

SM ENERGY COMPANY

PARKWAY 35 FEDERAL COM WELL #4H
SECTION 35, T-19-S, R-29-E
EDDY COUNTY, NEW MEXICO

RECEIVED
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RKB. = 3338 (18' RKB + 3320' GL Elevation)
OBJ. = N 87.76 E

30015 39839

Survey Type		Depth MD	Angle	Azimuth	Direction	CL	Depth TVD	Depth SUBSEA	(+)North (-)South	(+)East (-)West	Vertical Section	Dogleg /100'
GMS	TI-IN	0.00	0.00	288.49°	N 71.51 W	---	0.00	-3338.00	0.00	0.00	0.00	TIE-IN
GMS	1	56.27	1.37	288.49°	N 71.51 W	56	56.26	-3281.74	0.21	-0.64	-0.63	2.43
GMS	2	151.76	1.42	293.56°	N 66.44 W	95	151.73	-3186.27	1.05	-2.81	-2.76	0.14
GMS	3	247.25	1.22	298.08°	N 61.92 W	95	247.19	-3090.81	2.00	-4.79	-4.70	0.24
GMS	4	342.74	1.23	297.88°	N 62.12 W	95	342.66	-2995.34	2.96	-6.59	-6.47	0.01
GMS	5	438.23	1.15	299.01°	N 60.99 W	95	438.13	-2899.87	3.91	-8.33	-8.17	0.09
GMS	6	533.72	0.96	336.08°	N 23.92 W	95	533.60	-2804.40	5.18	-9.50	-9.29	0.73
GMS	7	629.21	1.03	351.25°	N 8.75 W	95	629.08	-2708.92	6.77	-9.96	-9.69	0.28
GMS	8	724.70	1.02	351.96°	N 8.04 W	95	724.55	-2613.45	8.46	-10.21	-9.88	0.02
GMS	9	820.19	1.23	6.55°	N 6.55 E	95	820.02	-2517.98	10.33	-10.24	-9.83	0.37
GMS	10	915.68	2.40	24.89°	N 24.89 E	95	915.46	-2422.54	13.23	-9.42	-8.90	1.35
GMS	11	1011.17	2.57	37.71°	N 37.71 E	95	1010.86	-2327.14	16.76	-7.28	-6.62	0.61
GMS	12	1106.66	3.31	51.03°	N 51.03 E	95	1106.23	-2231.77	20.25	-3.86	-3.06	1.05
GMS	13	1202.15	3.73	59.60°	N 59.60 E	95	1201.54	-2136.46	23.58	0.96	1.88	0.70
GMS	14	1297.64	2.70	53.76°	N 53.76 E	95	1296.88	-2041.12	26.52	5.43	6.46	1.13
GMS	15	1393.13	2.21	50.60°	N 50.60 E	95	1392.28	-1945.72	29.03	8.66	9.79	0.53
GMS	16	1488.62	1.92	50.76°	N 50.76 E	95	1487.71	-1850.29	31.21	11.32	12.53	0.30
GMS	17	1584.11	2.39	47.40°	N 47.40 E	95	1583.13	-1754.87	33.56	14.04	15.34	0.51
GMS	18	1679.60	2.24	60.94°	N 60.94 E	95	1678.54	-1659.46	35.82	17.16	18.54	0.59
GMS	19	1775.09	2.60	60.51°	N 60.51 E	95	1773.95	-1564.05	37.79	20.67	22.13	0.38
GMS	20	1870.58	2.72	61.83°	N 61.83 E	95	1869.33	-1468.67	39.92	24.56	26.10	0.14
GMS	21	1966.07	2.85	60.56°	N 60.56 E	95	1964.71	-1373.29	42.16	28.62	30.25	0.15
GMS	22	2061.56	2.56	61.33°	N 61.33 E	95	2060.09	-1277.91	44.35	32.56	34.27	0.31
GMS	23	2157.05	2.37	61.45°	N 61.45 E	95	2155.49	-1182.51	46.32	36.17	37.95	0.20
GMS	24	2252.54	1.70	72.37°	N 72.37 E	95	2250.92	-1087.08	47.64	39.28	41.11	0.81
GMS	25	2348.03	1.63	90.28°	S 89.72 E	95	2346.37	-991.63	48.06	42.01	43.86	0.55
GMS	26	2443.52	1.69	74.78°	N 74.78 E	95	2441.82	-896.18	48.42	44.75	46.60	0.47
GMS	27	2539.01	1.48	69.23°	N 69.23 E	95	2537.28	-800.72	49.23	47.26	49.15	0.27



