

30-025-42583

5D Survey Report

GMT Exploration Co., LLC

Field Name: *Lea Co., New Mexico (NAD 83 NME)*

Site Name: *Soursop 5 State Com #2H*

Well Name: *Soursop 5 State Com #2H*

Survey: *Wft MWD Svy*

8 August 2015



Weatherford®

NOV 23 2015


Weatherford

Soursop 5 State Com #2H

Field Name: Lea Co., New Mexico (NAD 83 NME)	Map Units: US ft		Company Name: GMT Exploration Co., LLC	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
Site: Soursop 5 State Com #2H	Comment:			
	Units: US ft	North Reference: Grid	Convergence Angle: 0.50	
	Position:	Northing: 515630.05US ft	Latitude: 32° 24' 50.48"	
		Easting: 831599.49US ft	Longitude: -103° 23' 33.85"	
	Elevation above MSL:3602.50 US ft			
Comment:				
Slot: Soursop 5 State Com #2H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 515630.05US ft	Latitude: 32°24'50.48"	
	+E/-W: 0.00US ft	Easting: 831599.49US ft	Longitude: -103°23'33.85"	
	Elevation above MSL: 3602.50US ft			
	Comment:			
Well: Soursop 5 State Com #2H	Type:Main well		UWI:	
	File Number:	Comment:		
	Closure Distance:4798.68US ft		Closure Azimuth:359.52°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft		+E/-W: 0.00US ft	Az: 359.50°

Drill floor: Survey Name: Wft MWD Svy			
Rig Height (Well TVD Reference): 20.00US ft	Elevation above MSL: 3622.50US ft	Inclination: 0.00°	Azimuth: 0.00°

Survey Name: Wft MWD Svy			
Date: 14/Jul/2015	Survey Tool: MWD	Comment:	Company:
Magnetic Model:			
Model Name: BGGM	Date: 15/Jul/2015	Field Strength: 48371.1nT	Declination: 7.16°
			Dip: 60.36°
Tie Point:			
MD: 1843.26 US ft	Inclination: 0.20°	Azimuth: 49.20°	TVD: 1843.00 US ft
			North Offset: 15.93 US ft
			East Offset: -23.56 US ft

Wellpath created using minimum curvature.

