

HOBBS OCD
NOV 04 2015
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GMT Exploration Company
Well Bore Schematic - Not to Scale - Horizontal Well

Well Name : Sourstop 5 State Corn 2H
API No. : 30-025-42583
OGRID No. : 260511
Property Code : 314847
Surface Location : N-5-22S-35E
S/T/R : 35-22S-35E
Field : Ojo Chiso; Bone Spring South
Pool Code : 98136
County : Lea
State : New Mexico

Spud Date : 7/9/2015
Completion Date : 10/15/2015
G.L. Elevation : 3432
K.B. Elevation : 3440.5
Diagram Date : 7/23/2015
Revisions : WL

Casing Design

Type	Hole Size	Csg Size	Weight	Grade	Depth	Jts.	Cementing Details
							Lead: Class "C", 821 sx, 12.9 ppg, 10.7 gal/sk. Additives: 2% DO46 ANTI-FOAM 3PPS DO42 KOLITE 0.125 PPS D130 POLYF DISPE. Tail: Class "C", 451 sx, 14.8 ppg, 6.35 gals/sk. Additives: NE/
Surface	17 1/2	13 3/8	54.5	J-55	1912	44	Lead: "C" 145 sx, 12 ppg, 13.87 gals/sk. Additives: 26.0 pps POZ 3 extender 5% salt, 10.0% gel, 3 pps Kolite, 0.1% D065 d D046 r antifoam, 0.125 pps D130 polyflakes & 0.1% D013 ret Tail: Class "C", 200 sx, 14.8 ppg, 6.16 gals/sk. Additives: 0.2 foamer, 0.125 pps D130 poly-flakes, 3 pps Kolite & 0.2% D01
Intermediate	11	8 5/8	32	J55 & HCL80	5495	129	Lead: Class "H", 431 sx, 11.8 ppg, 15.154 gal/sk. Additives: b pps D035-CF LITEPOZ 3 extender cont'g 5% salt 10% D020 gr 0.2% D046 anti-foam 0.5% D800 retarder & 0.1% D208 visc "H", 788 sx, 13 ppg, 7.426 gal/sk. Additives: blended with 3; LITEPOZ 3 extender cont'g 7% D020 gel 0.4% D800 retarder 0.2% D046 antifoam & 0.2% D065 dispersant
Production	7 7/8	5 1/2	20	P110	14604	336	

Tubing String Design

Size	Weight	Grade	No. of Jts	Length	Depth	Type
			287	9494.00		

End of Tubing
Seating Nipple
TAC
Gas Sep ID
Gas Sep OD
Desander ID
Desander OD

Rods String Design

Rods	Length	Item

Kick off Point 9,559 MD 9,559 TVD
Lateral TD 14,605 MD 10,124 TVD
Float Collar 14,581 MD

See Frac Details Tab for Stimulation

JAN 05 2016

jm



McVAY DRILLING COMPANY
P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

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30-025-42583

Well Name and Num: Soursop 5 State Com #2H
Location: Sec 5, T22S, R35E
Operator: GMT
Drilling Contractor: McVay Drilling Company

The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
1.00	303	1.22	5723	70.60	10290		
1.20	649	1.71	6293	87.20	10449		
1.10	821	0.78	6578	89.60	14963		
1.00	1232	0.74	6958	90.70	11061		
0.80	1548	0.30	7528	89.44	10642		
0.30	1886	0.20	7909	88.20	11441		
0.41	2029	0.60	8099	87.70	11726		
0.74	2124	0.84	8289	88.40	11916		
0.95	2598	0.56	8573	92.03	1291		
0.94	2978	0.80	8953	92.03	12676		
1.95	3453	0.90	9048	89.30	12866		
1.61	3928	0.31	9238	90.14	13342		
1.72	4658	0.40	9491	90.98	13627		
1.78	5068	3.10	9591	92.03	14102		
1.75	5352	16.31	9718	92.47	14386		
1.73	5435	32.56	9876	94.40	14545		
1.21	5596	56.88	10165				

By: Mario G. Cana

Subscribed and sworn to before me this 12th day of August, 2015

Tina Flemens
Notary Public, Lea County, New Mexico



fm

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

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)			
	Comment:			
Site: Soursop 5 State Com #2H	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)	Northing (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

30-025-42583

HOBBS OCD

NOV 04 2015

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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®


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)			
	Comment:			
Site: Soursop 5 State Com #2H	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)	Northing (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