

Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519



NM OIL CONSERVATION
ARTESIA DISTRICT

October 15, 2014

JAN 05 2015

Cimarex
600 N MARIENFELD STREET SUITE 600

RECEIVED

MIDLAND, TX 79701

Re:

Sec 8, T25S, R27E Eddy NM
N 32.13823 W 104.21435

CLIENT: Cimarex Energy Co.
WELL: White City 8 Federal 3H
FIELD: Cottonwood Draw; B.S.
RIG: Cactus 116
COUNTY: Eddy
API NO: 30-015-42160
JOB NO: 14MLD0502

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
John Gilchrist MWD	White City 8 Federal 3H Original Hole	6653.00 Ft to 11731.00 Ft	July 27, 2014 to August 1, 2014	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Joseph Hogan
Field Service Manager

Reservoir Development

PathFinder, a Schlumberger Company

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127USA

Phone: (405) 789-1515

Fax: (405) 789-1519

Well Reference:

Sec 8, T25S, R27E Eddy NM

N 32.13823 W 104.21435



I, John Gilchrist certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of July 27, 2014 through August 01, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 6653.00 feet to a depth of 11731.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Cimarex Energy Co. for the White City 8 Federal 3H Well (Original Hole) API No. 30-015-42160 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
John Gilchrist
MWD

Subscribed and Sworn to before me this 12nd day of AUG (month) 2014 (yr)

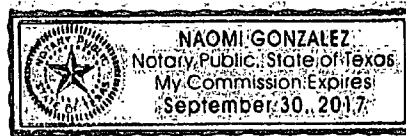
My Commission expires:

Sept. 30, 2017

Notary Public

Naomi Gonzalez (signature)

Ector TX
(County State)



SCHLUMBERGER

Survey Report

15-Oct-2014

Client.....: Cimarex Energy Co.
 Field.....: Cottonwood Draw; B.S.

Well.....: White City 8 Federal #3H
 API number.....: 30-015-42160
 Engineer.....: John Gilchrist

County.....: Eddy
 State.....: New Mexico
 Rig.....: Cactus 116

Spud date.....: 18-Jul-14
 Last survey date.....: 1-Aug-14
 Total accepted surveys...: 62
 MD of first survey.....: 6653.00 ft
 MD of last survey.....: 11731.00 ft

Latitude.....: 32° 8' 17.622" N
 Longitude.....: 104° 12' 51.675" W

----- Survey calculation methods-----

Method for positions...: Minimum curvature
 Method for DLS.....: Lubinski

----- Depth reference -----

Permanent datum.....: MSL
 Depth reference.....: Driller's Depth
 GL above permanent.....: 3220.00
 KB above permanent.....: 3238.00
 DF above permanent.....: 3238.00

----- Vertical section origin-----

Latitude (+N/-S).....: 0.00 ft
 Departure (+E/-W).....: 0.00 ft

----- Grid Coordinates -----

NAD27 Texas State Plane, Central Zone, US Feet
 X.....: 414043.50 ft
 Y.....: 578164.20 ft

Azimuth from Vsect Origin to target: 359.15 degrees

-----MWD Survey Reference Criteria-----

-----Run1----- Calculation Date: 27-Jul-2014
 Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
 Location B.....: 48139.22 nT Tolerance B.....: 300.00 nT
 Magnetic Dip: 59.9077 degrees Tolerance Dip: 0.45 degrees

-----Run2----- 2014 8-May-2011
 Location G.....: 998.63244 mgn Tolerance G.....: 2.50 mgn
 Location B.....: 48286.4 nT Tolerance B.....: 300.00 nT
 Magnetic Dip: 59.61 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 8-May-2011
 Location G.....: 998.63244 mgn Tolerance G.....: 2.50 mgn
 Location B.....: 48286.4 nT Tolerance B.....: 300.00 nT
 Magnetic Dip: 59.61 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2014

-----Run1-----
 Magnetic dec (+E/-W).....: 7.6555 degrees
 Grid Conv (+E/-W).....: 0.0655 degrees
 Total Azim Corr (+E/-W).....: 7.59 degrees

