

SURVEY REPORT



Job #: 171258
 Well: Encore M State 11
 Target Formation: N/A
 County & State: Lea Co. NM

North Type: Grid
 Total Correction: 6.14°
 Target TVD: 7600.00 ft
 Vertical Section Azm: 0.00°

SURVEY DATA

Date	No.	MD	INC	AZM	C.L	TVD	VS	N/-S	E/-W	DLS	BHA
11/19/17	0	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	Surface
11/19/17	1	87.05	0.96	80.91	87	87.05	0.12	0.12	0.72	1.10	Gyro
11/19/17	2	175.01	1.03	85.04	88	174.99	0.30	0.30	2.24	0.11	Gyro
11/19/17	3	266.83	1.07	84.98	92	266.80	0.45	0.45	3.91	0.04	Gyro
11/19/17	4	356.24	1.07	96.76	89	356.19	0.42	0.42	5.57	0.25	Gyro
11/19/17	5	446.82	1.03	89.34	91	446.76	0.33	0.33	7.23	0.16	Gyro
11/19/17	6	538.96	0.98	98.14	92	538.88	0.23	0.23	8.83	0.18	Gyro
11/19/17	7	631.01	0.87	103.24	92	630.92	-0.04	-0.04	10.29	0.15	Gyro
11/19/17	8	724.29	0.64	96.57	93	724.19	-0.26	-0.26	11.50	0.26	Gyro
11/19/17	9	816.89	0.54	103.87	93	816.79	-0.43	-0.43	12.44	0.13	Gyro
11/19/17	10	909.43	0.60	104.84	93	909.32	-0.66	-0.66	13.33	0.07	Gyro
11/19/17	11	1,001.82	0.59	109.75	92	1001.71	-0.94	-0.94	14.25	0.06	Gyro
11/19/17	12	1,094.33	0.52	104.75	93	1094.21	-1.21	-1.21	15.10	0.09	Gyro
11/19/17	13	1,168.90	0.59	104.84	75	1168.78	-1.39	-1.39	15.80	0.09	Gyro
11/21/17	14	1,244.00	0.62	103.26	75	1243.88	-1.59	-1.59	16.57	0.05	1
11/21/17	15	1,337.00	0.88	110.38	93	1336.87	-1.95	-1.95	17.73	0.30	1
11/21/17	16	1,522.00	0.92	115.83	185	1521.85	-3.09	-3.09	20.39	0.05	1
11/21/17	17	1,614.00	1.12	111.79	92	1613.83	-3.75	-3.75	21.89	0.23	1
11/21/17	18	1,799.00	1.67	100.10	185	1798.78	-4.89	-4.89	26.23	0.33	1
11/21/17	19	1,984.00	2.15	92.54	185	1983.67	-5.52	-5.52	32.35	0.29	1
11/21/17	20	2,169.00	1.41	68.37	185	2168.58	-4.83	-4.83	37.93	0.56	1
11/21/17	21	2,354.00	1.96	65.64	185	2353.50	-2.69	-2.69	42.93	0.30	1
11/21/17	22	2,539.00	1.63	30.93	185	2538.42	0.87	0.87	47.16	0.60	1
11/21/17	23	2,725.00	1.19	13.35	186	2724.36	5.02	5.02	48.97	0.33	1
11/21/17	24	2,909.00	0.73	357.09	184	2908.34	8.05	8.05	49.35	0.29	1
11/22/17	25	3,095.00	0.94	2.54	186	3094.32	10.76	10.76	49.36	0.12	1
11/22/17	26	3,280.00	1.14	359.55	185	3279.29	14.12	14.12	49.41	0.11	1
11/22/17	27	3,465.00	1.38	0.08	185	3464.24	18.18	18.18	49.40	0.13	1
11/22/17	28	3,650.00	1.80	359.20	185	3649.17	23.32	23.32	49.36	0.23	1
11/22/17	29	3,836.00	1.56	4.03	186	3835.09	28.76	28.76	49.50	0.15	1
11/22/17	30	4,021.00	1.91	3.77	185	4020.00	34.35	34.35	49.88	0.19	1
11/22/17	31	4,206.00	2.11	1.66	185	4204.89	40.83	40.83	50.18	0.12	1
11/23/17	32	4,391.00	2.15	348.83	185	4389.76	47.64	47.64	49.61	0.26	1
11/23/17	33	4,480.00	2.15	348.91	89	4478.70	50.92	50.92	48.96	0.00	1
11/26/17	34	4,570.00	2.48	349.53	90	4568.63	54.49	54.49	48.28	0.37	2
11/26/17	35	4,755.00	2.64	351.37	185	4753.44	62.64	62.64	46.92	0.10	2
11/26/17	36	4,940.00	2.70	354.98	185	4938.24	71.19	71.19	45.90	0.10	2
11/26/17	37	5,032.00	2.94	352.52	92	5030.13	75.69	75.69	45.40	0.29	2
11/26/17	38	5,217.00	1.21	337.49	185	5215.00	82.20	82.20	44.03	0.97	2
11/26/17	39	5,401.00	1.19	335.47	184	5398.96	85.73	85.73	42.50	0.03	2
11/26/17	40	5,586.00	1.25	340.12	185	5583.92	89.37	89.37	41.01	0.06	2
11/26/17	41	5,771.00	1.36	343.46	185	5768.87	93.38	93.38	39.70	0.07	2
11/26/17	42	5,956.00	1.49	346.72	185	5953.82	97.82	97.82	38.52	0.08	2
11/26/17	43	6,141.00	1.45	343.55	185	6138.75	102.41	102.41	37.31	0.05	2
11/27/17	44	6,330.00	1.34	349.53	189	6327.70	106.87	106.87	36.23	0.10	2
11/27/17	45	6,520.00	1.34	346.63	190	6517.65	111.22	111.22	35.31	0.04	2
11/27/17	46	6,709.00	1.41	350.49	189	6706.59	115.66	115.66	34.42	0.06	2
11/27/17	47	6,898.00	1.58	1.75	189	6895.53	120.56	120.56	34.11	0.18	2
11/27/17	48	7,088.00	1.60	1.83	190	7085.46	125.83	125.83	34.28	0.01	2
11/27/17	49	7,275.00	1.56	357.70	187	7272.38	130.98	130.98	34.26	0.06	2
11/27/17	50	7,465.00	1.58	1.92	190	7462.31	136.19	136.19	34.24	0.06	2
11/27/17	51	7,535.00	1.87	358.67	70	7532.28	138.29	138.29	34.25	0.44	2
PROJ	52	7,600.00	1.87	358.67	65	7597.25	140.41	140.41	34.20	0.00	PROJ