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Survey Type		Depth MD	Angle	Azimuth	Direction		CL	Depth TVD	Depth SUBSEA	(+)North (-)South	(+)East (-)West	Vertical Section	Dogleg /100'	
GMS	28	2634.50	1.23	79.30°	N	79.30	E	95	2632.74	-705.26	49.85	49.43	51.34	0.36
GMS	29	2729.99	1.13	73.74°	N	73.74	E	95	2728.21	-609.79	50.30	51.34	53.27	0.16
GMS	30	2825.48	1.07	63.19°	N	63.19	E	95	2823.68	-514.32	50.98	53.04	54.99	0.22
GMS	31	2920.97	1.24	58.63°	N	58.63	E	95	2919.15	-418.85	51.91	54.72	56.71	0.20
GMS	32	3016.46	1.13	20.22°	N	20.22	E	95	3014.62	-323.38	53.41	55.95	58.00	0.82
GMS	33	3111.95	1.57	13.32°	N	13.32	E	95	3110.09	-227.91	55.56	56.60	58.73	0.49
GMS	34	3207.44	1.68	355.94°	N	4.06	W	95	3205.54	-132.46	58.25	56.82	59.05	0.53
GMS	35	3302.93	1.30	353.16°	N	6.84	W	95	3300.99	-37.01	60.72	56.59	58.92	0.40
GMS	36	3398.42	1.39	345.45°	N	14.55	W	95	3396.46	58.46	62.92	56.17	58.59	0.21
GMS	37	3493.91	1.54	347.22°	N	12.78	W	95	3491.92	153.92	65.29	55.59	58.10	0.16
GMS	38	3589.40	1.33	351.42°	N	8.58	W	95	3587.38	249.38	67.64	55.15	57.75	0.25
GMS	39	3684.89	1.20	14.99°	N	14.99	E	95	3682.84	344.84	69.73	55.27	57.95	0.56
GMS	40	3780.38	1.44	352.78°	N	7.22	W	95	3778.31	440.31	71.91	55.41	58.18	0.59
GMS	41	3875.87	1.38	358.92°	N	1.08	W	95	3873.77	535.77	74.26	55.24	58.11	0.17
GMS	42	3971.36	1.38	357.32°	N	2.68	W	95	3969.23	631.23	76.56	55.17	58.12	0.04
GMS	43	4066.85	1.15	357.00°	N	3.00	W	95	4064.70	726.70	78.66	55.07	58.10	0.24
GMS	44	4162.34	1.19	356.94°	N	3.06	W	95	4160.17	822.17	80.61	54.96	58.07	0.04
GMS	45	4257.83	1.59	353.05°	N	6.95	W	95	4255.63	917.63	82.92	54.76	57.96	0.43
GMS	46	4353.32	1.30	3.44°	N	3.44	E	95	4351.09	1013.09	85.32	54.69	57.98	0.41
GMS	47	4448.81	1.39	5.76°	N	5.76	E	95	4446.55	1108.55	87.55	54.87	58.25	0.11
GMS	48	4544.30	1.72	357.97°	N	2.03	W	95	4542.01	1204.01	90.14	54.95	58.43	0.41
GMS	49	4639.79	1.48	2.19°	N	2.19	E	95	4637.46	1299.46	92.81	54.95	58.54	0.28
GMS	50	4735.28	1.85	4.21°	N	4.21	E	95	4732.91	1394.91	95.58	55.11	58.80	0.39
GMS	51	4830.77	1.90	6.12°	N	6.12	E	95	4828.35	1490.35	98.69	55.39	59.21	0.08
GMS	52	4926.26	1.65	10.16°	N	10.16	E	95	4923.79	1585.79	101.62	55.81	59.74	0.29
GMS	53	5021.75	1.70	7.14°	N	7.14	E	95	5019.24	1681.24	104.37	56.23	60.27	0.11
GMS	54	5117.24	2.01	6.33°	N	6.33	E	95	5114.68	1776.68	107.44	56.59	60.75	0.33
GMS	55	5212.73	1.91	15.25°	N	15.25	E	95	5210.12	1872.12	110.65	57.20	61.48	0.34



