

Oilfield Services, Central U.S. Land

Schlumberger

Reservoir Development

Drilling & Measurements (Anadrill)

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515

Fax: (405) 789-1519

December 30, 2015

Cimarex Energy Co.

202 S. Cheyenne Ave. Ste 1000

Tulsa, OK 74103

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 27 2016

RECEIVED

Re:

Sec 13, T25S, R26E

N 32.13648 W 104.24883

CLIENT: Cimarex Energy Co.

WELL: Federal 13 Com 9H

FIELD: Bone Spring

RIG: H&P 381

COUNTY: Eddy

API NO: 30-015-42778

JOB NO: 15MLD2666

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>
Julie Schmautz MWD	Federal 13 Com 9H Original Hole	6255.00 Ft to 11636.00 Ft	December 21, 2015 to December 26, 2015	SlimPulse

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

John Wilkerson
Field Service Manager

Oilfield Services, Central U.S. Land

Schlumberger

Reservoir Development

Drilling & Measurements (Anadrill)

9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515

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Well Reference:

Sec 13, T25S, R26E

N 32.13648 W 104.24883

I, Julie Schmautz certify that: I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 21, 2015 through December 26, 2015, conduct or supervise the taking of the SlimPulse surveys from a depth of 6255.00 feet to a depth of 11636.00 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 Federal 13 Com 9H Well (Original Hole) API No. 30-015-42778 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 Julie Schmautz
Julie Schmautz
MWD

Subscribed and Sworn to before me this 4th day of January (month) 2016 (yr)

My Commission expires:

September 5, 2016

Michelle Ellwood

Notary Public

Midland, TX

(County State)



(signature)

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 27 2016

RECEIVED

SCHLUMBERGER
Survey Report

30-Dec-2015

Client.....: Cimarex Energy Co.
Field.....: Bone Spring

Well.....: Federal 13 Com 9H
API number.....: 30-015-42778
Engineer.....: J. Schmautz

Spud date.....: 16-Dec-15
Last survey date.....: 26-Dec-15
Total accepted surveys.....: 66
MD of first survey.....: 6255.00 ft
MD of last survey.....: 11636.00 ft

County.....: Eddy
State.....: New Mexico
Rig.....: H&P 381

Latitude.....: 32° 8' 11.34" N
Longitude.....: 104° 14' 55.79" 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.....: 3278.00
KB above permanent.....: 3303.00
DF above permanent.....: 3303.00

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

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

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

NAD83 New Mexico State Plane, Eastern Zone, US Feet
X.....: 567493.50 ft
Y.....: 413398.60 ft

Azimuth from Vsect Origin to target: 178.97 degrees

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

-----Run1----- Calculation Date: 21-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48229.98 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 59.8953 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 22-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48229.68 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 59.8953 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 24-Dec-2015
Location G.....: 998.94325 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48229.1 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 59.8953 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2015

-----Run1-----
Magnetic dec (+E/-).....: 7.6404 degrees
Grid Conv (+E/-).....: 0.0404 degrees
Total Azim Corr (+E/-).....: 7.6 degrees

-----Run2-----
Magnetic dec (+E/-).....: 7.6402 degrees
Grid Conv (+E/-).....: 0.0402 degrees
Total Azim Corr (+E/-).....: 7.6 degrees

-----Run3-----
Magnetic dec (+E/-).....: 7.6396 degrees
Grid Conv (+E/-).....: 0.0496 degrees
Total Azim Corr (+E/-).....: 7.59 degrees

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

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

===== Survey List =====
Seq MD Incl Azim Course TVD V Sec N/-S E/-W Closure at Azi DLS Tool Correction

