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**NM OIL CONSERVATION
ARTESIA DISTRICT**

WPX Energy
Frontier 32-23-26 State 431H - Actual

FEB 19 2019

RECEIVED

Eddy County, New Mexico (NAD 83)
Frontier 32-23-26 State Pad
Your Ref:

30-015-45274

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Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Grid X	Grid Y	SSTVD
0	0	0	0	0	0	0	0	549203.3	456164.7	-3463
204	0.05	207.53	204	-0.08	-0.04	0.04	0.02	549203.3	456164.6	-3259
267	0.21	202.06	267	-0.21	-0.1	0.1	0.25	549203.2	456164.5	-3196
350	0.21	220.96	350	-0.47	-0.25	0.26	0.08	549203.1	456164.2	-3113
512	0.65	254.12	511.99	-0.94	-1.33	1.34	0.3	549202	456163.8	-2951.01
605	0.72	253.99	604.99	-1.25	-2.4	2.41	0.08	549200.9	456163.5	-2858.01
697	0.92	251.85	696.98	-1.64	-3.66	3.67	0.22	549199.6	456163.1	-2766.02
790	0.86	253.67	789.97	-2.07	-5.04	5.05	0.07	549198.3	456162.6	-2673.03
882	1.16	243.66	881.95	-2.67	-6.54	6.55	0.38	549196.8	456162	-2581.05
975	1.41	245.99	974.93	-3.56	-8.42	8.45	0.27	549194.9	456161.1	-2488.07
1067	0.56	238.97	1066.91	-4.25	-9.84	9.87	0.93	549193.5	456160.5	-2396.09
1160	0.97	66.77	1159.91	-4.17	-9.51	9.54	1.64	549193.8	456160.5	-2303.09
1252	0.39	76.34	1251.9	-3.79	-8.49	8.51	0.64	549194.8	456160.9	-2211.1
1347	0.05	144.66	1346.9	-3.75	-8.15	8.18	0.39	549195.2	456161	-2116.1
1442	0.24	181.14	1441.9	-3.98	-8.13	8.16	0.21	549195.2	456160.7	-2021.1
1536	0.3	250.98	1535.9	-4.26	-8.37	8.4	0.33	549194.9	456160.4	-1927.1
1631	0.23	205.05	1630.9	-4.51	-8.68	8.71	0.23	549194.6	456160.2	-1832.1
1726	0.39	209.82	1725.9	-4.97	-8.93	8.96	0.17	549194.4	456159.7	-1737.1
1745	0.69	243.54	1744.9	-5.07	-9.06	9.09	2.24	549194.2	456159.6	-1718.1
1917	0.69	230.5	1916.89	-6.19	-10.79	10.83	0.09	549192.5	456158.5	-1546.11
2012	0.55	235.43	2011.88	-6.82	-11.6	11.65	0.16	549191.7	456157.9	-1451.12
2106	0.76	243.98	2105.88	-7.34	-12.53	12.58	0.25	549190.8	456157.4	-1357.12
2201	0.97	248.45	2200.86	-7.92	-13.85	13.9	0.23	549189.5	456156.8	-1262.14
2296	0.57	228.61	2295.86	-8.52	-14.95	15.01	0.5	549188.4	456156.2	-1167.14
2391	0.59	203.99	2390.85	-9.28	-15.5	15.57	0.26	549187.8	456155.4	-1072.15
2485	0.67	196.27	2484.85	-10.25	-15.86	15.92	0.12	549187.4	456154.5	-978.15
2580	0.88	193.22	2579.84	-11.5	-16.18	16.25	0.23	549187.1	456153.2	-883.16
2675	0.76	199.68	2674.83	-12.8	-16.56	16.64	0.16	549186.7	456151.9	-788.17
2770	0.79	195.27	2769.82	-14.03	-16.94	17.03	0.07	549186.4	456150.7	-693.18
2864	0.77	198.51	2863.81	-15.25	-17.31	17.41	0.05	549186	456149.5	-599.19
2959	1.81	116.26	2958.79	-16.52	-16.17	16.28	1.97	549187.1	456148.2	-504.21
3054	2.61	105.01	3053.72	-17.74	-12.74	12.85	0.95	549190.6	456147	-409.28
3148	3.58	97.41	3147.58	-18.68	-7.76	7.88	1.12	549195.5	456146	-315.42
3243	4.3	91.14	3242.36	-19.13	-1.26	1.38	0.88	549202	456145.6	-220.64
3338	5.9	79.02	3336.98	-18.27	7.1	-6.98	2.02	549210.4	456146.4	-126.02
3432	6.54	72.58	3430.43	-15.75	16.95	-16.85	1.01	549220.3	456149	-32.57
3527	5.84	71.67	3524.87	-12.61	26.7	-26.62	0.74	549230	456152.1	61.87
3621	5.05	70.67	3618.45	-9.73	35.14	-35.08	0.85	549238.4	456155	155.45