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Survey Type		Depth MD	Angle	Azimuth	Direction			CL	Depth TVD	Depth SUBSEA	(+)North (-)South	(+)East (-)West	Vertical Section	Dogleg /100'
GMS	56	5308.22	2.02	18.05°	N	18.05	E	95	5305.55	1967.55	113.79	58.14	62.54	0.15
GMS	57	5403.71	2.11	18.19°	N	18.19	E	95	5400.98	2062.98	117.06	59.21	63.74	0.09
GMS	58	5499.20	2.11	11.61°	N	11.61	E	95	5496.40	2158.40	120.45	60.11	64.78	0.25
GMS	59	5594.69	2.07	17.35°	N	17.35	E	95	5591.83	2253.83	123.82	60.98	65.78	0.22
GMS	60	5690.18	2.15	3.41°	N	3.41	E	95	5687.26	2349.26	127.27	61.62	66.54	0.54
GMS	61	5785.67	2.08	16.12°	N	16.12	E	95	5782.68	2444.68	130.74	62.21	67.27	0.50
GMS	62	5881.16	1.98	16.63°	N	16.63	E	95	5878.11	2540.11	133.98	63.17	68.35	0.11
GMS	63	5976.65	1.60	3.08°	N	3.08	E	95	5973.55	2635.55	136.92	63.68	68.98	0.59
GMS	64	6072.14	2.00	358.23°	N	1.77	W	95	6069.00	2731.00	139.91	63.71	69.13	0.45
GMS	65	6167.63	1.92	355.17°	N	4.83	W	95	6164.43	2826.43	143.17	63.52	69.07	0.14
GMS	66	6263.12	1.78	351.33°	N	8.67	W	95	6259.87	2921.87	146.23	63.16	68.83	0.20
GMS	67	6358.61	1.60	346.28°	N	13.72	W	95	6355.32	3017.32	149.00	62.61	68.39	0.24
GMS	68	6454.10	1.58	329.11°	N	30.89	W	95	6450.77	3112.77	151.44	61.61	67.48	0.50
GMS	69	6549.59	1.39	328.36°	N	31.64	W	95	6546.23	3208.23	153.55	60.33	66.28	0.20
GMS	70	6645.08	2.13	322.06°	N	37.94	W	95	6641.67	3303.67	155.96	58.65	64.71	0.80
GMS	71	6740.57	1.88	321.72°	N	38.28	W	95	6737.11	3399.11	158.59	56.59	62.75	0.26
GMS	72	6836.06	1.71	322.30°	N	37.70	W	95	6832.55	3494.55	160.95	54.75	61.00	0.18
GMS	73	6931.55	1.71	323.47°	N	36.53	W	95	6928.00	3590.00	163.22	53.03	59.37	0.04
GMS	74	7027.04	1.63	314.03°	N	45.97	W	95	7023.45	3685.45	165.31	51.20	57.62	0.30
GMS	75	7122.53	1.66	312.93°	N	47.07	W	95	7118.90	3780.90	167.20	49.21	55.71	0.05
GMS	76	7218.02	1.68	310.68°	N	49.32	W	95	7214.35	3876.35	169.05	47.14	53.71	0.07
GMS	77	7313.51	1.76	309.80°	N	50.20	W	95	7309.79	3971.79	170.90	44.95	51.59	0.09
GMS	78	7409.00	1.55	307.80°	N	52.20	W	95	7405.24	4067.24	172.63	42.80	49.51	0.23
MWD	79	7491.00	1.40	316.00°	N	44.00	W	82	7487.22	4149.22	174.04	41.23	48.00	0.32
MWD	80	7554.00	0.90	307.60°	N	52.40	W	63	7550.20	4212.20	174.88	40.29	47.09	0.84
MWD	81	7586.00	1.40	122.30°	S	57.70	E	32	7582.20	4244.20	175.23	40.53	47.35	7.18
MWD	82	7618.00	4.80	129.00°	S	51.00	E	32	7614.15	4276.15	174.22	41.93	48.71	10.67
MWD	83	7650.00	7.90	129.70°	S	50.30	E	32	7645.94	4307.94	171.97	44.67	51.36	9.69