	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100ft)		
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	174.00	1.10	233.35	174.00	173.99	0.97	-1.00	-1.34	1.67	233.35	0.63	Other	0
3	205.00	1.19	228.66	31.00	204.98	1.35	-1.39	-1.82	2.29	232.69	0.42	Other	0
4	268.00	1.10	241.18	63.00	267.97	2.06	-2.11	-2.84	3.54	233.39	0.42	Other	0
5	358.00	1.10	246.59	90.00	357.95	2.79	-2.87	-4.39	5.25	236.83	0.12	Other	0
6	373.00	1.32	245.75	15.00	372.95	2.91	-3.00	-4.68	5.56	237.35	1.47	Other	0
7	447.00	1.32	245.58	74.00	446.93	3.59	-3.70	-6.23	7.25	239.30	0.01	Other	0
8	508.00	1.19	260.48	61.00	507.92	3.96	-4.10	-7.50	8.54	241.35	0.57	Other	0
9	569.00	1.32	256.73	61.00	568.90	4.20	-4.36	-8.81	9.83	243.65	0.25	Other	0
10	603.00	1.41	259.29	34.00	602.89	4.36	-4.53	-9.60	10.61	244.74	0.32	Other	0
11	663.00	1.32	259.68	60.00	662.88	4.59	-4.79	-11.00	12	246.47	0.15	Other	0
12	753.00	1.30	252.17	90.00	752.85	5.05	-5.29	-13.00	14.03	247.85	0.19	Other	0
13	844.00	1.49	239.25	91.00	843.83	5.94	-6.21	-15.00	16.23	247.50	0.40	Other	0
14	932.00	1.41	236.26	88.00	931.80	7.09	-7.40	-16.88	18.43	246.34	0.13	Other	0
15	1024.00	1.49	227.38	92.00	1023.77	8.50	-8.84	-18.70	20.68	244.71	0.26	Other	0
16	1116.00	1.71	218.86	92.00	1115.73	10.34	-10.71	-20.44	23.08	242.34	0.35	Other	0
17	1207.00	1.58	216.75	91.00	1206.69	12.38	-12.78	-22.04	25.48	239.90	0.16	Other	0
18	1298.00	1.49	177.86	91.00	1297.66	14.55	-14.96	-22.75	27.23	236.67	1.13	Other	0
19	1388.00	1.90	150.35	90.00	1387.63	17.03	-17.43	-21.97	28.04	231.57	1.00	Other	0
20	1483.00	1.80	141.47	95.00	1482.58	19.60	-19.97	-20.26	28.45	225.42	0.32	Other	0
21	1577.00	2.81	122.36	94.00	1576.50	22.04	-22.35	-17.39	28.32	217.89	1.34	Other	0
22	1672.00	3.78	117.57	95.00	1671.34	24.82	-25.05	-12.65	28.06	206.80	1.06	Other	0
23	1767.00	1.71	113.79	95.00	1766.23	26.91	-27.07	-8.58	28.4	197.58	2.19	Other	0
24	1836.00	1.10	123.19	69.00	1835.21	27.72	-27.85	-7.08	28.74	194.27	0.94	Other	0
25	1960.00	1.01	111.46	124.00	1959.19	28.80	-28.90	-5.07	29.34	189.95	0.19	Other	0
26	2054.00	0.62	120.69	94.00	2053.18	29.39	-29.46	-3.86	29.72	187.46	0.44	Other	0
27	2149.00	0.70	114.49	95.00	2148.17	29.91	-29.97	-2.89	30.11	185.51	0.11	Other	0
28	2243.00	0.88	107.99	94.00	2242.16	30.39	-30.43	-1.68	30.47	183.16	0.21	Other	0
29	2338.00	0.48	111.37	95.00	2337.15	30.78	-30.80	-0.62	30.8	181.15	0.42	Other	0
30	2527.00	0.40	82.67	189.00	2526.15	31.01	-31.00	0.77	31.01	178.57	0.12	Other	0
31	2622.00	0.40	117.26	95.00	2621.15	31.13	-31.11	1.40	31.14	177.43	0.25	Other	0
32	2717.00	0.31	185.55	95.00	2716.15	31.54	-31.52	1.67	31.56	176.97	0.43	Other	0
33	2811.00	0.31	165.16	94.00	2810.14	32.04	-32.02	1.71	32.06	176.94	0.12	Other	0
34	2906.00	0.22	101.57	95.00	2905.14	32.33	-32.30	1.95	32.36	176.54	0.30	Other	0
35	3001.00	0.22	250.59	95.00	3000.14	32.43	-32.40	1.96	32.46	176.54	0.45	Other	0
36	3096.00	0.40	216.66	95.00	3095.14	32.75	-32.73	1.59	32.77	177.22	0.26	Other	0
37	3190.00	0.22	231.25	94.00	3189.14	33.12	-33.10	1.25	33.13	177.83	0.21	Other	0
38	3285.00	0.09	233.76	95.00	3284.14	33.27	-33.26	1.05	33.28	178.19	0.14	Other	0
39	3380.00	0.22	256.78	95.00	3379.14	33.36	-33.35	0.81	33.36	178.60	0.15	Other	0
40	3474.00	0.31	260.39	94.00	3473.14	33.43	-33.43	0.39	33.43	179.34	0.10	Other	0
41	3569.00	0.40	194.25	95.00	3568.14	33.79	-33.80	0.05	33.8	179.91	0.42	Other	0
