

Results of Directional Survey

API number:	30-025-41520		
OGRID:		Operator:	ENERGEN RESOURCES CORPORATION
		Property:	COX 35 FEDERAL # 1H

surface	ULSTR:	P	35	T	23S	R	32E
				200	FSL	400	FEL

BH Loc	ULSTR:	A	35	T	23S	R	32E
15465	MD	11008.8	TVD	360	FNL	434	FEL
4920 FSL							

Top Perf/OH	ULSTR:	P	35	T	23S	R	32E
11379	MD	11016.3	TVD	836	FSL	493	FEL

Bot Perf/OH	ULSTR:	A	35	T	23S	R	32E
15285	MD	11013.5	TVD	539	FNL	446	FEL
4741 FSL							

	MD	N/S	E/W	VD
	11353.00	610.64	-92.77	11013.04
TOP PERFS/OH	11379	636.42	-92.97	11016.34
	11385.00	642.37	-93.01	11017.10
	15252.00	4507.55	-47.82	11013.97
BOT PERFS/OH	15285	4540.55	-45.63	11013.54
	15346.00	4601.55	-41.59	11012.74

NEXT TO LAST	15416.00	4671.16	-37.20	11010.55
LAST READING	15465.00	4720.03	-34.21	11008.75
TD	15465	4720.03	-34.21	11008.75

Surface Location	200	FS	400	FE
Projected BHL	4920	FS	434	FE
Location of				
Top Perfs/OH	836	FS	493	FE
Bottom Perfs/OH	4741	FS	446	FE

SUMMARY of Subsurface Locations

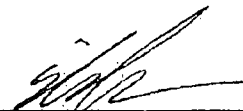
Surface Location	P-35-23S-32E	200	FS	400	FE	Vert. Depth
Top Perfs/OH	P-35-23S-32E	836	FS	493	FE	11016.34
Bottom Perfs/OH	A-35-23S-32E	4741	FS	446	FE	11013.54
Projected TD	A-35-23S-32E	4920	FS	434	FE	11008.75

DEC 03 2014



State of New Mexico
County of Lea

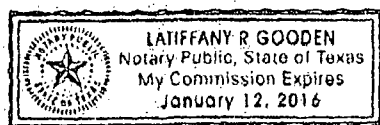
I, Michael K. Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 08/02/2014 through 08/17/2014 conduct or supervise the taking of a MWD survey from a depth of 10320 feet to a depth 15465 feet; that the data is true, correct, complete and within the limitations 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.





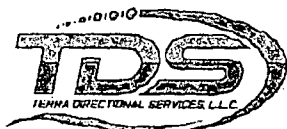
Notary Public's Signature

8610 N New Braunfels, Suite 405

San Antonio, Texas 78217

(210) 826-2022

SEP 08 2014



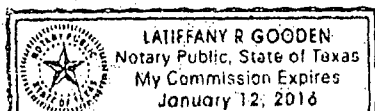
Client Name: Energen Resources
 Well Name: Cox 35 Federal #1H
 API Number: 30-025-4152
 County / Parish: Lea County

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	1504.30	1583.81	-06.00	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	-74.29	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