-----Survey Correction Index Description-----

0 = Uncorrected 1 = Sag Corrected
 2 = DMAG Corrected 3 = Sag + DMAG Corrected

Survey List													
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	89.00	0.31	38.82	89.00	89.00	0.19	0.19	0.15	0.24	38.82	0.35	Other	0
3	119.00	0.40	9.03	30.00	119.00	0.35	0.35	0.22	0.42	31.64	0.67	Other	0
4	179.00	0.40	7.71	60.00	179.00	0.76	0.77	0.28	0.82	19.96	0.02	Other	0
5	272.00	0.40	2.21	93.00	272.00	1.41	1.41	0.34	1.45	13.33	0.04	Other	0
6	328.00	0.48	6.21	56.00	327.99	1.84	1.84	0.37	1.88	11.30	0.15	Other	0
7	380.00	1.10	5.33	52.00	379.99	2.55	2.56	0.44	2.59	9.72	1.19	Other	0
8	402.00	1.10	358.70	22.00	401.98	2.97	2.98	0.45	3.01	8.65	0.58	Other	0
9	471.00	1.41	10.83	69.00	470.97	4.46	4.47	0.60	4.51	7.61	0.59	Other	0
10	523.00	1.41	0.11	52.00	522.95	5.73	5.74	0.72	5.79	7.14	0.51	Other	0

