-42.60	-73.12	-140.72	14442058.60	1748201.59	1.55	
5542.00	16.28	247.09	5526.87	-50.90	-82.51	-162.94	14442049.21	1748179.37	2.35	
5635.00	18.14	244.48	5615.71	-59.75	-93.82	-188.02	14442037.90	1748154.30	2.17	
5728.00	19.08	244.35	5703.84	-68.65	-105.64	-214.78	14442025.08	1748127.53	1.01	
5821.00	20.59	245.58	5791.32	-78.42	-119.98	-243.38	14442011.74	1748098.94	1.68	
5914.00	23.33	249.74	5877.57	-90.77	-133.12	-275.55	14441998.60	1748066.76	3.39	
6006.00	26.20	250.27	5961.10	-105.86	-146.29	-311.77	14441985.43	1748030.55	3.13	
6099.00	28.88	249.01	6043.56	-122.42	-161.27	-352.07	14441970.45	1747990.25	2.95	
6192.00	30.21	244.82	6124.47	-138.03	-179.27	-394.22	14441952.45	1747948.10	2.64	
6233.00	30.02	243.77	6159.94	-144.16	-188.19	-412.75	14441943.53	1747929.56	1.37	
6311.00	30.33	242.90	6227.37	-155.21	-205.79	-447.79	14441925.93	1747894.53	0.69	
6358.00	31.61	242.05	6267.67	-161.68	-216.97	-469.23	14441914.75	1747873.08	2.88	
6404.00	32.59	237.61	6306.64	-167.11	-229.25	-490.35	14441902.47	1747851.97	5.55	
6451.00	32.68	229.81	6346.24	-170.08	-244.23	-510.74	14441887.49	1747831.58	8.95	
6497.00	33.18	222.41	6384.86	-169.70	-261.55	-528.72	14441870.18	1747813.59	8.81	
6543.00	33.81	215.02	6423.24	-166.05	-281.33	-544.56	14441850.39	1747797.75	8.97	
6590.00	34.03	209.00	6462.25	-159.29	-303.55	-558.44	14441828.17	1747783.87	7.16	
6636.00	34.35	202.83	6500.31	-150.01	-326.77	-569.72	14441804.95	1747772.59	7.57	
6682.00	34.95	197.34	6538.17	-138.19	-351.32	-578.69	14441780.40	1747763.63	6.91	
6729.00	34.26	192.31	6576.86	-124.01	-377.10	-585.52	14441754.62	1747756.79	6.25	
6775.00	34.18	187.91	6614.90	-108.51	-402.55	-590.06	14441729.17	1747752.25	5.38	
6822.00	34.72	186.51	6653.66	-91.51	-428.93	-593.40	14441702.79	1747748.92	2.04	
6868.00	35.44	185.42	6691.30	-74.16	-455.22	-596.14	14441676.50	1747746.17	2.07	
6914.00	36.94	184.26	6728.43	-55.94	-482.28	-598.43	14441649.44	1747743.89	3.58	
6961.00	38.57	180.85	6765.59	-35.80	-511.02	-599.69	14441620.70	1747742.62	5.63	
7007.00	40.46	174.16	6801.09	-13.57	-540.22	-596.39	14441591.50	1747743.93	10.12	
7053.00	42.97	169.32	6835.44	11.57	-570.49	-593.96	14441561.23	1747748.35	8.87	
7100.00	44.73	165.06	6869.34	39.70	-602.22	-586.73	14441529.50	1747755.59	7.31	
7146.00	46.43	160.50	6901.54	69.27	-633.58	-576.99	14441498.14	1747765.33	7.98	
7192.00	47.95	155.84	6932.81	100.72	-664.88	-564.43	14441466.84	1747777.88	8.13	
7239.00	50.02	153.39	6963.65	134.51	-696.91	-549.22	14441434.81	1747793.09	5.90	
7285.00	52.62	151.21	6992.40	169.13	-728.69	-532.52	14441403.03	1747809.79	6.75	
7332.00	56.24	149.59	7019.74	206.31	-761.92	-513.63	14441369.80	1747828.68	8.20	
7378.00	60.56	148.01	7043.84	244.65	-795.41	-493.33	14441336.31	1747848.99	9.84	
7424.00	64.68	144.88	7064.99	284.92	-829.43	-470.74	14441302.29	1747871.57	10.80	
7471.00	67.66	143.30	7083.98	327.58	-864.24	-445.52	14441267.48	1747896.79	7.05	
7517.00	70.27	142.11	7100.49	370.29	-898.39	-419.51	14441233.33	1747922.80	6.17	
