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RKI Exploration & Production

Eddy County (NM83E)

Sec 6-T23S-R29E

Longview Fed 31-1H

Wellbore #1

Survey: Survey #1

Standard Survey Report

17 August, 2014

Wolverine Directinal, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well Longview Fed 31-1H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 6-T23S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	Longview Fed 31-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Project:	Eddy County (NM83E)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Survey Program	Date 08/17/14		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
469.0	12,627.0	Survey #1 (Wellbore #1)	MWD
			Description
			MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Longview 3131									
0.3	0.00	171.40	0.3	0.0	0.0	0.0	0.00	0.00	0.00
Longview 6-11									
469.0	0.60	171.40	469.0	-2.4	0.4	-2.5	0.13	0.13	0.00
First MWD Survey									
745.0	1.00	212.70	745.0	-5.9	-0.7	-5.6	0.25	0.14	14.96
959.0	1.90	211.90	958.9	-10.5	-3.6	-9.6	0.42	0.42	-0.37
1,205.0	1.80	211.90	1,204.8	-17.2	-7.8	-15.5	0.04	-0.04	0.00
1,358.0	1.60	208.00	1,357.7	-21.1	-10.1	-18.9	0.15	-0.13	-2.55
1,389.0	1.70	218.40	1,388.7	-21.9	-10.6	-19.5	1.02	0.32	33.55
1,420.0	1.60	231.00	1,419.7	-22.5	-11.2	-20.1	1.21	-0.32	40.65
1,451.0	1.80	219.90	1,450.7	-23.2	-11.8	-20.6	1.24	0.65	-35.81
1,481.0	1.90	231.40	1,480.6	-23.8	-12.5	-21.1	1.28	0.33	38.33
1,511.0	2.20	240.70	1,510.6	-24.4	-13.4	-21.5	1.49	1.00	31.00
1,542.0	2.30	246.70	1,541.6	-25.0	-14.5	-21.8	0.83	0.32	19.35
1,573.0	2.60	255.50	1,572.6	-25.4	-15.8	-22.0	1.55	0.97	28.39
1,603.0	3.20	263.90	1,602.5	-25.6	-17.2	-22.0	2.45	2.00	28.00
1,634.0	3.80	270.00	1,633.5	-25.7	-19.1	-21.7	2.28	1.94	19.68
1,665.0	4.40	272.20	1,664.4	-25.7	-21.3	-21.3	2.00	1.94	7.10
1,695.0	5.20	271.10	1,694.3	-25.6	-23.9	-20.8	2.68	2.67	-3.67
1,726.0	6.00	273.60	1,725.1	-25.5	-26.9	-20.1	2.70	2.58	8.06
1,757.0	6.90	276.90	1,755.9	-25.2	-30.3	-19.1	3.14	2.90	10.65
1,787.0	7.70	276.40	1,785.7	-24.7	-34.1	-18.0	2.68	2.67	-1.67
1,818.0	8.40	275.30	1,816.4	-24.3	-38.4	-16.7	2.31	2.26	-3.55
1,849.0	9.10	274.80	1,847.0	-23.9	-43.1	-15.5	2.27	2.26	-1.61
1,880.0	9.40	274.30	1,877.6	-23.5	-48.1	-14.2	1.00	0.97	-1.61
1,911.0	10.10	272.20	1,908.2	-23.2	-53.4	-12.9	2.53	2.26	-6.77
1,943.0	10.50	271.80	1,939.7	-23.0	-59.1	-11.6	1.27	1.25	-1.25
1,975.0	10.40	269.90	1,971.1	-22.9	-64.9	-10.5	1.12	-0.31	-5.94
2,006.0	10.60	267.80	2,001.6	-23.0	-70.5	-9.6	1.39	0.65	-6.77
2,038.0	10.30	265.10	2,033.1	-23.4	-76.3	-8.8	1.79	-0.94	-8.44
2,069.0	10.20	263.40	2,063.6	-23.9	-81.8	-8.4	1.03	-0.32	-5.48
2,101.0	10.50	263.20	2,095.1	-24.6	-87.5	-8.0	0.94	0.94	-0.63
2,133.0	10.90	262.70	2,126.5	-25.3	-93.4	-7.6	1.28	1.25	-1.56
2,164.0	11.40	262.30	2,156.9	-26.1	-99.4	-7.3	1.63	1.61	-1.29
2,196.0	11.30	263.70	2,188.3	-26.9	-105.6	-6.9	0.92	-0.31	4.38
2,228.0	11.20	264.60	2,219.7	-27.5	-111.8	-6.3	0.63	-0.31	2.81
2,259.0	11.30	266.00	2,250.1	-28.0	-117.8	-5.7	0.94	0.32	4.52
2,291.0	11.80	267.90	2,281.4	-28.3	-124.2	-4.8	1.96	1.56	5.94
2,322.0	12.00	267.40	2,311.8	-28.6	-130.6	-3.9	0.73	0.65	-1.61