3716	5.43	66.49	3713.05	-6.56	43.21	-43.17	0.57	549246.5	456158.1	250.05
3811	6.51	60.01	3807.54	-2.07	52	-51.98	1.34	549255.3	456162.6	344.54
3905	6.14	60.06	3900.96	3.1	60.97	-60.99	0.39	549264.3	456167.8	437.96
4000	5.64	60.48	3995.46	7.94	69.43	-69.49	0.53	549272.7	456172.6	532.46
4095	6.14	61.77	4089.96	12.64	77.97	-78.05	0.54	549281.3	456177.3	626.96
4190	7.48	61.24	4184.29	18.02	87.87	-87.99	1.41	549291.2	456182.7	721.29
4284	6.87	58.97	4277.55	23.86	98.05	-98.21	0.72	549301.4	456188.6	814.55
4378	5.91	58.48	4370.97	29.29	106.99	-107.19	1.02	549310.3	456194	907.97
4473	5.23	58.02	4465.52	34.14	114.84	-115.06	0.72	549318.1	456198.8	1002.52
4568	5.53	67.74	4560.1	38.17	122.75	-123	1.01	549326.1	456202.9	1097.1
4662	6.4	70.01	4653.59	41.67	131.86	-132.13	0.96	549335.2	456206.4	1190.59
4757	5.67	69.16	4748.06	45.15	141.22	-141.52	0.77	549344.5	456209.9	1285.06
4852	5.27	71.71	4842.63	48.19	149.75	-150.07	0.49	549353.1	456212.9	1379.63
4946	5.56	76.31	4936.21	50.62	158.27	-158.61	0.56	549361.6	456215.3	1473.21
5041	6.7	82.52	5030.67	52.43	168.24	-168.58	1.39	549371.5	456217.1	1567.67
5136	5.71	80.97	5125.11	53.9	178.4	-178.76	1.06	549381.7	456218.6	1662.11
5230	5.7	82.61	5218.64	55.23	187.65	-188.01	0.17	549391	456219.9	1755.64
5325	5.38	82.49	5313.2	56.42	196.74	-197.11	0.34	549400	456221.1	1850.2
5419	4.47	82.7	5406.85	57.46	204.75	-205.12	0.97	549408.1	456222.2	1943.85
5514	4.37	73.13	5501.57	58.98	211.88	-212.27	0.78	549415.2	456223.7	2038.57
5608	4.6	64.72	5595.28	61.63	218.72	-219.12	0.74	549422	456226.3	2132.28
5703	5.89	66.39	5689.89	65.21	226.63	-227.06	1.37	549429.9	456229.9	2226.89
5797	5.22	63.74	5783.44	69.04	234.88	-235.34	0.76	549438.2	456233.7	2320.44
5892	3.47	70.86	5878.17	71.89	241.48	-241.95	1.92	549444.8	456236.6	2415.17
5986	2.33	86.22	5972.05	72.95	246.07	-246.55	1.46	549449.4	456237.7	2509.05
6081	3.2	81.26	6066.94	73.48	250.62	-251.1	0.95	549453.9	456238.2	2603.94
6175	4.64	76.87	6160.71	74.74	256.91	-257.4	1.56	549460.2	456239.4	2697.71
6270	4.42	75.64	6255.42	76.52	264.2	-264.7	0.25	549467.5	456241.2	2792.42
6365	3.24	76.96	6350.2	78.04	270.36	-270.88	1.25	549473.7	456242.7	2887.2
6459	2.64	72.2	6444.08	79.3	275.01	-275.53	0.69	549478.3	456244	2981.08
6554	1.74	68.22	6539.01	80.5	278.44	-278.96	0.96	549481.7	456245.2	3076.01
6649	1.46	60.73	6633.97	81.63	280.83	-281.37	0.37	549484.1	456246.3	3170.97
6728	1.35	52.45	6712.95	82.69	282.45	-282.99	0.29	549485.8	456247.4	3249.95
6838	0.98	68.62	6822.92	83.82	284.35	-284.9	0.45	549487.7	456248.5	3359.92
6933	0.67	76.4	6917.91	84.25	285.65	-286.2	0.35	549489	456249	3454.91
7028	0.26	47.67	7012.91	84.52	286.35	-286.9	0.48	549489.7	456249.2	3549.91
7122	0.37	26.1	7106.91	84.94	286.64	-287.19	0.17	549489.9	456249.6	3643.91
7217	0.11	266.33	7201.91	85.21	286.68	-287.24	0.46	549490	456249.9	3738.91
7312	0.6	290.67	7296.91	85.38	286.12	-286.68	0.53	549489.4	456250.1	3833.91
7406	0.17	182.9	7390.91	85.41	285.66	-286.22	0.71	549489	456250.1	3927.91
7501	0.55	127.14	7485.9	85	286.01	-286.57	0.5	549489.3	456249.7	4022.9
7596	1.3	147.32	7580.89	83.81	286.96	-287.51	0.85	549490.3	456248.5	4117.89
7690	2.16	146.48	7674.85	81.44	288.51	-289.05	0.92	549491.8	456246.1	4211.85
7785	3.04	123.59	7769.75	78.55	291.6	-292.11	1.42	549494.9	456243.3	4306.75
7880	1.67	114.87	7864.67	76.58	294.95	-295.46	1.49	549498.3	456241.3	4401.67
7974	0.44	82.89	7958.65	76.05	296.56	-297.05	1.4	549499.9	456240.8	4495.65
8069	0.59	79.72	8053.65	76.18	297.4	-297.9	0.16	549500.7	456240.9	4590.65
8164	1.25	127.47	8148.64	75.64	298.7	-299.2	1.01	549502	456240.3	4685.64
8236	1.41	150.42	8220.62	74.39	299.76	-300.25	0.77	549503.1	456239.1	4757.62
8357	3.03	252.22	8341.55	72.12	297.45	-297.92	2.97	549500.8	456236.8	4878.55
8451	11.89	269.05	8434.67	71.19	285.38	-285.84	9.61	549488.7	456235.9	4971.67
8546	22.43	267.23	8525.32	70.15	257.41	-257.87	11.11	549460.7	456234.9	5062.32
8641	35.33	269.04	8608.33	68.81	211.65	-212.1	13.61	549415	456233.5	5145.33
8736	42.61	273.52	8682.15	70.33	152	-152.46	8.21	549355.3	456235	5219.15
8830	50.71	273.76	8746.61	74.67	83.83	-84.32	8.62	549287.1	456239.4	5283.61