7563.00	73.11	140.91	7114.94	413.82	-932.57	-392.33	14441199.15	1747949.98	6.65	
7610.00	76.69	138.52	7127.18	459.14	-967.17	-362.99	14441164.55	1747979.32	9.06	
7656.00	79.97	136.42	7136.49	504.18	-1000.36	-332.54	14441131.36	1748009.77	8.42	
7702.00	82.71	134.77	7143.41	549.63	-1032.84	-300.72	14441098.88	1748041.59	6.93	
7749.00	84.94	132.02	7148.47	596.26	-1064.93	-266.77	14441066.79	1748075.54	7.51	
7795.00	88.27	130.82	7151.19	641.96	-1095.31	-232.34	14441036.41	1748109.97	7.69	
7888.00	90.92	129.53	7151.85	734.29	-1155.30	-161.29	14440976.42	1748161.02	3.17	
7981.00	90.74	128.14	7150.50	826.35	-1213.61	-88.86	14440918.11	1748253.45	1.51	
8073.00	90.49	127.97	7149.52	917.23	-1270.31	-16.42	14440861.41	1748325.89	0.33	
8166.00	90.55	127.39	7148.67	1009.01	-1327.16	57.18	14440804.56	1748399.49	0.63	
8259.00	90.37	126.58	7147.93	1100.60	-1383.10	131.46	14440748.62	1748473.78	0.89	
8352.00	90.49	126.47	7147.23	1192.06	-1438.45	206.19	14440693.27	1748548.51	0.18	
8444.00	90.74	126.11	7146.24	1282.47	-1492.90	280.34	14440638.82	1748622.66	0.48	
8537.00	91.48	126.64	7144.44	1373.87	-1548.05	355.21	14440583.67	1748697.52	0.98	
8630.00	91.36	127.04	7142.13	1465.39	-1603.79	429.62	14440527.93	1748771.93	0.45	
8723.00	91.73	128.33	7139.63	1557.14	-1660.62	503.19	14440471.10	1748845.50	1.44	
8815.00	92.10	127.79	7136.55	1647.98	-1717.31	575.58	14440414.41	1748917.90	0.71	
8908.00	91.97	126.82	7133.25	1739.60	-1773.63	649.51	14440358.09	1748991.82	1.05	
9001.00	91.73	127.33	7130.25	1831.18	-1829.67	723.67	14440302.05	1749065.98	0.61	
9093.00	90.92	128.53	7128.12	1922.01	-1886.21	796.21	14440245.51	1749138.53	1.57	
9186.00	88.59	128.82	7128.52	2014.03	-1944.32	868.81	14440187.40	1749211.13	2.52	
9279.00	88.77	130.77	7130.66	2106.28	-2003.82	940.25	14440127.90	1749282.56	2.11	

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5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (%/100US ft)	Comment
9372.00	87.84	129.72	7133.41	2198.60	-2063.88	1011.20	14440067.84	1749353.51	1.51	
9454.00	87.90	129.06	7136.83	2289.73	-2122.22	1082.25	14440009.50	1749424.57	0.72	
9557.00	88.95	128.20	7139.39	2381.71	-2180.26	1154.87	14439951.46	1749497.19	1.46	
9650.00	88.77	127.87	7141.24	2473.57	-2237.55	1228.11	14439894.17	1749570.42	0.40	
9742.00	89.26	127.90	7142.82	2564.40	-2294.03	1300.71	14439837.69	1749643.02	0.53	
9835.00	89.51	127.99	7143.82	2656.25	-2351.22	1374.04	14439780.50	1749716.36	0.29	
9928.00	89.32	127.52	7144.77	2748.05	-2408.16	1447.57	14439723.57	1749789.88	0.55	
10021.00	90.00	127.34	7145.32	2839.76	-2464.68	1521.42	14439667.04	1749863.73	0.76	
10113.00	90.06	127.05	7145.27	2930.43	-2520.30	1594.70	14439611.43	1749937.02	0.32	
10206.00	90.06	127.03	7145.17	3022.04	-2576.32	1668.94	14439555.40	1750011.25	0.02	
10299.00	89.81	126.14	7145.28	3113.51	-2631.74	1743.61	14439499.98	1750085.93	0.99	
10392.00	90.18	127.24	7145.29	3205.02	-2687.31	1818.19	14439444.41	1750160.50	1.25	