Wolverine Directinal, LLC

Survey Report

Company:	RKI Exploration & Production	Local Co-ordinate Reference:	Well: Longview Fed 31-1H
Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 6-T23S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	Longview Fed 31-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,354.0	11.90	268.10	2,343.1	-28.9	-137.2	-3.0	0.55	-0.31	2.19
2,449.0	12.30	266.90	2,436.0	-29.7	-157.1	-0.1	0.50	0.42	-1.26
2,544.0	11.70	267.90	2,528.9	-30.6	-176.9	2.6	0.67	-0.63	1.05
2,670.0	11.80	264.90	2,652.3	-32.2	-202.5	5.8	0.49	0.08	-2.38
2,733.0	11.10	267.90	2,714.0	-33.0	-214.9	7.3	1.46	-1.11	4.76
2,828.0	10.60	267.80	2,807.3	-33.7	-232.8	10.0	0.53	-0.53	-0.11
2,923.0	10.40	267.40	2,900.7	-34.4	-250.1	12.5	0.22	-0.21	-0.42
3,018.0	11.10	268.50	2,994.1	-35.1	-267.8	15.1	0.77	0.74	1.16
3,113.0	12.00	266.90	3,087.1	-35.8	-286.8	17.9	1.01	0.95	-1.68
3,208.0	12.40	266.50	3,180.0	-37.0	-306.9	20.5	0.43	0.42	-0.42
3,303.0	12.60	265.70	3,272.7	-38.4	-327.4	22.9	0.28	0.21	-0.84
3,397.0	12.50	264.60	3,364.5	-40.1	-347.7	25.0	0.28	-0.11	-1.17
3,492.0	12.80	264.90	3,457.2	-42.0	-368.4	26.9	0.32	0.32	0.32
3,587.0	12.00	262.80	3,550.0	-44.2	-388.7	28.5	0.97	-0.84	-2.21
3,682.0	11.20	267.60	3,643.0	-45.8	-407.7	30.5	1.32	-0.84	5.05
3,777.0	11.30	265.50	3,736.2	-46.9	-426.2	32.8	0.44	0.11	-2.21
3,872.0	11.40	267.20	3,829.3	-48.1	-444.9	35.1	0.37	0.11	1.79
3,967.0	11.90	267.20	3,922.4	-49.1	-464.1	37.7	0.53	0.53	0.00
3,998.0	12.10	267.10	3,952.7	-49.4	-470.5	38.6	0.65	0.65	-0.32
4,094.0	12.60	266.50	4,046.5	-50.5	-491.0	41.2	0.54	0.52	-0.63
4,189.0	11.10	270.20	4,139.5	-51.1	-510.5	44.3	1.77	-1.58	3.89
4,284.0	11.20	270.60	4,232.7	-51.0	-528.9	47.8	0.13	0.11	0.42
4,378.0	11.10	271.80	4,324.9	-50.6	-547.0	51.5	0.27	-0.11	1.28
4,473.0	9.80	267.90	4,418.3	-50.6	-564.2	54.7	1.56	-1.37	-4.11
