



State of New Mexico
County of Lea

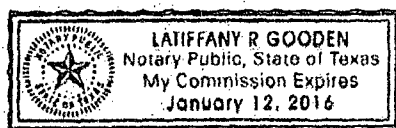
I, Michael K. Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 08/02/2014 through 08/17/2014 conduct or supervise the taking of a MWD survey from a depth of 10320 feet to a depth 15465 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Energen Resources for the Cox 35 Federal #1H Well API 30-025-41520 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.



Michael K. Baber
MWD Operations Manager

State of Texas
County of Montgomery

Before me, a notary public, on this day personally appeared Michael K. Baber, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.





Notary Public's Signature

SEP 08 2014



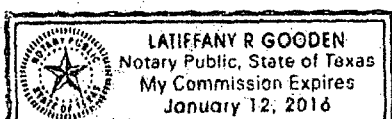
Client Name: Energen Resources
 Well Name: Cox 35 Federal #1H
 API Number: 30-025-4152
 County / Parish: Lea County

M.W.D. Operator: T. Gruelle
 Directional Driller: J. Mueller
 Total Magnetic Correction: 7.03
 Job #: NM-454

Vertical Section: 359.60

Tie In Survey(s) Provided By:

	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	10320.00	2.10	239.12	10317.47	3.07	2.63	-62.97	63.02	272.39	0.00
1	10405.00	1.90	241.60	10402.42	1.62	1.16	-65.55	65.56	271.01	0.26
2	10437.00	1.70	276.20	10434.40	1.42	0.96	-66.48	66.49	270.83	3.40
3	10468.00	3.50	330.60	10465.37	2.30	1.83	-67.41	67.43	271.56	9.24
4	10499.00	6.50	345.70	10496.25	4.84	4.36	-68.30	68.44	273.65	10.49
5	10531.00	9.80	352.00	10527.93	9.29	8.81	-69.13	69.69	277.26	10.67
6	10562.00	13.30	353.20	10558.29	15.46	14.97	-69.92	71.50	282.08	11.32
7	10594.00	17.50	353.20	10589.14	23.90	23.40	-70.93	74.69	288.26	13.13
8	10625.00	22.00	353.50	10618.31	34.31	33.81	-72.14	79.67	295.11	14.52
9	10657.00	26.10	352.40	10647.52	47.26	46.74	-73.75	87.31	302.37	12.89
10	10688.00	29.10	352.40	10674.99	61.51	60.98	-75.65	97.16	308.87	9.68
11	10720.00	32.20	353.10	10702.52	77.70	77.16	-77.70	109.50	314.80	9.75
12	10751.00	36.10	354.20	10728.17	95.01	94.45	-79.62	123.53	319.87	12.74
13	10783.00	40.40	355.30	10753.29	114.74	114.18	-81.42	140.23	324.51	13.60
14	10814.00	44.00	356.70	10776.26	135.52	134.94	-82.86	158.35	328.45	12.00
15	10846.00	46.50	357.40	10798.78	158.22	157.64	-84.03	178.64	331.94	7.97
16	10877.00	49.10	358.90	10819.60	181.18	180.59	-84.76	199.49	334.86	9.12
17	10909.00	52.10	359.50	10839.91	205.90	205.31	-85.11	222.25	337.48	9.49
18	10941.00	54.50	359.50	10859.04	231.55	230.96	-85.33	246.22	339.72	7.50
19	10972.00	56.70	359.50	10876.55	257.13	256.54	-85.55	270.43	341.56	7.10
20	11004.00	60.60	359.60	10893.19	284.45	283.86	-85.77	296.54	343.19	12.19
21	11038.00	65.00	359.50	10908.73	314.69	314.09	-86.01	325.66	344.69	12.94
22	11070.00	67.30	358.90	10921.67	343.95	343.36	-86.42	354.06	345.87	7.39
23	11101.00	68.00	358.70	10933.46	372.62	372.02	-87.02	382.06	346.84	2.34
24	11133.00	68.40	358.50	10945.34	402.33	401.72	-87.74	411.19	347.68	1.38
25	11164.00	68.60	358.80	10956.70	431.17	430.56	-88.42	439.54	348.39	1.11
26	11196.00	69.80	358.50	10968.07	461.08	460.46	-89.13	469.01	349.05	3.85
27	11227.00	70.70	358.70	10978.54	490.25	489.63	-89.84	497.81	349.60	2.97
28	11259.00	72.00	358.40	10988.77	520.56	519.94	-90.61	527.78	350.11	4.16
29	11290.00	73.20	358.30	10998.04	550.13	549.51	-91.46	557.07	350.55	3.88
30	11322.00	75.80	358.80	11006.60	580.96	580.33	-92.24	587.62	350.97	8.26
31	11353.00	80.20	359.20	11013.04	611.28	610.64	-92.77	617.65	351.36	14.25
32	11385.00	85.20	359.90	11017.10	643.01	642.37	-93.01	649.07	351.76	15.77
33	11443.00	88.90	359.00	11020.09	700.92	700.28	-93.57	706.51	352.39	6.56
34	11474.00	89.30	358.10	11020.58	731.91	731.27	-94.36	737.33	352.65	3.18
35	11506.00	90.20	358.20	11020.72	763.90	763.25	-95.39	769.19	352.88	2.83
36	11569.00	91.50	358.30	11019.78	826.87	826.21	-97.31	831.92	353.28	2.07
37	11663.00	91.30	359.90	11017.48	920.84	920.17	-98.79	925.46	353.87	1.71
38	11758.00	92.10	0.40	11014.67	1015.79	1015.13	-98.54	1019.90	354.46	0.99
39	11853.00	92.10	0.20	11011.18	1110.72	1110.06	-98.04	1114.38	354.95	0.21
40	11948.00	92.00	2.20	11007.79	1205.62	1204.98	-96.05	1208.80	355.44	2.11
41	12042.00	89.80	1.50	11006.31	1299.53	1298.91	-93.02	1302.24	355.90	2.46
42	12137.00	91.10	1.80	11005.56	1394.46	1393.86	-90.29	1396.79	356.29	1.40
43	12232.00	89.30	0.70	11005.23	1489.42	1488.84	-88.21	1491.45	356.61	2.22