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northings (US ft)	Easting (US ft)	Comment
1843.26	0.20	49.20	1843.00	15.93	-23.56	16.13	0.00	515645.98	831575.93	Tie On HPC Energy
2029.00	0.41	27.30	2028.74	16.73	-23.01	16.93	0.13	515646.78	831576.48	First Wft Svy
2124.00	0.74	30.08	2123.73	17.57	-22.55	17.76	0.35	515647.62	831576.94	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
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
2218.00	0.82	46.69	2217.72	18.55	-21.75	18.74	0.25	515648.60	831577.74	
2313.00	0.73	33.63	2312.72	19.52	-20.92	19.70	0.21	515649.57	831578.57	
2408.00	0.89	35.32	2407.71	20.63	-20.16	20.80	0.17	515650.68	831579.33	
2503.00	0.94	35.32	2502.69	21.87	-19.28	22.03	0.05	515651.92	831580.21	
2598.00	0.95	37.82	2597.68	23.12	-18.35	23.28	0.04	515653.17	831581.14	
2693.00	0.94	30.47	2692.67	24.42	-17.47	24.57	0.13	515654.47	831582.02	
2788.00	0.91	29.05	2787.66	25.75	-16.71	25.89	0.04	515655.80	831582.78	
2884.00	0.88	16.70	2883.64	27.12	-16.13	27.26	0.20	515657.17	831583.36	
2978.00	0.94	19.52	2977.63	28.54	-15.66	28.67	0.08	515658.59	831583.83	
3074.00	1.12	26.12	3073.62	30.12	-14.99	30.25	0.22	515660.17	831584.50	
3169.00	1.20	36.53	3168.60	31.76	-13.99	31.88	0.24	515661.81	831585.50	
3264.00	1.50	37.80	3263.57	33.54	-12.63	33.65	0.32	515663.59	831586.86	
3359.00	1.83	50.51	3358.53	35.49	-10.70	35.58	0.52	515665.54	831588.79	
3453.00	1.95	49.33	3452.48	37.48	-8.33	37.55	0.13	515667.53	831591.16	
3548.00	1.20	27.86	3547.44	39.42	-6.64	39.47	0.99	515669.47	831592.85	
3643.00	1.38	23.30	3642.42	41.35	-5.72	41.39	0.22	515671.40	831593.77	
3738.00	1.48	38.43	3737.39	43.36	-4.51	43.39	0.41	515673.41	831594.98	
3833.00	1.65	45.39	3832.36	45.28	-2.77	45.30	0.27	515675.33	831596.72	
3928.00	1.61	48.06	3927.32	47.13	-0.80	47.14	0.09	515677.18	831598.69	
4022.00	1.61	41.43	4021.28	49.00	1.05	48.99	0.20	515679.05	831600.54	
4118.00	1.63	39.58	4117.24	51.07	2.82	51.04	0.06	515681.12	831602.31	
4213.00	1.61	43.93	4212.20	53.07	4.60	53.03	0.13	515683.12	831604.09	
4308.00	1.59	38.73	4307.17	55.06	6.35	55.00	0.15	515685.11	831605.84	
4403.00	1.50	40.68	4402.13	57.03	7.99	56.96	0.11	515687.08	831607.48	
4497.00	1.70	29.83	4496.10	59.17	9.48	59.09	0.39	515689.22	831608.97	
4593.00	1.72	25.03	4592.05	61.71	10.80	61.62	0.15	515691.76	831610.29	
4687.00	1.57	31.02	4686.01	64.10	12.06	63.99	0.24	515694.15	831611.55	
4782.00	1.61	41.38	4780.98	66.21	13.61	66.09	0.31	515696.26	831613.10	
4877.00	1.68	45.75	4875.94	68.19	15.49	68.05	0.15	515698.24	831614.98	
4973.00	1.64	45.61	4971.90	70.13	17.48	69.97	0.04	515700.18	831616.97	
5068.00	1.78	45.45	5066.86	72.11	19.51	71.94	0.15	515702.16	831619.00	
5162.00	1.82	47.32	5160.81	74.15	21.64	73.96	0.08	515704.20	831621.13	
5257.00	1.83	52.15	5255.76	76.10	23.95	75.89	0.16	515706.15	831623.44	
5352.00	1.75	52.33	5350.72	77.92	26.30	77.69	0.08	515707.97	831625.79	
5435.00	1.73	49.94	5433.68	79.50	28.26	79.25	0.09	515709.55	831627.75	
5596.00	1.21	45.68	5594.62	82.25	31.34	81.98	0.33	515712.30	831630.83	
5628.00	1.31	42.56	5626.62	82.76	31.82	82.48	0.38	515712.81	831631.31	