11	573.00	2.02	359.40	50.00	572.93	7.23	7.24	0.71	7.27	5.61	1.22	Other	0
12	649.00	1.32	0.81	76.00	648.90	9.44	9.45	0.71	9.48	4.29	0.92	Other	0
13	678.00	1.41	1.82	29.00	677.89	10.13	10.14	0.73	10.17	4.09	0.32	Other	0
14	738.00	1.49	10.43	60.00	737.87	11.63	11.65	0.89	11.68	4.37	0.39	Other	0
15	829.00	1.49	7.71	91.00	828.84	13.96	13.98	1.26	14.04	5.16	0.08	Other	0
16	921.00	1.58	11.31	92.00	920.81	16.39	16.41	1.67	16.5	5.82	0.14	Other	0
17	1015.00	1.89	8.63	94.00	1014.76	19.18	19.22	2.16	19.34	6.41	0.34	Other	0
18	1106.00	2.02	9.91	91.00	1105.71	22.24	22.28	2.66	22.44	6.81	0.15	Other	0
19	1195.00	1.01	22.21	89.00	1194.68	24.50	24.55	3.23	24.76	7.49	1.19	Other	0
20	1293.00	0.79	54.20	98.00	1292.67	25.68	25.75	4.10	26.07	9.05	0.55	Other	0
21	1380.00	1.32	60.84	87.00	1379.65	26.50	26.59	5.46	27.14	11.61	0.62	Other	0
22	1474.00	1.49	71.43	94.00	1473.62	27.39	27.50	7.57	28.52	15.38	0.33	Other	0
23	1568.00	1.80	70.20	94.00	1567.58	28.24	28.39	10.11	30.14	19.61	0.33	Other	0
24	1664.00	0.79	72.22	96.00	1663.56	28.92	29.10	12.16	31.54	22.68	1.05	Other	0
25	1759.00	1.10	93.23	95.00	1758.55	29.05	29.25	13.70	32.3	25.09	0.48	Other	0
26	1853.00	1.41	89.53	94.00	1852.52	28.98	29.21	15.75	33.19	28.34	0.34	Other	0
27	1944.00	1.32	97.62	91.00	1943.50	28.81	29.08	17.91	34.16	31.63	0.23	Other	0
28	1986.00	1.19	93.53	42.00	1985.49	28.71	28.99	18.83	34.57	33.00	0.38	Other	0
29	2132.00	0.79	91.03	146.00	2131.46	28.56	28.88	21.35	35.91	36.47	0.28	Other	0
30	2228.00	0.70	94.41	96.00	2227.46	28.48	28.82	22.59	36.62	38.09	0.10	Other	0
31	2324.00	0.70	84.83	96.00	2323.45	28.48	28.83	23.76	37.36	39.50	0.12	Other	0
32	2418.00	0.79	85.40	94.00	2417.44	28.56	28.93	24.98	38.23	40.80	0.10	Other	0
33	2513.00	0.88	78.24	95.00	2512.43	28.74	29.14	26.35	39.28	42.12	0.14	Other	0
34	2607.00	0.62	238.33	94.00	2606.43	28.62	29.02	26.62	39.38	42.54	1.57	Other	0
35	2703.00	0.88	240.53	96.00	2702.42	28.00	28.38	25.54	38.18	41.98	0.27	Other	0
36	2797.00	1.01	239.74	94.00	2796.41	27.25	27.61	24.19	36.71	41.23	0.14	Other	0
37	2891.00	0.88	236.31	94.00	2890.39	26.45	26.79	22.88	35.23	40.49	0.15	Other	0
38	2985.00	0.79	238.90	94.00	2984.38	25.73	26.05	21.72	33.92	39.82	0.10	Other	0
39	3081.00	0.88	231.83	96.00	3080.37	24.95	25.26	20.57	32.58	39.17	0.14	Other	0
40	3176.00	0.88	232.53	95.00	3175.36	24.07	24.36	19.42	31.16	38.56	0.01	Other	0
41	3270.00	0.88	239.21	94.00	3269.35	23.28	23.55	18.23	29.78	37.74	0.11	Other	0
42	3366.00	0.79	237.23	96.00	3365.34	22.56	22.82	17.04	28.48	36.75	0.10	Other	0
43	3461.00	0.62	224.14	95.00	3460.33	21.85	22.10	16.13	27.36	36.13	0.25	Other	0
44	3555.00	0.62	216.54	94.00	3554.33	21.09	21.32	15.47	26.34	35.97	0.09	Other	0
45	3650.00	0.62	201.51	95.00	3649.32	20.21	20.43	14.98	25.33	36.25	0.17	Other	0
46	3744.00	0.62	213.81	94.00	3743.32	19.32	19.53	14.51	24.33	36.60	0.14	Other	0
47	3838.00	0.62	206.03	94.00	3837.31	18.45	18.66	14.00	23.33	36.89	0.09	Other	0
48	3935.00	0.70	200.94	97.00	3934.31	17.43	17.63	13.56	22.24	37.57	0.10	Other	0
49	4030.00	0.79	194.21	95.00	4029.30	16.26	16.45	13.19	21.09	38.73	0.13	Other	0
50	4124.00	0.70	200.41	94.00	4123.29	15.10	15.29	12.83	19.96	40.02	0.13	Other	0
51	4219.00	0.70	205.73	95.00	4218.28	14.04	14.22	12.38	18.85	41.04	0.07	Other	0
52	4313.00	0.62	210.12	94.00	4312.28	13.09	13.26	11.88	17.8	41.84	0.10	Other	0
53	4407.00	0.62	207.83	94.00	4406.27	12.20	12.37	11.38	16.81	42.61	0.03	Other	0