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44	12327.00	91.70	1.00	11004.40	1504.38	1583.81	-86.00	1586.19	356.86	2.55
45	12421.00	92.40	0.40	11001.04	1678.30	1677.75	-85.66	1679.93	357.08	0.98
46	12516.00	89.80	359.90	10999.22	1773.27	1772.72	-85.41	1774.78	357.24	2.79
47	12611.00	88.70	359.90	11000.46	1868.26	1867.71	-85.57	1869.67	357.38	1.16
48	12706.00	89.60	359.30	11001.87	1963.25	1962.70	-86.24	1964.59	357.48	1.14
49	12800.00	89.70	358.80	11002.44	2057.24	2056.68	-87.80	2058.55	357.56	0.54
50	12895.00	90.10	0.20	11002.61	2152.24	2151.68	-88.62	2153.50	357.64	1.53
51	12990.00	92.10	1.50	11000.79	2247.19	2246.64	-87.22	2248.33	357.78	2.51
52	13084.00	91.10	2.20	10998.16	2341.08	2340.55	-84.18	2342.07	357.94	1.30
53	13179.00	89.60	2.10	10997.58	2435.99	2435.48	-80.62	2436.82	358.10	1.58
54	13269.00	88.70	2.00	10998.92	2525.89	2525.41	-77.40	2526.60	358.24	1.01
55	13363.00	89.80	1.80	11000.15	2619.81	2619.35	-74.28	2620.41	358.38	1.19
56	13458.00	89.30	1.40	11000.89	2714.75	2714.31	-71.63	2715.26	358.49	0.67
57	13552.00	90.30	0.90	11001.22	2808.71	2808.29	-69.74	2809.16	358.58	1.19
58	13647.00	90.40	1.10	11000.64	2903.68	2903.27	-68.09	2904.07	358.66	0.24
59	13741.00	89.50	1.30	11000.72	2997.64	2997.25	-66.12	2997.98	358.74	0.98
60	13835.00	88.70	1.40	11002.20	3091.58	3091.21	-63.90	3091.87	358.82	0.86
61	13930.00	90.70	0.40	11002.70	3186.55	3186.20	-62.41	3186.81	358.88	2.35
62	14024.00	89.50	1.10	11002.53	3280.53	3280.18	-61.18	3280.76	358.93	1.48
63	14118.00	88.70	1.30	11004.01	3374.48	3374.15	-59.21	3374.67	358.99	0.88
64	14213.00	90.00	1.70	11005.09	3469.42	3469.11	-56.73	3469.57	359.06	1.43
65	14307.00	89.80	1.50	11005.25	3563.36	3563.07	-54.10	3563.48	359.13	0.30
66	14402.00	88.20	0.90	11006.91	3658.31	3658.03	-52.11	3658.41	359.18	1.80
67	14496.00	88.70	0.10	11009.45	3752.26	3752.00	-51.29	3752.35	359.22	1.00
68	14590.00	89.00	359.20	11011.34	3846.24	3845.97	-51.87	3846.32	359.23	1.01
69	14685.00	90.00	358.50	11012.17	3941.23	3940.95	-53.77	3941.32	359.22	1.28
70	14780.00	89.20	359.00	11012.83	4036.22	4035.92	-55.85	4036.31	359.21	0.99
71	14874.00	89.30	359.00	11014.06	4130.20	4129.90	-57.49	4130.30	359.20	0.11
72	14968.00	90.10	359.20	11014.55	4224.20	4223.89	-58.96	4224.30	359.20	0.88
73	15063.00	91.50	1.60	11013.23	4319.17	4318.87	-58.30	4319.26	359.23	2.92
74	15157.00	88.80	3.60	11012.98	4413.03	4412.76	-54.04	4413.09	359.30	3.57
75	15252.00	90.00	3.90	11013.97	4507.77	4507.55	-47.82	4507.80	359.39	1.30
76	15346.00	91.50	3.70	11012.74	4601.51	4601.33	-41.59	4601.52	359.48	1.61
77	15416.00	92.10	3.50	11010.55	4671.30	4671.16	-37.20	4671.30	359.54	0.90
PTB	15465.00	92.10	3.50	11008.75	4720.15	4720.03	-34.21	4720.16	359.58	0.00