4,568.0	9.80	267.60	4,511.9	-51.3	-580.4	57.1	0.05	0.00	-0.32
4,663.0	10.00	268.80	4,605.5	-51.8	-596.7	59.6	0.30	0.21	1.26
4,758.0	10.40	269.00	4,699.0	-52.1	-613.5	62.4	0.42	0.42	0.21
4,853.0	9.80	263.90	4,792.5	-53.1	-630.2	64.5	1.13	-0.63	-5.37
4,947.0	10.00	263.00	4,885.1	-55.0	-646.2	65.6	0.27	0.21	-0.96
5,042.0	9.60	264.20	4,978.8	-56.8	-662.3	66.8	0.47	-0.42	1.26
5,136.0	9.20	263.00	5,071.5	-58.5	-677.5	68.0	0.47	-0.43	-1.28
5,230.0	10.30	263.40	5,164.1	-60.3	-693.3	69.1	1.17	1.17	0.43
5,324.0	9.90	265.50	5,256.7	-61.9	-709.8	70.5	0.58	-0.43	2.23
5,418.0	10.20	266.70	5,349.2	-63.1	-726.1	72.5	0.39	0.32	1.28
5,513.0	10.60	267.60	5,442.7	-63.9	-743.2	74.8	0.45	0.42	0.95
5,608.0	10.30	268.30	5,536.1	-64.5	-760.5	77.4	0.34	-0.32	0.74
5,702.0	8.90	263.90	5,628.8	-65.6	-776.1	79.3	1.68	-1.49	-4.68
5,797.0	8.60	264.10	5,722.7	-67.1	-790.5	80.4	0.32	-0.32	0.21
5,892.0	9.30	266.20	5,816.5	-68.3	-805.2	81.9	0.81	0.74	2.21
5,986.0	9.10	266.20	5,909.3	-69.3	-820.2	83.7	0.21	-0.21	0.00
6,081.0	9.70	266.00	6,003.0	-70.4	-835.7	85.6	0.63	0.63	-0.21
6,176.0	9.70	264.90	6,096.7	-71.6	-851.6	87.3	0.20	0.00	-1.16
6,271.0	9.30	264.60	6,190.4	-73.1	-867.2	88.8	0.42	-0.42	-0.32
6,366.0	8.90	264.80	6,284.2	-74.4	-882.2	90.2	0.42	-0.42	0.21
6,461.0	7.70	265.70	6,378.2	-75.6	-895.9	91.6	1.27	-1.26	0.95
6,556.0	5.80	263.90	6,472.5	-76.6	-907.0	92.7	2.01	-2.00	-1.89
6,651.0	3.70	276.60	6,567.2	-76.7	-914.8	93.9	2.46	-2.21	13.37
6,746.0	2.20	288.00	6,662.1	-75.8	-919.6	95.7	1.69	-1.58	12.00
6,841.0	1.00	274.30	6,757.0	-75.2	-922.1	96.8	1.32	-1.26	-14.42
6,936.0	1.20	256.20	6,852.0	-75.4	-923.9	97.0	0.42	0.21	-19.05
6,999.0	1.00	259.10	6,915.0	-75.6	-925.1	96.9	0.33	-0.32	4.60
7,027.0	1.00	274.10	6,943.0	-75.7	-925.6	97.0	0.93	0.00	53.57
7,059.0	2.50	349.50	6,975.0	-75.0	-926.0	97.8	7.65	4.69	235.63
7,065.8	3.27	354.37	6,981.8	-74.6	-926.1	98.1	11.91	11.36	71.68