8925	59.93	271.94	8800.61	78.48	5.89	-6.41	9.83	549209.2	456243.2	5337.61
9020	68.21	272.13	8842.12	81.52	-79.42	78.88	8.72	549123.9	456246.2	5379.12
9091	73.2	272.48	8865.57	84.22	-146.36	145.8	7.04	549056.9	456248.9	5402.57
9199	79.67	273.04	8890.89	89.28	-251.17	250.57	6.01	548952.1	456254	5427.89
9221	82.58	272.52	8894.28	90.33	-272.88	272.27	13.43	548930.4	456255	5431.28
9316	89.36	270.87	8900.96	93.13	-367.54	366.91	7.34	548835.8	456257.8	5437.96
9411	90.17	270.69	8901.35	94.42	-462.53	461.89	0.87	548740.8	456259.1	5438.35
9506	90.2	270.3	8901.04	95.24	-557.53	556.88	0.41	548645.8	456259.9	5438.04
9600	89.76	269.05	8901.07	94.71	-651.52	650.88	1.41	548551.8	456259.4	5438.07
9695	90.34	269.2	8900.99	93.26	-746.51	745.88	0.63	548456.8	456258	5437.99
9790	90.54	270.16	8900.26	92.73	-841.51	840.87	1.03	548361.8	456257.4	5437.26
9885	90.17	269.82	8899.67	92.71	-936.5	935.87	0.53	548266.8	456257.4	5436.67
9980	89.26	269.15	8900.14	91.86	-1031.5	1030.86	1.19	548171.8	456256.6	5437.14
10074	88.26	267.87	8902.18	89.41	-1125.44	1124.82	1.73	548077.9	456254.1	5439.18
10169	89.46	268.65	8904.07	86.53	-1220.37	1219.77	1.51	547982.9	456251.2	5441.07
10264	90.44	268.74	8904.15	84.37	-1315.35	1314.76	1.04	547888	456249.1	5441.15
10359	90.1	267.58	8903.7	81.32	-1410.3	1409.73	1.27	547793	456246	5440.7
10454	89.93	268	8903.68	77.65	-1505.23	1504.68	0.48	547698.1	456242.4	5440.68
10548	91.91	269.55	8902.17	75.64	-1599.18	1598.65	2.67	547604.1	456240.3	5439.17
10643	91.34	268.61	8899.47	74.12	-1694.13	1693.6	1.16	547509.2	456238.8	5436.47
10738	90.87	268.36	8897.64	71.61	-1789.08	1788.57	0.56	547414.2	456236.3	5434.64
10833	91.65	269.34	8895.55	69.7	-1884.04	1883.53	1.32	547319.3	456234.4	5432.55
10928	92.45	269.96	8892.16	69.12	-1978.97	1978.47	1.07	547224.3	456233.8	5429.16
11022	92.36	270.25	8888.21	69.29	-2072.89	2072.39	0.32	547130.4	456234	5425.21
11117	92.28	270.53	8884.36	69.94	-2167.81	2167.3	0.31	547035.5	456234.6	5421.36
11212	93.12	274.65	8879.89	74.22	-2262.59	2262.05	4.42	546940.7	456238.9	5416.89
11307	89.26	272.82	8877.92	80.41	-2357.34	2356.76	4.5	546846	456245.1	5414.92
11401	88.56	272.46	8879.7	84.74	-2451.23	2450.61	0.84	546752.1	456249.4	5416.7
11496	88.05	272.83	8882.51	89.12	-2546.08	2545.44	0.66	546657.2	456253.8	5419.51
