

MAR 07 2019



Survey Report

RECEIVED

30-015-44406

Service Company: Aim Directional Services, LLC

Well: Striker 1 SWD

API or UWI: 30-015-44406

State: NM

County: Eddy

Country: USA

Comment

Location: Loving

Rig: Bison 15

Job Number: WT-18-255

Operating Company: NGL Energy Partners

Magnetic Declination: 7.05

Proposed Azimuth: 0.00

North Reference: GRID

Latitude: 32.309947

Longitude: -104.071171

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
2590.00	2.45	114.66	2588.84	-24.71	29.87

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
2767.00	1.93	112.87	2765.71	-27.45	36.05	127.28	45.31	-27.45	0.30
2862.00	1.01	120.87	2860.68	-28.50	38.25	126.69	47.70	-28.50	0.99
2957.00	0.79	261.76	2955.67	-29.02	38.32	127.14	48.07	-29.02	1.79
3053.00	1.14	279.69	3051.66	-28.96	36.72	128.26	46.76	-28.96	0.48
3149.00	1.19	278.81	3147.64	-28.64	34.79	129.46	45.07	-28.64	0.06
3244.00	1.36	284.08	3242.62	-28.22	32.73	130.77	43.21	-28.22	0.22
3340.00	1.45	280.65	3338.59	-27.72	30.43	132.33	41.16	-27.72	0.13
3435.00	1.45	277.67	3433.56	-27.33	28.06	134.25	39.17	-27.33	0.08
3531.00	1.32	272.13	3529.53	-27.13	25.75	136.50	37.40	-27.13	0.19
3626.00	1.27	281.36	3624.50	-26.88	23.62	138.69	35.79	-26.88	0.23
3722.00	1.32	283.11	3720.48	-26.42	21.50	140.86	34.06	-26.42	0.07
3817.00	1.27	281.18	3815.46	-25.97	19.40	143.24	32.42	-25.97	0.07
3912.00	1.58	281.01	3910.43	-25.51	17.08	146.19	30.71	-25.51	0.33
4007.00	1.32	277.40	4005.40	-25.12	14.71	149.65	29.11	-25.12	0.29
4103.00	1.41	283.64	4101.37	-24.70	12.47	153.22	27.67	-24.70	0.18
4198.00	1.45	284.26	4196.34	-24.13	10.17	157.15	26.19	-24.13	0.05

Accepted for record
NMOCD

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
4294.00	1.67	282.06	4292.30	-23.54	7.62	162.06	24.74	-23.54	0.24
4390.00	1.41	285.05	4388.27	-22.94	5.11	167.43	23.50	-22.94	0.28
4485.00	1.49	278.98	4483.24	-22.44	2.77	172.98	22.61	-22.44	0.18
4581.00	1.54	282.76	4579.20	-21.96	0.27	179.28	21.97	-21.96	0.12
4676.00	1.41	282.24	4674.17	-21.43	-2.11	185.63	21.54	-21.43	0.14
4772.00	1.49	279.16	4770.14	-20.99	-4.50	192.10	21.46	-20.99	0.12
4867.00	1.32	279.16	4865.11	-20.61	-6.80	198.25	21.71	-20.61	0.18
4963.00	1.36	284.43	4961.09	-20.15	-8.99	204.05	22.07	-20.15	0.13
5056.00	1.23	274.68	5054.06	-19.80	-11.06	209.18	22.68	-19.80	0.27
5151.00	1.41	271.69	5149.04	-19.68	-13.24	213.93	23.72	-19.68	0.20
5247.00	1.45	281.27	5245.01	-19.41	-15.61	218.82	24.91	-19.41	0.25
5342.00	1.36	267.56	5339.98	-19.22	-17.92	222.99	26.28	-19.22	0.37
5438.00	1.27	273.27	5435.96	-19.21	-20.12	226.32	27.82	-19.21	0.17
5533.00	1.05	268.96	5530.94	-19.17	-22.04	228.99	29.21	-19.17	0.25
5629.00	0.66	264.66	5626.93	-19.23	-23.47	230.67	30.34	-19.23	0.41
5724.00	0.79	236.01	5721.92	-19.65	-24.56	231.34	31.45	-19.65	0.40
5820.00	0.66	241.28	5817.91	-20.29	-25.59	231.60	32.66	-20.29	0.15
5915.00	0.53	236.88	5912.91	-20.79	-26.44	231.82	33.63	-20.79	0.14
6010.00	0.40	212.45	6007.90	-21.31	-26.99	231.70	34.38	-21.31	0.25
6093.00	0.44	242.42	6090.90	-21.70	-27.42	231.65	34.97	-21.70	0.27
6189.00	0.53	261.49	6186.90	-21.94	-28.19	232.11	35.72	-21.94	0.19
6284.00	0.66	280.83	6281.89	-21.90	-29.16	233.09	36.47	-21.90	0.25
6379.00	0.70	288.39	6376.88	-21.61	-30.25	234.45	37.18	-21.61	0.10
6475.00	0.44	250.42	6472.88	-21.55	-31.15	235.32	37.88	-21.55	0.46
6570.00	0.57	250.24	6567.88	-21.83	-31.94	235.65	38.69	-21.83	0.14
6666.00	0.57	225.81	6663.87	-22.33	-32.73	235.70	39.62	-22.33	0.25
6761.00	0.13	268.00	6758.87	-22.66	-33.18	235.67	40.18	-22.66	0.51
6856.00	0.92	337.87	6853.87	-21.96	-33.57	236.81	40.12	-21.96	0.93
6951.00	1.19	305.00	6948.85	-20.69	-34.67	239.18	40.37	-20.69	0.68
7047.00	1.19	306.76	7044.83	-19.52	-36.29	241.72	41.20	-19.52	0.04
7141.00	0.97	306.23	7138.81	-18.46	-37.71	243.91	41.99	-18.46	0.23
7236.00	0.79	39.31	7233.81	-17.48	-37.94	245.26	41.78	-17.48	1.35
7331.00	0.88	61.45	7328.80	-16.63	-36.89	245.74	40.46	-16.63	0.35
7426.00	0.26	85.01	7423.79	-16.26	-36.03	245.71	39.53	-16.26	0.68
7520.00	0.40	116.83	7517.79	-16.39	-35.53	245.24	39.12	-16.39	0.24
7614.00	0.48	158.22	7611.79	-16.90	-35.09	244.28	38.95	-16.90	0.34
7710.00	0.79	138.27	7707.78	-17.77	-34.50	242.75	38.81	-17.77	0.39