5723.00	1.22	51.34	5721.59	84.19	33.35	83.90	0.22	515714.24	831632.84	
5818.00	1.27	48.46	5816.57	85.52	34.93	85.21	0.08	515715.57	831634.42	
5913.00	1.44	48.67	5911.54	87.01	36.61	86.68	0.18	515717.06	831636.10	
6008.00	1.44	49.47	6006.51	88.57	38.41	88.23	0.02	515718.62	831637.90	
6103.00	1.44	51.83	6101.48	90.08	40.26	89.73	0.06	515720.13	831639.75	
6198.00	1.60	48.00	6196.45	91.71	42.18	91.34	0.20	515721.76	831641.67	
6293.00	1.71	47.58	6291.41	93.55	44.22	93.16	0.12	515723.60	831643.71	
6388.00	1.62	47.76	6386.37	95.41	46.26	95.00	0.09	515725.46	831645.75	
6483.00	0.78	7.73	6481.35	96.96	47.34	96.54	1.20	515727.01	831646.83	
6578.00	0.78	18.78	6576.34	98.21	47.63	97.79	0.16	515728.26	831647.12	
6673.00	0.58	4.96	6671.34	99.30	47.88	98.88	0.27	515729.35	831647.37	
6768.00	0.66	4.15	6766.33	100.32	47.96	99.90	0.08	515730.37	831647.45	
6863.00	0.65	1.87	6861.32	101.41	48.02	100.99	0.03	515731.46	831647.51	
6958.00	0.71	14.62	6956.32	102.52	48.19	102.09	0.17	515732.57	831647.68	
7053.00	0.95	6.39	7051.31	103.87	48.42	103.44	0.28	515733.92	831647.91	
7148.00	0.14	317.02	7146.30	104.74	48.43	104.31	0.91	515734.79	831647.92	
7242.00	0.36	254.24	7240.30	104.74	48.07	104.32	0.34	515734.79	831647.56	
7337.00	0.43	284.31	7335.30	104.75	47.44	104.33	0.23	515734.80	831646.93	
7432.00	0.25	261.47	7430.30	104.80	46.89	104.39	0.23	515734.85	831646.38	
7528.00	0.30	292.01	7526.30	104.87	46.45	104.46	0.16	515734.92	831645.94	
7623.00	0.42	343.28	7621.29	105.29	46.12	104.89	0.35	515735.34	831645.61	
7718.00	0.22	350.58	7716.29	105.81	45.99	105.40	0.21	515735.86	831645.48	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
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
7814.00	0.29	5.91	7812.29	106.23	45.98	105.83	0.10	515736.28	831645.47	
7909.00	0.42	324.76	7907.29	106.76	45.80	106.35	0.29	515736.81	831645.29	
8004.00	0.58	147.65	8002.29	106.63	45.86	106.23	1.05	515736.68	831645.35	
8099.00	0.63	167.76	8097.28	105.72	46.23	105.31	0.23	515735.77	831645.72	
8194.00	0.78	158.73	8192.28	104.60	46.57	104.19	0.20	515734.65	831646.06	
8289.00	0.84	173.33	8287.27	103.31	46.89	102.90	0.23	515733.36	831646.38	
8383.00	0.55	163.21	8381.26	102.19	47.10	101.78	0.33	515732.24	831646.59	
8478.00	0.69	154.20	8476.25	101.24	47.48	100.82	0.18	515731.29	831646.97	
8573.00	0.56	144.47	8571.25	100.35	48.00	99.93	0.18	515730.40	831647.49	
8668.00	1.57	172.62	8666.23	98.68	48.44	98.25	1.17	515728.73	831647.93	
8763.00	1.26	149.26	8761.20	96.49	49.14	96.06	0.68	515726.54	831648.63	
8859.00	0.99	159.73	8857.19	94.81	49.96	94.37	0.35	515724.86	831649.45	
8953.00	0.80	149.33	8951.17	93.48	50.58	93.04	0.27	515723.53	831650.07	
9048.00	0.90	159.34	9046.16	92.21	51.18	91.76	0.19	515722.26	831650.67	
9143.00	0.53	173.83	9141.16	91.08	51.49	90.62	0.43	515721.13	831650.98	
9238.00	0.31	182.08	9236.15	90.38	51.53	89.93	0.24	515720.43	831651.02	
9333.00	0.21	331.18	9331.15	90.28	51.44	89.83	0.53	515720.33	831650.93	
9428.00	0.38	308.13	9426.15	90.63	51.11	90.18	0.21	515720.68	831650.60	
9491.00	0.45	290.09	9489.15	90.84	50.71	90.39	0.23	515720.89	831650.20	