11591	88.66	271.03	8885.24	92.32	-2640.98	2640.31	2	546562.3	456257	5422.24
11686	90.37	270.19	8886.04	93.33	-2735.97	2735.29	2.01	546467.3	456258	5423.04
11780	89.33	269.32	8886.29	92.93	-2829.97	2829.29	1.44	546373.3	456257.6	5423.29
11875	90.17	269.72	8886.71	92.13	-2924.96	2924.29	0.98	546278.3	456256.8	5423.71
11970	90.37	269.16	8886.26	91.2	-3019.96	3019.29	0.63	546183.3	456255.9	5423.26
12065	89.6	268.77	8886.28	89.49	-3114.94	3114.28	0.91	546088.4	456254.2	5423.28
12160	89.83	267.29	8886.76	86.22	-3209.88	3209.24	1.58	545993.4	456250.9	5423.76
12254	92.72	270.02	8884.66	84.01	-3303.81	3303.18	4.23	545899.5	456248.7	5421.66
12349	92.78	269.38	8880.11	83.52	-3398.7	3398.07	0.68	545804.6	456248.2	5417.11
12444	92.72	269.07	8875.55	82.23	-3493.58	3492.96	0.33	545709.7	456246.9	5412.55
12539	92.68	268.9	8871.07	80.55	-3588.46	3587.85	0.18	545614.8	456245.3	5408.07
12634	92.28	269.5	8866.96	79.23	-3683.36	3682.76	0.76	545519.9	456243.9	5403.96
12728	90.67	268.73	8864.54	77.78	-3777.32	3776.72	1.9	545426	456242.5	5401.54
12823	90.23	268.63	8863.8	75.59	-3872.29	3871.7	0.47	545331	456240.3	5400.8
12918	89.66	268.32	8863.89	73.06	-3967.26	3966.68	0.68	545236	456237.8	5400.89
13013	89.5	268.43	8864.58	70.37	-4062.21	4061.66	0.2	545141.1	456235.1	5401.58
13108	90.24	269.73	8864.8	68.84	-4157.2	4156.65	1.57	545046.1	456233.5	5401.8
13202	90.3	270.69	8864.36	69.19	-4251.2	4250.64	1.02	544952.1	456233.9	5401.36
13297	92.08	272.28	8862.38	71.65	-4346.14	4345.57	2.51	544857.2	456236.4	5399.38
13392	94.1	274.02	8857.26	76.86	-4440.85	4440.24	2.8	544762.5	456241.6	5394.26
13487	93.57	274.04	8850.91	83.52	-4535.4	4534.75	0.56	544667.9	456248.2	5387.91
13608	90.84	272.56	8846.25	90.48	-4656.1	4655.39	2.57	544547.2	456255.2	5383.25
13682	90.84	272.56	8845.17	93.78	-4730.01	4729.29	0	544473.3	456258.5	5382.17

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.

Vertical depths are relative to GL 3437 + RKB 26 =. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 269.620° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.014°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 13682.00ft., the Bottom Hole Displacement is 4730.94ft., in the Direction of 269.620° (Grid).