Wolverine Directinal, LLC

Survey Report

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Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
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Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

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LF 31-1H TGT #1									
7,090.0	6.10	1.50	7,005.9	-72.6	-926.1	100.1	11.91	11.68	29.45
7,122.0	9.60	2.50	7,037.6	-68.3	-925.9	104.3	10.95	10.94	3.13
7,154.0	12.70	1.60	7,069.0	-62.1	-925.7	110.4	9.70	9.69	-2.81
7,185.0	15.40	1.80	7,099.0	-54.6	-925.5	117.7	8.71	8.71	0.65
7,217.0	17.50	4.80	7,129.7	-45.5	-925.0	126.5	7.08	6.56	9.38
7,249.0	19.50	6.70	7,160.1	-35.4	-923.9	136.2	6.53	6.25	5.94
7,280.0	21.50	7.10	7,189.1	-24.6	-922.6	146.6	6.47	6.45	1.29
7,312.0	24.00	6.00	7,218.6	-12.4	-921.2	158.4	7.92	7.81	-3.44
7,343.0	27.30	4.30	7,246.6	1.0	-920.0	171.3	10.91	10.65	-5.48
7,374.0	31.00	3.60	7,273.6	16.1	-919.0	185.9	11.99	11.94	-2.26
7,406.0	34.90	3.00	7,300.5	33.4	-918.0	202.8	12.23	12.19	-1.88
7,437.0	37.40	3.40	7,325.5	51.7	-917.0	220.6	8.10	8.06	1.29
7,469.0	40.40	3.70	7,350.4	71.8	-915.7	240.0	9.39	9.38	0.94
7,500.0	44.30	3.90	7,373.3	92.6	-914.3	260.3	12.59	12.58	0.65
7,531.0	45.70	4.30	7,395.2	114.4	-912.8	281.5	4.61	4.52	1.29
7,563.0	45.80	4.30	7,417.6	137.3	-911.0	303.6	0.31	0.31	0.00
7,594.0	45.50	4.30	7,439.2	159.4	-909.4	325.0	0.97	-0.97	0.00
7,626.0	47.70	4.80	7,461.2	182.6	-907.5	347.4	6.97	6.88	1.56
7,657.0	51.40	5.00	7,481.3	206.1	-905.5	370.2	11.95	11.94	0.65
7,689.0	54.60	5.00	7,500.6	231.5	-903.3	394.8	10.00	10.00	0.00
7,720.0	57.90	4.40	7,517.8	257.2	-901.2	419.6	10.77	10.65	-1.94
7,751.0	61.60	4.40	7,533.4	283.9	-899.1	445.5	11.94	11.94	0.00
7,783.0	64.40	4.10	7,547.9	312.4	-897.0	473.0	8.79	8.75	-0.94
7,814.0	67.00	4.30	7,560.7	340.5	-895.0	500.3	8.41	8.39	0.65
7,845.0	69.60	4.40	7,572.2	369.2	-892.8	528.1	8.39	8.39	0.32
7,877.0	71.60	4.40	7,582.8	399.3	-890.5	557.3	6.25	6.25	0.00
7,909.0	73.20	4.60	7,592.5	429.7	-888.1	586.7	5.04	5.00	0.63
7,940.0	75.60	3.90	7,600.8	459.5	-885.8	615.6	8.04	7.74	-2.26
7,971.0	78.10	3.40	7,607.9	489.6	-883.9	644.8	8.22	8.06	-1.61
8,004.0	79.70	3.60	7,614.2	522.0	-882.0	676.2	4.88	4.85	0.61
8,035.0	82.70	3.20	7,618.9	552.5	-880.1	705.9	9.76	9.68	-1.29
8,067.0	86.30	2.70	7,622.0	584.3	-878.5	736.9	11.36	11.25	-1.56
8,099.0	89.30	1.60	7,623.2	616.3	-877.3	768.1	9.98	9.38	-3.44
8,130.0	90.20	1.50	7,623.4	647.3	-876.5	798.4	2.92	2.90	-0.32
8,161.0	90.60	1.60	7,623.2	678.3	-875.6	828.7	1.33	1.29	0.32
8,193.0	90.90	1.60	7,622.7	710.3	-874.7	859.9	0.94	0.94	0.00
8,287.0	90.10	0.60	7,621.9	804.2	-872.9	951.9	1.36	-0.85	-1.06
8,382.0	88.70	359.30	7,622.9	899.2	-873.0	1,045.3	2.01	-1.47	-1.37
8,476.0	91.50	358.60	7,622.8	993.2	-874.7	1,138.0	3.07	2.98	-0.74
8,571.0	91.40	358.50	7,620.3	1,088.1	-877.1	1,231.7	0.15	-0.11	-0.11
8,666.0	89.10	357.60	7,619.9	1,183.1	-880.4	1,325.6	2.60	-2.42	-0.95
8,761.0	90.00	357.90	7,620.7	1,278.0	-884.1	1,419.6	1.00	0.95	0.32
8,857.0	90.60	357.60	7,620.2	1,373.9	-887.9	1,514.5	0.70	0.63	-0.31
8,952.0	91.50	356.90	7,618.4	1,468.8	-892.4	1,608.6	1.20	0.95	-0.74
9,074.0	91.80	356.50	7,614.9	1,590.5	-899.4	1,729.6	0.41	0.25	-0.33
9,170.0	91.50	355.80	7,612.2	1,686.3	-905.9	1,824.8	0.79	-0.31	-0.73
9,264.0	92.00	356.40	7,609.3	1,780.0	-912.3	1,918.1	0.83	0.53	0.64
9,360.0	91.00	357.80	7,606.8	1,875.9	-917.1	2,013.2	1.79	-1.04	1.46
9,454.0	90.60	357.60	7,605.5	1,969.8	-920.9	2,106.2	0.48	-0.43	-0.21
9,548.0	90.70	357.10	7,604.4	2,063.7	-925.2	2,199.3	0.54	0.11	-0.53
9,641.0	90.70	358.10	7,603.3	2,156.6	-929.1	2,291.3	1.08	0.00	1.08
9,735.0	90.50	359.90	7,602.3	2,250.6	-930.8	2,384.0	1.93	-0.21	1.91
9,829.0	91.00	359.70	7,601.0	2,344.6	-931.1	2,476.4	0.57	0.53	-0.21