54	4501.00	0.48	210.74	94.00	4500.27	11.42	11.59	10.94	15.94	43.37	0.15	Other	0
55	4596.00	0.62	195.62	95.00	4595.26	10.59	10.75	10.60	15.1	44.61	0.21	Other	0
56	4690.00	0.79	200.54	94.00	4689.26	9.50	9.65	10.24	14.07	46.69	0.19	Other	0
57	4782.00	0.88	190.83	92.00	4781.25	8.22	8.36	9.88	12.95	49.76	0.18	Other	0
58	4880.00	1.01	195.93	98.00	4879.23	6.65	6.79	9.50	11.68	54.44	0.16	Other	0
59	4976.00	1.01	189.20	96.00	4975.22	5.01	5.15	9.14	10.49	60.61	0.12	Other	0
60	5071.00	1.19	195.22	95.00	5070.20	3.24	3.37	8.74	9.37	68.94	0.22	Other	0
61	5165.00	1.32	199.70	94.00	5164.18	1.29	1.41	8.12	8.24	80.18	0.17	Other	0
62	5260.00	1.41	198.83	95.00	5259.15	-0.84	-0.73	7.38	7.41	95.66	0.10	Other	0
63	5355.00	1.58	194.52	95.00	5354.12	-3.20	-3.10	6.67	7.36	114.96	0.21	Other	0
64	5450.00	1.49	194.61	95.00	5449.08	-5.66	-5.57	6.03	8.21	132.71	0.09	Other	0
65	5543.00	1.41	195.93	93.00	5542.05	-7.92	-7.84	5.41	9.53	145.38	0.09	Other	0
66	5639.00	1.01	190.30	96.00	5638.03	-9.88	-9.81	4.94	10.98	153.28	0.43	Other	0
67	5734.00	1.19	199.00	95.00	5733.02	-11.63	-11.56	4.47	12.4	158.88	0.26	Other	0
68	5827.00	1.01	204.54	93.00	5826.00	-13.28	-13.22	3.81	13.76	163.92	0.22	Other	0
69	5922.00	1.10	182.13	95.00	5920.98	-14.94	-14.89	3.43	15.28	167.03	0.44	Other	0
70	6016.00	0.22	319.50	94.00	6014.98	-15.71	-15.66	3.28	16	168.17	1.35	Other	0
71	6109.00	0.62	38.03	93.00	6107.98	-15.18	-15.13	3.47	15.52	167.07	0.66	Other	0
72	6205.00	0.22	183.84	96.00	6203.97	-14.96	-14.90	3.78	15.37	165.77	0.85	Other	0
73	6298.00	0.40	264.52	93.00	6296.97	-15.16	-15.11	3.45	15.5	167.16	0.46	Other	0
74	6394.00	0.70	231.04	96.00	6392.97	-15.55	-15.51	2.66	15.74	170.29	0.45	Other	0
75	6488.00	0.79	238.51	94.00	6486.96	-16.23	-16.21	1.66	16.3	174.17	0.14	Other	0
76	6583.00	1.01	235.04	95.00	6581.95	-17.04	-17.03	0.41	17.04	178.62	0.24	Other	0
77	6619.00	1.19	234.64	36.00	6617.94	-17.43	-17.43	-0.15	17.43	180.50	0.50	Other	0
78	6653.00	1.28	243.36	34.00	6651.93	-17.79	-17.81	-0.78	17.82	182.51	0.62	SlimPulse	0
79	6747.00	0.57	327.59	94.00	6745.92	-17.85	-17.88	-1.98	17.99	186.30	1.44	SlimPulse	0
80	6780.00	3.51	15.39	33.00	6778.90	-16.74	-16.77	-1.80	16.86	186.11	9.56	SlimPulse	0
81	6841.00	9.37	13.81	61.00	6839.49	-10.14	-10.14	-0.11	10.14	180.64	9.60	SlimPulse	0
82	6936.00	14.25	0.44	95.00	6932.47	9.04	9.07	1.82	9.25	11.36	5.86	SlimPulse	0
83	6969.00	17.03	356.70	33.00	6964.24	17.93	17.96	1.57	18.02	5.01	8.96	SlimPulse	0
84	7000.00	19.06	353.77	31.00	6993.72	27.51	27.52	0.76	27.53	1.59	7.18	SlimPulse	0
85	7032.00	21.88	352.20	32.00	7023.70	38.63	38.63	-0.61	38.63	359.09	8.97	SlimPulse	0
86	7063.00	25.66	351.41	31.00	7052.06	51.02	50.99	-2.40	51.05	357.31	12.22	SlimPulse	0
87	7095.00	28.74	351.52	32.00	7080.52	65.51	65.45	-4.57	65.61	356.01	9.62	SlimPulse	0
88	7126.00	31.77	351.80	31.00	7107.29	81.00	80.90	-6.83	81.19	355.17	9.79	SlimPulse	0
89	7160.00	35.51	351.92	34.00	7135.60	99.68	99.55	-9.50	100	354.55	11.02	SlimPulse	0
90	7189.00	38.70	351.99	29.00	7158.72	117.03	116.87	-11.95	117.48	354.16	11.00	SlimPulse	0
91	7220.00	41.72	350.71	31.00	7182.39	136.86	136.65	-14.96	137.47	353.75	10.08	SlimPulse	0
92	7315.00	50.85	353.87	95.00	7247.98	204.96	204.62	-24.02	206.03	353.30	9.91	SlimPulse	0
93	7409.00	59.14	0.24	94.00	7301.89	281.78	281.40	-27.75	282.76	354.37	10.42	SlimPulse	0