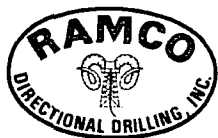


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Survey Type		Depth MD	Angle	Azimuth	Direction		CL	Depth TVD	Depth SUBSEA	(+)North (-)South	(+)East (-)West	Vertical Section	Dogleg /100'
MWD	84	7681.00	11.10	126.90°	S	53.10 E	31	7676.52	4338.52	168.80	48.68	55.24	10.43
MWD	85	7713.00	14.10	122.50°	S	57.50 E	32	7707.74	4369.74	164.83	54.42	60.82	9.84
MWD	86	7745.00	16.50	118.10°	S	61.90 E	32	7738.61	4400.61	160.57	61.71	67.94	8.33
MWD	87	7777.00	19.20	116.10°	S	63.90 E	32	7769.06	4431.06	156.10	70.44	76.49	8.65
MWD	88	7808.00	22.50	113.80°	S	66.20 E	31	7798.03	4460.03	151.45	80.44	86.30	10.97
MWD	89	7840.00	25.90	110.20°	S	69.80 E	32	7827.21	4489.21	146.54	92.60	98.26	11.58
MWD	90	7872.00	29.20	108.20°	S	71.80 E	32	7855.58	4517.58	141.67	106.58	112.03	10.71
MWD	91	7893.00	31.50	107.90°	S	72.10 E	21	7873.70	4535.70	138.38	116.66	121.98	10.98
MWD	92	7925.00	33.30	106.30°	S	73.70 E	32	7900.72	4562.72	133.34	133.05	138.16	6.23
MWD	93	7956.00	33.60	105.80°	S	74.20 E	31	7926.58	4588.58	128.62	149.47	154.38	1.31
MWD	94	7988.00	35.90	105.80°	S	74.20 E	32	7952.87	4614.87	123.65	167.02	171.73	7.19
MWD	95	8020.00	38.90	103.80°	S	76.20 E	32	7978.29	4640.29	118.69	185.81	190.31	10.11
MWD	96	8052.00	41.90	103.70°	S	76.30 E	32	8002.66	4664.66	113.76	205.95	210.24	9.38
MWD	97	8084.00	45.20	103.30°	S	76.70 E	32	8025.85	4687.85	108.61	227.39	231.46	10.35
MWD	98	8115.00	49.30	103.80°	S	76.20 E	31	8046.89	4708.89	103.28	249.51	253.36	13.28
MWD	99	8147.00	53.80	103.70°	S	76.30 E	32	8066.78	4728.78	97.33	273.85	277.44	14.06
MWD	100	8179.00	58.60	104.00°	S	76.00 E	32	8084.58	4746.58	90.96	299.66	302.99	15.02
MWD	101	8211.00	62.30	104.50°	S	75.50 E	32	8100.35	4762.35	84.11	326.64	329.68	11.64
MWD	102	8243.00	66.00	104.20°	S	75.80 E	32	8114.31	4776.31	76.97	354.53	357.27	11.59
MWD	103	8274.00	70.20	103.70°	S	76.30 E	31	8125.87	4787.87	70.04	382.44	384.89	13.63
MWD	104	8306.00	74.10	103.70°	S	76.30 E	32	8135.67	4797.67	62.83	412.03	414.17	12.19
MWD	105	8338.00	78.10	104.00°	S	76.00 E	32	8143.36	4805.36	55.40	442.18	444.01	12.53
MWD	106	8370.00	83.40	103.70°	S	76.30 E	32	8148.50	4810.50	47.84	472.84	474.34	16.59
MWD	107	8457.00	90.10	104.20°	S	75.80 E	87	8153.43	4815.43	26.91	557.09	557.71	7.72
MWD	108	8521.00	90.10	104.50°	S	75.50 E	64	8153.32	4815.32	11.05	619.09	619.05	0.47
MWD	109	8616.00	88.70	102.10°	S	77.90 E	95	8154.31	4816.31	-10.80	711.53	710.56	2.92
MWD	110	8711.00	88.90	101.00°	S	79.00 E	95	8156.30	4818.30	-29.82	804.58	802.80	1.18
MWD	111	8807.00	88.20	98.20°	S	81.80 E	96	8158.73	4820.73	-45.82	899.20	896.72	3.01