Wolverine Directinal, LLC

Survey Report

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Project:	Eddy County (NM83E)	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 6-T23S-R29E	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Well:	Longview Fed 31-1H	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 2003.21 Single User Db

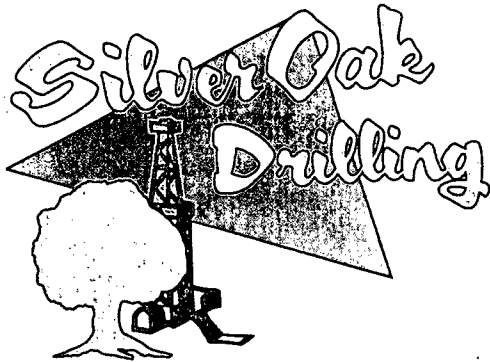
Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,923.0	91.70	359.30	7,598.8	2,438.5	-931.9	2,568.9	0.86	0.74	-0.43
10,018.0	92.80	359.00	7,595.1	2,533.4	-933.3	2,662.4	1.20	1.16	-0.32
10,113.0	91.50	359.50	7,591.5	2,628.4	-934.6	2,755.9	1.47	-1.37	0.53
10,208.0	92.40	359.20	7,588.3	2,723.3	-935.7	2,849.4	1.00	0.95	-0.32
10,303.0	90.70	358.80	7,585.7	2,818.2	-937.3	2,943.1	1.84	-1.79	-0.42
10,397.0	90.70	359.90	7,584.6	2,912.2	-938.4	3,035.6	1.17	0.00	1.17
10,491.0	91.50	359.90	7,582.8	3,006.2	-938.5	3,128.0	0.85	0.85	0.00
10,587.0	90.20	359.90	7,581.4	3,102.2	-938.7	3,222.4	1.35	-1.35	0.00
10,682.0	91.10	359.70	7,580.3	3,197.2	-939.0	3,315.8	0.97	0.95	-0.21
10,778.0	92.20	359.50	7,577.5	3,293.1	-939.7	3,410.2	1.16	1.15	-0.21
10,873.0	90.50	359.50	7,575.3	3,388.1	-940.5	3,503.7	1.79	-1.79	0.00
10,968.0	91.50	359.50	7,573.6	3,483.1	-941.4	3,597.2	1.05	1.05	0.00
11,063.0	89.60	359.90	7,572.7	3,578.1	-941.9	3,690.6	2.04	-2.00	0.42
11,158.0	90.40	359.50	7,572.7	3,673.1	-942.4	3,784.0	0.94	0.84	-0.42
11,253.0	91.20	359.20	7,571.4	3,768.1	-943.4	3,877.6	0.90	0.84	-0.32
11,348.0	90.00	359.50	7,570.4	3,863.1	-944.5	3,971.1	1.30	-1.26	0.32
11,443.0	91.20	359.00	7,569.4	3,958.0	-945.8	4,064.7	1.37	1.26	-0.53
11,537.0	89.90	0.20	7,568.5	4,052.0	-946.4	4,157.2	1.88	-1.38	1.28
11,632.0	91.30	0.20	7,567.5	4,147.0	-946.1	4,250.5	1.47	1.47	0.00
11,727.0	89.70	359.30	7,566.7	4,242.0	-946.5	4,343.9	1.93	-1.68	-0.95
11,821.0	90.00	359.00	7,566.9	4,336.0	-947.9	4,436.5	0.45	0.32	-0.32
11,916.0	88.70	358.50	7,568.0	4,431.0	-950.0	4,530.2	1.47	-1.37	-0.53
12,010.0	87.80	357.20	7,570.9	4,524.9	-953.5	4,623.2	1.68	-0.96	-1.38
12,105.0	89.40	358.60	7,573.2	4,619.8	-957.0	4,717.1	2.24	1.68	1.47
12,200.0	90.90	359.70	7,572.9	4,714.7	-958.4	4,810.7	1.96	1.58	1.16
12,295.0	89.00	358.60	7,573.0	4,809.7	-959.8	4,904.3	2.31	-2.00	-1.16
12,391.0	92.30	0.80	7,571.9	4,905.7	-960.3	4,998.7	4.13	3.44	2.29
12,486.0	91.60	0.90	7,568.7	5,000.6	-958.9	5,091.7	0.74	-0.74	0.11
12,580.0	92.50	0.80	7,565.3	5,094.6	-957.5	5,183.8	0.96	0.96	-0.11
Last MWD Survey									
12,627.0	92.50	0.80	7,563.3	5,141.5	-956.8	5,229.8	0.00	0.00	0.00
Proj to TD - LF 31-1H PBHL									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
469.0	469.0	-2.4	0.4	First MWD Survey
12,580.0	7,565.3	5,094.6	-957.5	Last MWD Survey
12,627.0	7,563.3	5,141.5	-956.8	Proj to TD