42	3664.00	0.62	212.36	95.00	3663.13	34.54	-34.55	-0.31	34.55	180.51	0.28	Other	0
43	3758.00	0.62	204.97	94.00	3757.13	35.42	-35.44	-0.79	35.45	181.28	0.09	Other	0
44	3853.00	0.40	236.57	95.00	3852.12	36.06	-36.09	-1.29	36.11	182.04	0.37	Other	0
45	3948.00	0.31	216.09	95.00	3947.12	36.44	-36.48	-1.71	36.52	182.69	0.16	Other	0
46	4042.00	0.40	250.05	94.00	4041.12	36.75	-36.80	-2.17	36.86	183.38	0.24	Other	0
47	4137.00	0.70	256.65	95.00	4136.12	36.98	-37.04	-3.05	37.17	184.70	0.32	Other	0
48	4232.00	0.22	230.68	95.00	4231.11	37.22	-37.29	-3.75	37.48	185.75	0.54	Other	0
49	4327.00	0.40	213.85	95.00	4326.11	37.61	-37.69	-4.08	37.91	186.18	0.21	Other	0
50	4421.00	0.62	231.38	94.00	4420.11	38.19	-38.28	-4.66	38.56	186.94	0.28	Other	0
51	4516.00	0.40	188.36	95.00	4515.10	38.83	-38.92	-5.11	39.26	187.48	0.45	Other	0
52	4611.00	0.70	170.96	95.00	4610.10	39.73	-39.83	-5.07	40.15	187.25	0.36	Other	0
53	4705.00	0.62	198.69	94.00	4704.09	40.78	-40.87	-5.14	41.2	187.17	0.35	Other	0
54	4800.00	0.62	198.95	95.00	4799.09	41.74	-41.85	-5.47	42.2	187.45	0.00	Other	0
55	4895.00	0.88	191.96	95.00	4894.08	42.94	-43.05	-5.79	43.43	187.66	0.29	Other	0
56	4990.00	0.40	189.06	95.00	4989.07	43.97	-44.09	-5.99	44.49	187.74	0.51	Other	0
57	5084.00	0.48	197.59	94.00	5083.07	44.67	-44.79	-6.16	45.21	187.84	0.11	Other	0
58	5179.00	1.01	196.89	95.00	5178.06	45.84	-45.97	-6.53	46.43	188.08	0.56	Other	0
59	5274.00	1.01	193.05	95.00	5273.05	47.45	-47.58	-6.96	48.09	188.32	0.07	Other	0
60	5369.00	1.41	198.95	95.00	5368.03	49.36	-49.51	-7.53	50.07	188.65	0.44	Other	0
61	5493.00	0.79	197.08	124.00	5492.00	51.61	-51.77	-8.27	52.42	189.08	0.50	Other	0
62	5558.00	0.70	215.96	65.00	5557.00	52.35	-52.52	-8.64	53.22	189.34	0.40	Other	0
63	5653.00	0.88	281.79	95.00	5651.99	52.65	-52.84	-9.69	53.72	190.40	0.92	Other	0
64	5742.00	1.19	287.85	89.00	5740.98	52.20	-52.41	-11.24	53.61	192.11	0.37	Other	0
65	5842.00	0.79	269.18	100.00	5840.96	51.86	-52.10	-12.92	53.68	193.93	0.51	Other	0
66	5937.00	0.31	69.88	95.00	5935.96	51.78	-52.03	-13.33	53.71	194.38	1.14	Other	0
67	6031.00	1.01	148.15	94.00	6029.95	52.41	-52.64	-12.66	54.14	193.52	1.06	Other	0
68	6126.00	0.62	185.28	95.00	6124.94	53.64	-53.87	-12.26	55.24	192.83	0.67	Other	0
69	6255.00	0.45	233.40	129.00	6253.94	54.62	-54.86	-12.73	56.32	193.07	0.36	SlimPulse	0
70	6349.00	0.24	215.08	94.00	6347.94	55.00	-55.24	-13.14	56.78	193.38	0.24	SlimPulse	0
71	6444.00	0.31	201.57	95.00	6442.94	55.40	-55.65	-13.35	57.23	193.49	0.10	SlimPulse	0
72	6500.00	0.83	119.58	56.00	6498.93	55.75	-55.99	-13.05	57.49	193.12	1.51	SlimPulse	0
73	6540.00	3.44	110.20	40.00	6538.90	56.33	-56.55	-11.68	57.74	191.67	6.55	SlimPulse	0
74	6571.00	6.44	104.04	31.00	6569.78	57.12	-57.29	-9.11	58.01	189.04	9.83	SlimPulse	0
75	6634.00	14.61	97.59	63.00	6631.67	59.23	-59.20	2.21	59.24	177.86	13.07	SlimPulse	0
76	6681.00	20.65	101.89	47.00	6676.45	61.98	-61.69	16.20	63.79	165.28	13.14	SlimPulse	0
77	6729.00	26.34	105.43	48.00	6720.45	66.89	-66.27	34.76	74.84	152.32	12.21	SlimPulse	0
78	6776.00	32.20	105.84	47.00	6761.44	73.48	-72.47	56.88	92.13	141.87	12.48	SlimPulse	0
79	6824.00	36.43	108.63	48.00	6801.08	82.00	-80.52	82.70	115.43	134.23	9.41	SlimPulse	0
80	6871.00	40.55	116.32	47.00	6837.88	93.72	-91.76	109.65	142.98	129.93	13.42	SlimPulse	0
81	6918.00	46.31	121.45	47.00	6872.00	109.89	-107.42	137.87	174.78	127.92	14.37	SlimPulse	0