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
7805.00	0.88	136.34	7802.77	-18.79	-33.56	240.76	38.46	-18.79	0.10
7900.00	0.66	160.33	7897.76	-19.83	-32.87	238.90	38.39	-19.83	0.41
7996.00	0.84	169.12	7993.75	-21.04	-32.55	237.12	38.76	-21.04	0.22
8091.00	1.27	158.40	8088.74	-22.70	-32.03	234.67	39.26	-22.70	0.50
8187.00	1.32	153.30	8184.71	-24.68	-31.14	231.61	39.74	-24.68	0.13
8282.00	1.58	158.57	8279.68	-26.88	-30.17	228.31	40.41	-26.88	0.31
8378.00	0.84	155.85	8375.66	-28.75	-29.40	225.64	41.12	-28.75	0.77
8473.00	0.40	209.90	8470.66	-29.67	-29.28	224.62	41.69	-29.67	0.72
8568.00	0.75	249.10	8565.65	-30.18	-30.03	224.85	42.58	-30.18	0.53
8664.00	0.97	244.27	8661.64	-30.76	-31.35	225.54	43.92	-30.76	0.24
8759.00	1.10	222.38	8756.62	-31.78	-32.69	225.80	45.59	-31.78	0.43
8855.00	1.49	227.39	8852.60	-33.31	-34.23	225.78	47.76	-33.31	0.42
8950.00	1.67	233.02	8947.56	-34.98	-36.24	226.02	50.37	-34.98	0.25
9046.00	1.23	240.58	9043.53	-36.32	-38.26	226.48	52.75	-36.32	0.50
9141.00	0.84	236.36	9138.52	-37.21	-39.72	226.87	54.43	-37.21	0.42
9237.00	0.62	240.14	9234.51	-37.86	-40.76	227.11	55.63	-37.86	0.23
9333.00	0.75	248.31	9330.50	-38.35	-41.80	227.46	56.72	-38.35	0.17
9428.00	0.84	230.91	9425.49	-39.02	-42.91	227.72	58.00	-39.02	0.27
9558.00	1.05	245.76	9555.48	-40.11	-44.74	228.12	60.09	-40.11	0.25
9653.00	0.66	21.11	9650.47	-39.96	-45.34	228.61	60.43	-39.96	1.67
9749.00	0.84	47.22	9746.46	-38.96	-44.62	228.87	59.24	-38.96	0.40
9844.00	0.44	20.32	9841.46	-38.15	-43.98	229.06	58.22	-38.15	0.52
9940.00	0.48	332.95	9937.45	-37.44	-44.04	229.63	57.80	-37.44	0.39
10035.00	0.22	350.61	10032.45	-36.91	-44.25	230.17	57.62	-36.91	0.29
10131.00	0.62	355.27	10128.45	-36.21	-44.32	230.75	57.23	-36.21	0.42
10226.00	0.40	359.93	10223.45	-35.37	-44.36	231.44	56.74	-35.37	0.24
10322.00	1.41	53.28	10319.43	-34.32	-43.42	231.67	55.35	-34.32	1.26
10417.00	1.80	60.22	10414.40	-32.88	-41.19	231.39	52.70	-32.88	0.46
10512.00	1.27	60.05	10509.36	-31.62	-38.98	230.95	50.19	-31.62	0.56
10606.00	0.79	38.87	10603.35	-30.59	-37.67	230.92	48.53	-30.59	0.64
10702.00	0.97	24.19	10699.34	-29.34	-36.92	231.53	47.16	-29.34	0.30
10797.00	1.23	2.57	10794.32	-27.58	-36.55	232.95	45.79	-27.58	0.51
10893.00	0.84	358.70	10890.30	-25.85	-36.52	234.70	44.74	-25.85	0.41
10988.00	0.57	331.01	10985.30	-24.74	-36.76	236.06	44.31	-24.74	0.45
11084.00	0.79	348.77	11081.29	-23.68	-37.12	237.47	44.03	-23.68	0.31
11179.00	0.66	317.92	11176.28	-22.63	-37.61	238.97	43.90	-22.63	0.43
11274.00	1.32	15.05	11271.27	-21.16	-37.70	240.69	43.23	-21.16	1.17