9527.00	0.31	280.32	9525.15	90.91	50.48	90.46	0.43	515720.96	831649.97	
9559.00	0.99	286.08	9557.15	91.00	50.13	90.56	2.13	515721.05	831649.62	
9591.00	3.10	353.85	9589.13	91.94	49.77	91.50	8.99	515721.99	831649.26	
9623.00	6.82	339.75	9621.00	94.58	49.02	94.15	12.15	515724.63	831648.51	
9654.00	10.30	335.53	9651.65	98.83	47.23	98.41	11.40	515728.88	831646.72	
9686.00	13.09	340.23	9682.99	104.85	44.82	104.45	9.21	515734.90	831644.31	
9718.00	16.31	345.28	9713.94	112.60	42.46	112.23	10.82	515742.65	831641.95	
9750.00	20.28	346.53	9744.31	122.35	40.02	121.99	12.47	515752.40	831639.51	
9781.00	24.02	347.29	9773.02	133.73	37.38	133.40	12.10	515763.78	831636.87	
9813.00	27.11	349.88	9801.88	147.26	34.67	146.96	10.27	515777.31	831634.16	
9845.00	30.21	351.45	9829.96	162.41	32.19	162.12	9.97	515792.46	831631.68	
9876.00	32.56	352.92	9856.42	178.40	30.00	178.13	7.97	515808.45	831629.49	
9908.00	35.22	353.01	9882.99	196.11	27.81	195.86	8.31	515826.16	831627.30	
9940.00	37.83	353.61	9908.70	215.02	25.60	214.79	8.23	515845.07	831625.09	
9972.00	40.36	352.40	9933.53	235.05	23.14	234.84	8.26	515865.10	831622.63	
10004.00	42.58	353.63	9957.51	256.08	20.56	255.89	7.39	515886.13	831620.05	
10035.00	45.32	355.06	9979.83	277.49	18.45	277.32	9.40	515907.54	831617.94	
10067.00	48.50	356.37	10001.68	300.79	16.71	300.63	10.38	515930.84	831616.20	
10099.00	51.22	358.48	10022.31	325.22	15.62	325.07	9.88	515955.27	831615.11	
10131.00	54.39	359.69	10041.65	350.71	15.22	350.56	10.35	515980.76	831614.71	
10162.00	56.88	359.81	10059.15	376.29	15.11	376.15	8.04	516006.34	831614.60	
10194.00	58.83	359.03	10076.18	403.38	14.83	403.24	6.43	516033.43	831614.32	
10226.00	61.88	358.56	10092.00	431.19	14.25	431.05	9.62	516061.24	831613.74	
10258.00	65.66	358.28	10106.14	459.88	13.45	459.74	11.84	516089.93	831612.94	
10290.00	70.62	357.18	10118.06	489.54	12.27	489.42	15.82	516119.59	831611.76	
10322.00	75.51	356.31	10127.37	520.09	10.53	519.98	15.50	516150.14	831610.02	
10353.00	80.02	356.58	10133.94	550.32	8.66	550.23	14.57	516180.37	831608.15	
10385.00	82.71	356.60	10138.75	581.90	6.77	581.82	8.41	516211.95	831606.26	
10417.00	84.53	357.60	10142.30	613.66	5.17	613.59	6.48	516243.71	831604.66	
10449.00	87.27	357.89	10144.59	645.55	3.91	645.49	8.61	516275.60	831603.40	
10512.00	88.53	357.38	10146.90	708.45	1.31	708.42	2.16	516338.50	831600.80	
10642.00	89.44	357.46	10149.20	838.30	-4.54	838.31	0.70	516468.35	831594.95	
10682.00	90.14	358.51	10149.35	878.28	-5.95	878.29	3.15	516508.33	831593.54	
10776.00	89.51	0.08	10149.63	972.26	-7.10	972.29	1.80	516602.31	831592.39	
10871.00	91.54	359.98	10148.76	1067.26	-7.05	1067.28	2.14	516697.31	831592.44	
10966.00	91.12	358.85	10146.56	1162.22	-8.02	1162.25	1.27	516792.27	831591.47	
11061.00	90.07	359.32	10145.57	1257.20	-9.54	1257.24	1.21	516887.25	831589.95	
11156.00	89.16	359.93	10146.21	1352.20	-10.16	1352.24	1.15	516982.25	831589.33	
11251.00	91.75	359.60	10145.46	1447.19	-10.55	1447.22	2.75	517077.24	831588.94	
11346.00	89.65	358.77	10144.30	1542.16	-11.90	1542.21	2.38	517172.21	831587.59	