10484.00	89.88	128.09	7145.24	3295.81	-2743.52	1891.01	14439388.20	1750233.33	0.98	
10577.00	90.00	127.92	7145.33	3387.68	-2800.79	1964.29	14439333.93	1750306.61	0.22	
10670.00	90.00	127.42	7145.33	3479.46	-2857.62	2037.91	14439274.10	1750380.22	0.54	
10762.00	89.86	127.52	7145.43	3570.20	-2913.59	2110.93	14439218.13	1750453.24	0.17	
10855.00	89.94	129.34	7145.58	3662.17	-2971.39	2183.78	14439160.33	1750526.09	1.96	
10948.00	90.09	129.88	7145.55	3754.40	-3030.68	2255.42	14439101.04	1750597.74	0.60	
11040.00	89.86	130.51	7145.58	3845.76	-3090.06	2325.70	14439041.66	1750668.01	0.72	
11133.00	90.00	130.34	7145.67	3938.16	-3150.37	2396.49	14438981.35	1750738.81	0.22	
11226.00	89.69	130.25	7145.93	4030.53	-3210.51	2467.43	14438921.21	1750809.74	0.35	
11319.00	90.18	129.33	7146.03	4122.80	-3270.03	2538.69	14438861.69	1750881.20	1.12	
11411.00	89.26	129.08	7146.48	4213.96	-3328.18	2610.17	14438803.54	1750952.49	1.04	
11504.00	89.32	129.54	7147.63	4306.12	-3387.09	2682.12	14438744.63	1751024.44	0.50	
11597.00	89.26	129.27	7148.79	4398.31	-3446.12	2753.98	14438685.60	1751096.29	0.30	
11689.00	89.26	128.63	7149.97	4489.40	-3503.95	2825.52	14438627.77	1751167.83	0.70	
11782.00	89.63	128.25	7150.87	4581.37	-3561.77	2898.36	14438569.95	1751240.67	0.57	
11875.00	89.63	127.59	7151.48	4673.21	-3618.92	2971.72	14438512.80	1751314.04	0.71	
11968.00	89.69	126.88	7152.03	4764.87	-3675.19	3045.76	14438456.53	1751388.08	0.77	
12060.00	89.69	127.43	7152.52	4855.53	-3730.76	3119.09	14438400.96	1751461.40	0.60	
12153.00	89.75	128.14	7152.98	4947.34	-3787.74	3192.58	14438343.98	1751534.90	0.77	
12246.00	88.58	129.45	7154.33	5039.38	-3846.00	3265.06	14438285.72	1751607.37	1.89	
12339.00	88.64	129.31	7156.59	5131.54	-3904.98	3336.92	14438226.74	1751679.24	0.16	
12432.00	88.52	128.98	7158.90	5223.65	-3963.67	3409.03	14438168.05	1751751.34	0.38	
12524.00	88.89	128.62	7160.97	5314.69	-4021.31	3480.71	14438110.41	1751823.02	0.56	
12617.00	89.51	128.53	7162.27	5406.69	-4079.29	3553.41	14438052.43	1751895.72	0.67	
12710.00	89.75	128.47	7162.87	5498.68	-4137.18	3626.19	14437994.54	1751968.50	0.27	
12802.00	89.20	129.23	7163.72	5589.75	-4194.89	3697.83	14437936.83	1752040.14	1.02	
12895.00	89.07	129.77	7165.12	5681.95	-4254.04	3769.58	14437877.68	1752111.90	0.60	
12988.00	88.77	129.14	7166.87	5774.14	-4313.13	3841.38	14437818.59	1752183.69	0.75	
13080.00	88.58	129.15	7169.00	5865.26	-4371.19	3912.71	14437760.53	1752255.02	0.21	
13173.00	88.71	127.98	7171.20	5957.24	-4429.15	3985.40	14437702.57	1752327.72	1.27	
13266.00	88.89	128.22	7173.15	6049.11	-4486.52	4058.57	14437645.20	1752400.89	0.32	
13359.00	87.96	128.49	7175.70	6141.03	-4544.21	4131.47	14437587.51	1752473.79	1.04	
13452.00	88.09	129.00	7178.91	6233.02	-4602.38	4203.97	14437529.34	1752546.28	0.57	
13472.00	88.09	128.82	7179.58	6252.81	-4614.93	4219.52	14437516.79	1752561.83	0.90	Last WFT SVY
13495.00	88.09	128.82	7180.34	6275.56	-4629.34	4237.43	14437502.38	1752579.74	0.00	Proj. to TD

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