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MWD	112	8902.00	88.70	95.60°	S	84.40	E	95	8161.30	4823.30	-57.23	993.47	990.47	2.79
MWD	113	8998.00	88.50	91.50°	S	88.50	E	96	8163.65	4825.65	-63.17	1089.23	1085.93	4.27
MWD	114	9093.00	88.90	89.40°	N	89.40	E	95	8165.80	4827.80	-63.92	1184.20	1180.80	2.25
MWD	115	9188.00	89.70	86.80°	N	86.80	E	95	8166.96	4828.96	-60.77	1279.13	1275.78	2.86
MWD	116	9284.00	89.20	85.40°	N	85.40	E	96	8167.88	4829.88	-54.24	1374.90	1371.73	1.55
MWD	117	9379.00	88.50	84.00°	N	84.00	E	95	8169.79	4831.79	-45.47	1469.47	1466.57	1.65
MWD	118	9475.00	88.20	84.50°	N	84.50	E	96	8172.55	4834.55	-35.85	1564.95	1562.35	0.61
MWD	119	9570.00	88.70	86.30°	N	86.30	E	95	8175.12	4837.12	-28.24	1659.61	1657.23	1.97
MWD	120	9665.00	88.20	85.70°	N	85.70	E	95	8177.69	4839.69	-21.61	1754.34	1752.15	0.82
MWD	121	9761.00	88.50	85.50°	N	85.50	E	96	8180.46	4842.46	-14.25	1850.02	1848.05	0.38
MWD	122	9856.00	88.00	85.20°	N	85.20	E	95	8183.36	4845.36	-6.55	1944.66	1942.92	0.61
MWD	123	9951.00	89.90	85.50°	N	85.50	E	95	8185.10	4847.10	1.15	2039.33	2037.81	2.02
MWD	124	10047.00	89.20	84.50°	N	84.50	E	96	8185.85	4847.85	9.51	2134.96	2133.70	1.27
MWD	125	10143.00	89.60	83.10°	N	83.10	E	96	8186.86	4848.86	19.88	2230.39	2229.46	1.52
MWD	126	10238.00	88.30	84.10°	N	84.10	E	95	8188.60	4850.60	30.47	2324.78	2324.19	1.73
MWD	127	10333.00	87.30	84.50°	N	84.50	E	95	8192.25	4854.25	39.90	2419.23	2418.95	1.13
MWD	128	10428.00	88.30	83.80°	N	83.80	E	95	8195.89	4857.89	49.57	2513.67	2513.68	1.28
MWD	129	10524.00	89.40	85.00°	N	85.00	E	96	8197.82	4859.82	58.94	2609.19	2609.50	1.70
MWD	130	10619.00	88.90	83.10°	N	83.10	E	95	8199.23	4861.23	68.78	2703.66	2704.28	2.07
MWD	131	10715.00	89.00	84.70°	N	84.70	E	96	8200.99	4862.99	78.98	2799.10	2800.05	1.67
MWD	132	10810.00	88.50	86.30°	N	86.30	E	95	8203.06	4865.06	86.43	2893.78	2894.95	1.76
MWD	133	10905.00	88.70	86.40°	N	86.40	E	95	8205.38	4867.38	92.48	2988.56	2989.89	0.24
MWD	134	11000.00	89.20	87.80°	N	87.80	E	95	8207.12	4869.12	97.29	3083.42	3084.86	1.56
MWD	135	11096.00	88.70	87.10°	N	87.10	E	96	8208.88	4870.88	101.56	3179.31	3180.85	0.90
MWD	136	11192.00	89.70	88.00°	N	88.00	E	96	8210.22	4872.22	105.66	3275.21	3276.83	1.40
MWD	137	11287.00	89.20	87.80°	N	87.80	E	95	8211.13	4873.13	109.14	3370.14	3371.83	0.57
MWD	138	11383.00	88.20	86.80°	N	86.80	E	96	8213.31	4875.31	113.66	3466.00	3467.80	1.47
MWD	139	11479.00	87.80	87.80°	N	87.80	E	96	8216.66	4878.66	118.18	3561.84	3563.74	1.12