5D Survey Report

Survey Points: (Relative to Slot centre)(TVD relative to Well TVD Reference)										
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
11441.00	88.25	358.70	10146.04	1637.12	-14.00	1637.18	1.48	517267.17	831585.49	
11536.00	88.67	358.99	10148.59	1732.07	-15.91	1732.14	0.54	517362.12	831583.58	
11631.00	89.16	359.16	10150.39	1827.04	-17.45	1827.12	0.55	517457.09	831582.04	
11726.00	87.69	359.30	10153.00	1921.99	-18.72	1922.08	1.55	517552.04	831580.77	
11821.00	89.16	358.64	10155.61	2016.94	-20.43	2017.04	1.70	517646.99	831579.06	
11916.00	88.04	359.58	10157.93	2111.89	-21.90	2112.01	1.54	517741.94	831577.59	
12011.00	90.14	359.42	10159.44	2206.87	-22.73	2206.99	2.22	517836.92	831576.76	
12106.00	89.37	359.22	10159.85	2301.87	-23.86	2301.99	0.84	517931.92	831575.63	
12201.00	87.97	357.90	10162.05	2396.81	-26.25	2396.94	2.03	518026.86	831573.24	
12296.00	89.72	357.60	10163.97	2491.71	-29.98	2491.88	1.87	518121.76	831569.51	
12391.00	92.03	357.03	10162.52	2586.59	-34.43	2586.79	2.50	518216.64	831565.06	
12487.00	94.62	356.43	10156.95	2682.26	-39.89	2682.51	2.77	518312.31	831559.60	
12581.00	94.20	356.77	10149.72	2775.82	-45.45	2776.11	0.57	518405.87	831554.04	
12676.00	92.31	357.28	10144.33	2870.53	-50.37	2870.86	2.06	518500.58	831549.12	
12771.00	90.49	358.54	10142.01	2965.43	-53.83	2965.79	2.33	518595.48	831545.66	
12866.00	89.30	359.74	10142.18	3060.42	-55.26	3060.79	1.78	518690.47	831544.23	
12962.00	90.91	359.25	10142.00	3156.41	-56.11	3156.78	1.75	518786.46	831543.38	
13057.00	90.00	359.46	10141.25	3251.40	-57.18	3251.78	0.98	518881.45	831542.31	
13151.00	89.51	1.08	10141.65	3345.40	-56.73	3345.76	1.80	518975.45	831542.76	
13247.00	88.25	1.10	10143.53	3441.36	-54.91	3441.71	1.31	519071.41	831544.58	
13342.00	90.14	1.13	10144.86	3536.33	-53.06	3536.66	1.99	519166.38	831546.43	
13436.00	89.30	1.44	10145.32	3630.30	-50.95	3630.61	0.95	519260.35	831548.54	
13532.00	91.54	0.63	10144.62	3726.28	-49.22	3726.56	2.48	519356.33	831550.27	
13627.00	90.98	1.37	10142.53	3821.24	-47.56	3821.51	0.98	519451.29	831551.93	
13722.00	89.37	1.45	10142.24	3916.21	-45.22	3916.45	1.70	519546.26	831554.27	
13817.00	90.70	1.10	10142.18	4011.18	-43.11	4011.40	1.45	519641.23	831556.38	
13911.00	90.77	1.05	10140.98	4105.16	-41.34	4105.36	0.09	519735.21	831558.15	
14006.00	90.00	1.78	10140.34	4200.12	-39.00	4200.30	1.12	519830.17	831560.49	
14101.00	92.03	1.45	10138.65	4295.07	-36.32	4295.22	2.16	519925.12	831563.17	
14197.00	89.58	0.70	10137.31	4391.03	-34.52	4391.17	2.67	520021.08	831564.97	
14291.00	89.79	0.10	10137.82	4485.03	-33.86	4485.15	0.68	520115.08	831565.63	
14386.00	92.17	359.70	10136.20	4580.01	-34.03	4580.13	2.54	520210.06	831565.46	
14481.00	92.65	358.27	10132.20	4674.90	-35.71	4675.04	1.59	520304.95	831563.78	
14545.00	94.41	357.65	10128.26	4738.74	-37.98	4738.89	2.92	520368.79	831561.51	Last Wft Svy 2H
14605.00	94.41	357.65	10123.65	4798.51	-40.44	4798.68	0.00	520428.56	831559.05	Proj .To Bit