Checked By: _____ Approved By: _____ Date: _____



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

August 20, 2014

RKI Exploration
210 Park Ave.
Suite 900
Oklahoma City, OK 73102

RE: Longview Federal 31-1H
140' FNL & 1390' FWL
Sec. 6, T23S, R29E
Eddy County, New Mexico

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 24 2014

RECEIVED

Dear Sir,

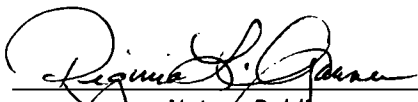
The attached is the Deviation Survey for the above captioned well.

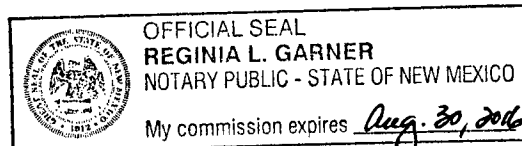
Very truly yours,


Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 20th day of August, 2014.


Regina L. Garner
Notary Public



LONGVIEW FED 31-1H

Date	Depth	Deviation	Direction	TVD	Horiz
7/22/2014	82	0.50	0.00	0.00	0.00
7/22/2014	200	0.60	0.00	0.00	0.00
7/25/2014	469	0.60	171.40	0.00	0.00
7/25/2014	714	1.00	212.70	0.00	0.00
7/25/2014	959	1.90	211.90	0.00	0.00
7/25/2014	1205	1.80	211.90	0.00	0.00
7/26/2014	1358	1.60	208.00	0.00	0.00
7/26/2014	1389	1.70	218.40	0.00	0.00
7/27/2014	1603	3.20	263.90	1572.00	0.00
7/27/2014	1634	3.80	270.00	1633.00	0.00
7/27/2014	1665	0.00	0.00	0.00	0.00
7/27/2014	1757	6.90	276.9*	0.00	0.00
7/27/2014	1849	9.10	274.80	1847.00	0.00
7/27/2014	1975	10.40	269.90	1971.00	0.00
7/27/2014	2133	10.90	262.70	2126.00	0.00
7/28/2014	2164	11.40	262.30	2156.00	0.00
7/28/2014	2259	11.30	266.00	2250.00	0.00
7/28/2014	2354	11.90	268.10	2343.00	0.00
7/28/2014	2445	12.30	266.90	2436.00	0.00
7/28/2014	2544	11.70	267.90	0.00	0.00
7/28/2014	2733	11.10	267.90	2714.00	0.00
7/29/2014	2828	10.60	267.80	2807.00	0.00
7/29/2014	2923	10.40	267.40	2900.00	0.00
7/29/2014	3018	11.10	268.50	0.00	0.00
7/29/2014	3113	12.00	266.90	3087.00	0.00
7/29/2014	3397	12.50	264.50	3364.00	0.00
7/29/2014	3587	12.00	262.80	3549.00	0.00
7/29/2014	3682	11.20	267.60	3643.00	0.00
7/29/2014	3777	11.30	265.54	0.00	0.00
7/29/2014	3872	11.40	267.20	3829.00	0.00
7/30/2014	3967	11.90	267.20	3922.00	0.00
7/30/2014	3998	12.10	267.10	3952.00	0.00
8/1/2014	4284	11.20	270.60	4232.00	0.00
8/1/2014	4568	9.80	267.60	4511.00	0.00
8/1/2014	4758	10.40	269.00	4699.00	0.00
8/1/2014	4947	10.00	263.00	4885.00	0.00
8/2/2014	5136	9.20	263.00	5071.00	0.00
8/2/2014	5230	10.30	263.40	5164.00	0.00
8/2/2014	5324	9.90	265.50	5256.00	0.00
8/2/2014	5797	8.60	264.10	5722.00	0.00
8/2/2014	5986	9.10	266.20	5909.00	0.00
8/2/2014	6271	9.30	264.00	6190.00	0.00
8/2/2014	6461	7.70	265.70	6378.00	0.00

