NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 06 2014
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KAMBI TEXAS LP - MWD SURVEY REPORT

API #: 30-015-41834

Company:	Lime Rock Resources	Job Number:	KTX-148	Calculation Method	Minimum Curvature
Well:	Southern Union 30G State #3	Magnetic Decl.:	7.63	Proposed Azimuth	89.6
Location:	Eddy Co., N.M.	Grid Corr.:		WELL API #	30-015-41834
Rig:	UDI 33	Total Grid Corr.:	7.63	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 N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')
Tie	GL	0	0.00	0.00	0	0	0	0	#	0		0	0	0	0
1	MWD	465.00	0.30	161.50	465	465.00	0.38	1.15	S	0.39	E	1.22	161.50	0.06	0.06
2	MWD	555.00	2.30	82.90	90	554.97	2.25	1.15	S	2.25	E	2.53	117.13	2.51	2.22
3	MWD	651.00	5.70	84.90	96	650.72	8.91	0.49	S	8.92	E	8.93	93.16	3.54	3.54
4	MWD	747.00	7.50	92.10	96	746.09	19.92	0.30	S	19.93	E	19.93	90.86	2.06	1.88
5	MWD	843.00	7.10	93.00	96	841.31	32.11	0.84	S	32.11	E	32.12	91.50	0.43	-0.42
6	MWD	939.00	7.10	91.30	96	936.57	43.96	1.28	S	43.97	E	43.99	91.67	0.22	0.00
7	MWD	1035.00	7.40	90.80	96	1031.80	56.07	1.50	S	56.08	E	56.10	91.54	0.32	0.31
8	MWD	1132.00	6.70	90.10	97	1128.07	67.97	1.60	S	67.99	E	68.00	91.35	0.73	-0.72
9	MWD	1227.00	7.10	80.80	95	1222.39	79.32	0.67	S	79.32	E	79.33	90.49	1.25	0.42
10	MWD	1323.00	5.10	87.40	96	1317.84	89.44	0.47	N	89.44	E	89.44	89.70	2.20	-2.08
11	MWD	1419.00	2.20	97.40	96	1413.63	95.54	0.43	N	95.53	E	95.54	89.74	3.08	-3.02
12	MWD	1516.00	0.80	41.50	97	1510.60	97.83	0.69	N	97.83	E	97.83	89.59	1.93	-1.44
13	MWD	1612.00	0.50	30.90	96	1606.60	98.50	1.55	N	98.49	E	98.50	89.10	0.34	-0.31
14	MWD	1804.00	0.20	90.20	192	1798.59	99.27	2.27	N	99.25	E	99.28	88.69	0.23	-0.16
15	MWD	1996.00	0.40	148.20	192	1990.59	99.95	1.70	N	99.94	E	99.96	89.02	0.18	0.10
16	MWD	2188.00	0.30	135.60	192	2182.59	100.65	0.77	N	100.65	E	100.65	89.56	0.07	-0.05
17	MWD	2379.00	0.60	97.90	191	2373.58	101.99	0.28	N	101.99	E	101.99	89.84	0.21	0.16
18	MWD	2571.00	0.20	295.00	192	2565.58	102.68	0.28	N	102.68	E	102.68	89.84	0.41	-0.21
19	MWD	2762.00	0.70	321.00	191	2756.57	101.65	1.33	N	101.64	E	101.65	89.25	0.28	0.26
20	MWD	2955.00	0.30	288.80	193	2949.56	100.44	2.41	N	100.42	E	100.45	88.63	0.25	-0.21
21	MWD	3146.00	0.60	306.10	191	3140.56	99.16	3.16	N	99.14	E	99.19	88.18	0.17	0.16
22	MWD	3338.00	0.50	273.00	192	3332.55	97.52	3.79	N	97.49	E	97.57	87.77	0.17	-0.05
23	MWD	3531.00	0.50	271.60	193	3525.54	95.84	3.86	N	95.81	E	95.89	87.69	0.01	0.00
24	MWD	3695.00	0.10	179.50	164	3689.54	95.12	3.74	N	95.10	E	95.17	87.75	0.31	-0.24
25	MWD	3887.00	0.40	182.60	192	3881.54	95.09	2.90	N	95.07	E	95.11	88.25	0.16	0.16
26	MWD	4079.00	0.20	102.30	192	4073.54	95.38	2.16	N	95.36	E	95.39	88.70	0.22	-0.10
27	MWD	4272.00	0.40	160.60	193	4266.53	95.93	1.45	N	95.92	E	95.93	89.13	0.18	0.10
28	MWD	4465.00	0.20	148.80	193	4459.53	96.32	0.53	N	96.32	E	96.32	89.68	0.11	-0.10
29	MWD	4657.00	0.60	191.10	192	4651.53	96.29	0.74	S	96.30	E	96.30	90.44	0.25	0.21
30	MWD	4849.00	0.40	174.20	192	4843.52	96.15	2.40	S	96.17	E	96.20	91.43	0.13	-0.10
31	MWD	5058.00	0.70	166.60	209	5052.51	96.51	4.36	S	96.54	E	96.64	92.59	0.15	0.14

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32	PTB	5105.00	0.70	166.60	47	5099.50	96.64	4.92 S	96.67 E	96.80	92.91	0.00	0.00

State of New Mexico
County of Eddy

I, Roy Wakefield, certify that: I am employed by Kambi Texas LP; that I did on the day(s) of 28-May-14 through 03-June-14 conduct or supervise the taking of a MWD Survey from a depth of 465.0 feet to a depth of 5058.0 feet and that the data is true, correct, complete and within the limitations of the tool as set forth by Kambi Texas LP; that I am authorized and qualified to make this report; that this survey was conducted at the request of Lime Rock Resources. for the State of New Mexico; Well Williams A Federal # 13 in Eddy County; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Kambi Texas LP.

Regards,

Roy Wakefield
VP Operations, USA
Kambi Texas LP