SM ENERGY COMPANY

PARKWAY 35 FEDERAL COM WELL #4H
SECTION 35, T-19-S, R-29-E
EDDY COUNTY, NEW MEXICO

RKB. = 3338 (18' RKB + 3320' GL Elevation)
 OBJ. = N 87.76 E

Survey Type		Depth MD	Angle	Azimuth	Direction		CL	Depth TVD	Depth SUBSEA	(+)North (-)South	(+)East (-)West	Vertical Section	Dogleg /100'
MWD	140	11574.00	86.90	89.10°	N	89.10 E	95	8221.05	4883.05	120.75	3656.70	3658.62	1.66
MWD	141	11670.00	87.80	89.20°	N	89.20 E	96	8225.49	4887.49	122.17	3752.58	3754.49	0.94
MWD	142	11765.00	88.70	89.90°	N	89.90 E	95	8228.39	4890.39	122.92	3847.54	3849.40	1.20
MWD	143	11861.00	89.20	90.10°	S	89.90 E	96	8230.15	4892.15	122.92	3943.52	3945.31	0.56
MWD	144	11956.00	89.20	89.40°	N	89.40 E	95	8231.48	4893.48	123.33	4038.51	4040.24	0.74
MWD	145	12052.00	88.50	89.90°	N	89.90 E	96	8233.41	4895.41	123.92	4134.49	4136.17	0.90
MWD	146	12148.00	88.30	89.90°	N	89.90 E	96	8236.09	4898.09	124.08	4230.45	4232.07	0.21
MWD	147	12243.00	88.20	89.40°	N	89.40 E	95	8238.99	4900.99	124.66	4325.40	4326.97	0.54
MWD	148	12339.00	87.30	88.90°	N	88.90 E	96	8242.76	4904.76	126.09	4421.32	4422.87	1.07
MWD	149	12434.00	86.70	88.70°	N	88.70 E	95	8247.73	4909.73	128.07	4516.16	4517.72	0.67
MWD	150	12466.00	86.40	88.90°	N	88.90 E	32	8249.65	4911.65	128.74	4548.10	4549.66	1.13
PROJ	151	12529.00	86.40	88.90°	N	88.90 E	63	8253.61	4915.61	129.95	4610.96	4612.52	0.00