Date	Depth	Deviation	Direction	TVD	Horiz
8/3/2014	6556	5.80	2639.00	6472.00	0.00
8/3/2014	6651	3.70	276.60	6567.00	0.00
8/3/2014	6746	2.20	288.00	6662.00	0.00
8/3/2014	6841	1.00	274.30	6757.00	0.00
8/3/2014	6999	1.00	259.10	6914.99	0.00
8/4/2014	7059	2.50	349.50	6975.00	0.00
8/5/2014	7154	12.70	1.60	7069.00	0.00
8/5/2014	7312	24.00	6.00	7218.00	0.00
8/5/2014	7406	34.90	3.00	7300.00	0.00
8/5/2014	7531	45.70	4.30	7395.00	0.00
8/6/2014	7689	54.60	5.00	7500.00	0.00
8/6/2014	7814	67.00	4.30	7560.00	0.00
8/6/2014	7909	73.20	4.60	7592.00	0.00
8/6/2014	8004	79.70	3.60	7614.00	0.00
8/7/2014	8193	90.90	1.60	7622.00	0.00
8/7/2014	8287	90.10	0.60	7621.00	0.00
8/7/2014	8382	88.70	359.30	7622.00	0.00
8/7/2014	8476	91.50	358.60	7622.00	0.00
8/8/2014	8571	91.40	358.40	7620.00	0.00
8/8/2014	8666	89.10	357.60	7620.00	0.00
8/8/2014	8761	90.00	357.90	7620.00	0.00
8/8/2014	8857	90.60	357.60	7620.00	0.00
8/8/2014	8952	91.50	356.90	7618.00	0.00
8/10/2014	9170	91.50	355.80	7612.00	0.00
8/10/2014	9360	91.00	357.80	7606.00	0.00
8/10/2014	9364	92.00	356.40	7609.00	0.00
8/10/2014	9454	90.60	357.60	7605.00	0.00
8/11/2014	9641	90.70	358.10	7603.00	0.00
8/11/2014	9735	90.50	359.90	7602.00	0.00
8/12/2014	9923	91.70	359.30	7598.00	0.00
8/12/2014	10018	92.80	359.00	7595.00	0.00
8/12/2014	10113	91.50	359.50	7591.00	0.00
8/12/2014	10303	90.70	358.80	7585.00	0.00
8/12/2014	10397	90.70	359.90	7584.00	0.00
8/12/2014	10491	91.50	359.90	7582.00	0.00
8/12/2014	10587	90.20	359.90	7581.00	0.00
8/13/2014	10778	92.20	359.50	0.00	0.00
8/13/2014	10873	90.50	359.50	7575.00	0.00
8/13/2014	10968	91.50	359.50	7573.00	0.00
8/13/2014	11158	90.40	359.50	7572.00	0.00
8/13/2014	11348	90.00	359.50	7570.00	0.00
8/13/2014	11443	91.20	359.00	7569.00	0.00
8/13/2014	11632	91.30	0.20	7567.00	0.00
8/14/2014	11727	89.70	359.30	7566.00	0.00
8/14/2014	11916	88.70	358.50	7567.00	0.00

Date	Depth	Deviation	Direction	TVD	Horiz
8/14/2014	12010	87.80	357.20	7570.00	0.00
8/14/2014	12105	89.40	358.60	7573.00	0.00
8/14/2014	12200	90.90	359.70	7573.00	0.00
8/15/2014	12295	89.00	358.60	7573.00	0.00
8/16/2014	12391	92.30	0.80	7572.00	0.00
8/16/2014	12486	91.60	0.90	7586.00	0.00
8/16/2014	12580	92.50	0.80	7567.00	0.00

EOF