

API#: 30-015-42116

KAMBI TEXAS LP MWD SURVEY REPORT

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 16 2014

RECEIVED

Company: Lime Rock Resources
Well: Williams A Federal #16
Location: Eddy Co., N.M.
Rig: UDI 33Job Number: KTX-150
Magnetic Decl.: 7.68
Grid Corr.:
Total Grid Corr.: 7.68Calculation Method: Minimum Curvature
Proposed Azimuth: 86.2
WELL API #: 30-015-42116
Tie Into: Surface

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')
								N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)		
Tie	GL	0	0.00	0.00	0	0	0	0	0	0	0	0	0
1	MWD	467.00	1.00	254.10	467	466.98	-3.98	1.12 S	3.92 W	4.08	254.10	0.21	0.21
2	MWD	558.00	1.50	165.40	91	557.96	-4.54	2.49 S	4.38 W	5.04	240.43	1.96	0.55
3	MWD	654.00	3.80	134.00	96	653.86	-2.17	5.91 S	1.78 W	6.17	196.73	2.75	2.40
4	MWD	750.00	5.70	117.40	96	749.53	4.05	10.32 S	4.74 E	11.36	155.30	2.42	1.98
5	MWD	846.00	5.70	100.10	96	845.06	12.76	13.35 S	13.67 E	19.11	134.31	1.78	0.00
6	MWD	942.00	5.10	106.60	96	940.63	21.38	15.40 S	22.45 E	27.23	124.45	0.89	-0.63
7	MWD	1038.00	4.70	108.10	96	1036.28	29.03	17.84 S	30.28 E	35.15	120.51	0.44	-0.42
8	MWD	1134.00	5.30	104.90	96	1131.92	36.88	20.21 S	38.30 E	43.31	117.81	0.69	0.63
9	MWD	1230.00	5.00	105.20	96	1227.53	45.04	22.44 S	46.63 E	51.75	115.70	0.31	-0.31
10	MWD	1326.00	4.30	104.60	96	1323.21	52.41	24.45 S	54.15 E	59.41	114.30	0.73	-0.73
11	MWD	1423.00	4.90	104.40	97	1419.90	59.79	26.39 S	61.68 E	67.09	113.17	0.62	0.62
12	MWD	1550.00	4.80	95.20	127	1546.45	70.19	28.22 S	72.22 E	77.54	111.34	0.62	-0.08
13	MWD	1646.00	7.20	71.00	96	1641.93	79.97	26.63 S	81.91 E	86.13	108.01	3.58	2.50
14	MWD	1741.00	8.80	61.60	95	1736.00	92.32	21.23 S	93.94 E	96.31	102.74	2.17	1.68
15	MWD	1844.00	9.30	49.60	103	1837.73	106.17	12.09 S	107.21 E	107.89	96.44	1.89	0.49
16	MWD	1940.00	9.00	48.40	96	1932.51	118.33	2.08 S	118.73 E	118.75	91.00	0.37	-0.31
17	MWD	2037.00	5.00	47.10	97	2028.77	127.61	5.84 N	127.50 E	127.64	87.38	4.13	-4.12
18	MWD	2133.00	1.80	57.30	96	2124.59	132.18	9.50 N	131.84 E	132.18	85.88	3.38	-3.33
19	MWD	2229.00	0.20	245.70	96	2220.57	133.34	10.25 N	132.95 E	133.35	85.59	2.08	-1.67
20	MWD	2421.00	0.40	245.10	192	2412.57	132.40	9.83 N	132.04 E	132.41	85.74	0.10	0.10
21	MWD	2613.00	0.40	266.30	192	2604.56	131.11	9.50 N	130.76 E	131.11	85.84	0.08	0.00
22	MWD	2709.00	0.40	255.90	96	2700.56	130.44	9.40 N	130.10 E	130.44	85.87	0.08	0.00
23	MWD	2804.00	0.40	194.40	95	2795.56	130.01	9.00 N	129.70 E	130.01	86.03	0.43	0.00
24	MWD	2997.00	0.60	173.40	193	2988.55	129.85	7.34 N	129.65 E	129.86	86.76	0.14	0.10
25	MWD	3190.00	0.60	173.10	193	3181.54	129.95	5.33 N	129.89 E	130.00	87.65	0.00	0.00
26	MWD	3382.00	0.60	147.30	192	3373.53	130.49	3.49 N	130.55 E	130.60	88.47	0.14	0.00
27	MWD	3562.00	0.50	147.40	180	3553.52	131.33	2.04 N	131.48 E	131.50	89.11	0.06	-0.06
Proj at bit		3609.00	0.50	147.40	47	3600.52	131.53	1.69 N	131.70 E	131.71	89.26	0.00	0.00

State of New Mexico
County of Eddy

Williams A Federal #16 Surveys - Signed & Certified