94	7503.00	68.14	4.92	94.00	7343.60	365.73	365.41	-23.83	366.19	356.27	10.56	SlimPulse	0
95	7597.00	78.11	6.79	94.00	7370.85	454.94	454.78	-14.63	455.01	358.16	10.77	SlimPulse	0
96	7692.00	87.21	5.93	95.00	7382.98	548.32	548.32	-4.20	548.34	359.56	9.62	SlimPulse	0
97	7786.00	88.93	0.70	94.00	7386.14	641.98	642.07	1.22	642.07	0.11	5.86	SlimPulse	0
98	7881.00	89.21	358.15	95.00	7387.68	736.96	737.05	0.27	737.05	0.02	2.70	SlimPulse	0
99	7975.00	89.62	356.96	94.00	7388.64	830.92	830.96	-3.74	830.96	359.74	1.33	SlimPulse	0
100	8069.00	89.38	356.05	94.00	7389.46	924.82	924.78	-9.47	924.83	359.41	1.00	SlimPulse	0
101	8163.00	89.17	356.14	94.00	7390.64	1018.67	1018.55	-15.87	1018.67	359.11	0.24	SlimPulse	0
102	8257.00	89.45	358.68	94.00	7391.77	1112.62	1112.44	-20.12	1112.62	358.96	2.72	SlimPulse	0
103	8352.00	90.28	359.52	95.00	7392.00	1207.61	1207.43	-21.61	1207.62	358.97	1.24	SlimPulse	0
104	8446.00	90.17	358.42	94.00	7391.63	1301.61	1301.41	-23.30	1301.62	358.97	1.17	SlimPulse	0
105	8540.00	89.66	0.85	94.00	7391.77	1395.60	1395.40	-23.90	1395.6	359.02	2.64	SlimPulse	0
106	8635.00	88.76	358.32	95.00	7393.08	1490.58	1490.38	-24.59	1490.58	359.05	2.83	SlimPulse	0
107	8729.00	87.73	358.90	94.00	7395.96	1584.53	1584.31	-26.87	1584.53	359.03	1.26	SlimPulse	0
108	8823.00	87.76	357.29	94.00	7399.66	1678.44	1678.18	-30.00	1678.45	358.98	1.71	SlimPulse	0
109	8918.00	86.94	359.37	95.00	7404.06	1773.32	1773.03	-32.76	1773.33	358.94	1.92	SlimPulse	0
110	9013.00	88.73	359.05	95.00	7407.65	1868.25	1867.95	-34.07	1868.26	358.96	1.36	SlimPulse	0
111	9108.00	89.59	0.73	95.00	7409.05	1963.23	1962.93	-34.25	1963.23	359.00	1.99	SlimPulse	0
112	9203.00	89.79	359.47	95.00	7409.56	2058.21	2057.93	-34.08	2058.21	359.05	1.35	SlimPulse	0
113	9297.00	90.17	358.40	94.00	7409.59	2152.21	2151.91	-35.83	2152.21	359.05	1.20	SlimPulse	0
114	9392.00	89.14	2.66	95.00	7410.16	2247.16	2246.88	-34.94	2247.16	359.11	4.61	SlimPulse	0
115	9486.00	90.93	358.24	94.00	7410.10	2341.10	2340.85	-34.20	2341.1	359.16	5.07	SlimPulse	0
116	9581.00	88.76	0.08	95.00	7410.36	2436.09	2435.83	-35.59	2436.09	359.16	2.99	SlimPulse	0
117	9674.00	89.93	1.35	93.00	7411.42	2529.05	2528.82	-34.42	2529.05	359.22	1.85	SlimPulse	0
118	9769.00	89.97	358.97	95.00	7411.50	2623.81	2623.81	-34.16	2624.03	359.25	2.51	SlimPulse	0
119	9863.00	90.65	2.64	94.00	7411.00	2717.97	2717.78	-32.85	2717.98	359.31	3.98	SlimPulse	0
120	9958.00	90.86	0.79	95.00	7409.74	2812.86	2812.73	-30.00	2812.89	359.39	1.96	SlimPulse	0
121	10053.00	89.31	359.45	95.00	7409.60	2907.84	2907.72	-29.81	2907.87	359.41	2.16	SlimPulse	0
122	10148.00	90.38	357.89	95.00	7409.86	3002.84	3002.69	-32.02	3002.86	359.39	1.99	SlimPulse	0
123	10242.00	89.69	358.18	94.00	7409.80	3096.82	3096.64	-35.24	3096.84	359.35	0.80	SlimPulse	0
124	10337.00	90.28	358.81	95.00	7409.83	3191.81	3191.60	-37.73	3191.83	359.32	0.90	SlimPulse	0
125	10432.00	90.41	356.44	95.00	7409.26	3286.77	3286.51	-41.67	3286.78	359.27	2.50	SlimPulse	0
126	10526.00	89.52	359.04	94.00	7409.31	3380.73	3380.43	-45.37	3380.73	359.23	2.93	SlimPulse	0
127	10620.00	90.34	355.93	94.00	7409.43	3474.68	3474.33	-49.49	3474.68	359.18	3.42	SlimPulse	0
128	10715.00	88.80	0.77	95.00	7410.14	3569.64	3569.25	-52.22	3569.64	359.16	5.34	SlimPulse	0
129	10809.00	90.41	359.18	94.00	7410.79	3663.62	3663.25	-52.27	3663.62	359.18	2.41	SlimPulse	0
130	10904.00	89.35	0.95	95.00	7410.99	3758.60	3758.24	-52.17	3758.6	359.20	2.18	SlimPulse	0
131	10999.00	90.45	358.62	95.00	7411.16	3853.59	3853.23	-52.53	3853.59	359.22	2.71	SlimPulse	0
132	11093.00	88.59	1.70	94.00	7411.95	3947.55	3947.21	-52.27	3947.56	359.24	3.82	SlimPulse	0
133	11188.00	91.20	359.12	95.00	7412.12	4042.51	4042.19	-51.60	4042.52	359.27	3.86	SlimPulse	0
134	11282.00	88.35	0.63	94.00	7412.49	4136.49	4136.18	-51.80	4136.5	359.28	3.44	SlimPulse	0
135	11377.00	89.90	0.28	95.00	7413.94	4231.45	4231.16	-51.05	4231.47	359.31	1.67	SlimPulse	0
136	11472.00	88.63	1.40	95.00	7415.17	4326.40	4326.14	-49.65	4326.43	359.34	1.79	SlimPulse	0
137	11566.00	91.07	359.49	94.00	7415.42	4420.37	4420.13	-48.92	4420.4	359.37	3.30	SlimPulse	0
138	11661.00	89.38	358.20	95.00	7415.05	4515.36	4515.10	-50.83	4515.39	359.35	2.23	SlimPulse	0
139	11731.00	87.63	359.10	70.00	7416.88	4585.33	4585.05	-52.48	4585.36	359.34	2.82	SlimPulse	0
140	11776.00	87.63	359.10	45.00	7418.74	4630.29	4630.01	-53.18	4630.32	359.34	0.01	Proj to Bit	7