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
11369.00	1.89	22.52	11366.23	-18.66	-36.81	243.12	41.27	-18.66	0.64
11463.00	2.15	23.57	11460.17	-15.61	-35.51	246.27	38.79	-15.61	0.28
11558.00	2.15	23.92	11555.11	-12.35	-34.08	250.08	36.25	-12.35	0.01
11653.00	2.07	14.08	11650.04	-9.06	-32.94	254.63	34.16	-9.06	0.39
11748.00	1.93	18.65	11744.98	-5.88	-32.01	259.60	32.55	-5.88	0.22
11843.00	1.71	13.11	11839.94	-2.98	-31.18	264.54	31.32	-2.98	0.30
11929.00	1.71	14.08	11925.90	-0.49	-30.57	269.09	30.58	-0.49	0.03
12024.00	1.58	12.15	12020.86	2.17	-29.95	274.14	30.03	2.17	0.15
12120.00	1.58	7.40	12116.82	4.77	-29.50	279.19	29.89	4.77	0.14
12215.00	1.85	8.46	12211.78	7.59	-29.11	284.61	30.08	7.59	0.29
12311.00	1.76	10.65	12307.73	10.57	-28.61	290.28	30.50	10.57	0.12
12406.00	1.93	3.36	12402.68	13.60	-28.25	295.71	31.35	13.60	0.30
12502.00	2.20	6.08	12498.62	17.05	-27.96	301.38	32.74	17.05	0.30
12597.00	2.15	7.84	12593.55	20.63	-27.52	306.85	34.39	20.63	0.09
12693.00	1.98	8.90	12689.49	24.05	-27.02	311.67	36.17	24.05	0.18
12788.00	1.80	10.04	12784.44	27.14	-26.50	315.68	37.93	27.14	0.19
12884.00	1.93	3.27	12880.39	30.24	-26.15	319.15	39.98	30.24	0.27
12979.00	1.63	8.81	12975.34	33.17	-25.85	322.07	42.05	33.17	0.36
13074.00	1.63	4.59	13070.30	35.85	-25.54	324.54	44.02	35.85	0.13
13169.00	2.24	347.89	13165.25	39.02	-25.82	326.51	46.78	39.02	0.87
13296.00	1.89	352.55	13292.17	43.52	-26.61	328.56	51.01	43.52	0.31
13399.00	0.66	56.36	13395.14	45.53	-26.34	329.95	52.60	45.53	1.66
13455.00	1.67	127.46	13451.13	45.21	-25.42	330.66	51.87	45.21	2.83
13550.00	2.02	134.67	13546.08	43.19	-23.13	331.83	49.00	43.19	0.44
13645.00	0.66	154.79	13641.06	41.52	-21.71	332.40	46.85	41.52	1.49
13741.00	1.01	295.68	13737.05	41.39	-22.23	331.76	46.98	41.39	1.64
13801.00	2.68	301.40	13797.02	42.35	-23.91	330.55	48.63	42.35	2.80
13963.00	1.63	272.39	13958.91	44.42	-29.44	326.46	53.29	44.42	0.92
14058.00	1.05	210.69	14053.88	43.73	-31.24	324.46	53.74	43.73	1.54
14154.00	1.27	212.98	14149.86	42.08	-32.26	322.52	53.02	42.08	0.23
14250.00	1.98	200.76	14245.82	39.63	-33.43	319.85	51.85	39.63	0.82
14345.00	2.51	200.23	14340.75	36.15	-34.73	316.14	50.13	36.15	0.56
14441.00	2.99	197.95	14436.64	31.79	-36.23	311.27	48.20	31.79	0.51
14536.00	3.60	203.22	14531.48	26.70	-38.17	304.97	46.58	26.70	0.72
14632.00	3.96	205.95	14627.27	20.94	-40.81	297.17	45.87	20.94	0.42
14727.00	3.65	199.88	14722.07	15.15	-43.27	289.30	45.85	15.15	0.53
14821.00	3.65	199.88	14815.87	9.52	-45.31	281.87	46.30	9.52	0.00

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
14889.00	3.65	199.88	14883.74	5.45	-46.78	276.65	47.10	5.45	0.00

[illegible]

IPT PERSONNEL: Johnny Musso (Field Ops Manager), Stacy Winimer (Field Ops Manager), Trevor Smith (Drilling Engineer)
IPT VSS: Spike Medina, Jeff Jones, Tyler Bond, Mari Berceles, Jackson Velez

RECEIVED