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM97126
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: CRISTEN BURDELL E-Mail: cburdell@cimarex.com		7. If Unit or C/A/Agreement, Name and/or No.
3a. Address 202 S. CHEYENNE AVE STE 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 918-560-7038	8. Well Name and No. WHITE CITY 8 FEDERAL 3H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T25S R27E 330FSL 2030FWL		9. API Well No. 30-015-42160
		10. Field and Pool, or Exploratory COTTONWOOD DRAW; BS
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

DRILLING:

7-18-14 spud well

7-19-14 TD 17 1/2" surface hole at 456'. ran 13 3/8 48#, J-55 ST&C casing to 456'. Mix & pump lead cmt: 495 sxs of Permium Plus C cmt: 14.8 ppg, 1.36 yld. circ 207 sxs of cmt to surface. WOC 24+ hrs.

7-21-14 Test casing to 1500 psi, for 30 min, ok.

7-12-14 TD 12 1/4" hole at 2048'

7-23-14 Ran 9 5/8" 40# J-55 casing to 2048'. Mix & pump 535 sxs of EconoCem cmt, 12.9 ppg, 1.88

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 05 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #284322 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad	
Name (Printed/Typed) CRISTEN BURDELL	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/08/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #284322 that would not fit on the form

32. Additional remarks, continued

yeild. Tail cmt: 175 sxs of Halcem C cmt, 14.8 ppg, 1.33 yld. Circ 226 of cmt to surface. WOC 24+ hrs.

7-24-14 Test casing to 1500 psi for 30 min, good test.

8-1-14 TD well at 11776'

8-2-14 Ran 5 1/2" 17#, L-80 Casing to 11776'

8-3-14 Mix & pump lead cmt: 925 sxs of TUned Light cmt: 10.8 ppg, 2.78 yld. Tail cmt: 1380 sxs of VersaCem H, 14.5 ppg, 1.23 yld. circ 377 sxs of cmt to surface. WOC

8-4-14 Rig Released

COMPLETION:

8-10-14 Test csg to 8500 # for 30 min. Ok.

8-29 - 9-1-14 Perf Bone Spring @ 7126-11730'. 360 Holes. Frac w/ 3,466,697 bbls fluid, 5,010,824 # sand.

9-2-14 Drill out plugs. CO to PBTD @ 11773'. Flow back well.

9-5-14 RIH w/ 2 3/8" tbg & GLV & set @ 6761'. GLV @ 17 & 3, 3233, 4438, 5443, 6188, 6708'. Turn well to production.

1743