82	7013.00	52.49	128.39	95.00	6933.84	152.33	-148.81	196.80	246.73	127.09	8.54	SlimPulse	0
83	7108.00	57.12	137.40	95.00	6988.66	206.20	-201.67	253.45	323.9	128.51	9.15	SlimPulse	0
84	7203.00	59.93	147.48	95.00	7038.35	271.23	-265.83	302.65	402.82	131.29	9.52	SlimPulse	0
85	7297.00	64.83	158.37	94.00	7082.02	345.95	-339.89	340.31	480.97	134.96	11.51	SlimPulse	0
86	7344.00	69.99	164.75	47.00	7100.08	387.33	-381.03	353.98	520.08	137.11	16.66	SlimPulse	0
87	7392.00	74.50	168.74	48.00	7114.72	431.99	-425.50	364.43	560.24	139.42	12.28	SlimPulse	0
88	7439.00	77.09	171.85	47.00	7126.26	477.03	-470.41	372.10	599.79	141.66	8.46	SlimPulse	0
89	7487.00	81.26	177.12	48.00	7135.28	524.00	-517.31	376.62	639.88	143.94	13.84	SlimPulse	0
90	7534.00	87.35	180.61	47.00	7139.94	570.74	-564.04	377.54	678.73	146.20	14.91	SlimPulse	0
91	7582.00	91.03	181.97	48.00	7140.62	618.69	-612.01	376.46	718.52	148.40	8.18	SlimPulse	0
92	7613.00	91.76	182.12	31.00	7139.86	649.63	-642.98	375.35	744.52	149.72	2.38	SlimPulse	0
93	7719.00	89.86	183.80	106.00	7138.37	755.36	-748.82	369.89	835.19	153.71	2.39	SlimPulse	0
94	7814.00	88.28	185.07	95.00	7139.91	849.91	-843.52	362.55	918.13	156.74	2.14	SlimPulse	0
95	7908.00	88.52	185.51	94.00	7142.53	943.30	-937.08	353.89	1001.68	159.31	0.54	SlimPulse	0
96	8003.00	89.31	184.87	95.00	7144.33	1037.72	-1031.68	345.30	1087.93	161.49	1.07	SlimPulse	0
97	8098.00	89.66	185.52	95.00	7145.19	1132.16	-1126.28	336.70	1175.53	163.36	0.77	SlimPulse	0
98	8193.00	89.48	185.54	95.00	7145.90	1226.53	-1220.84	327.55	1264.01	164.98	0.18	SlimPulse	0
99	8288.00	89.76	185.84	95.00	7146.53	1320.88	-1315.37	318.12	1353.29	166.40	0.43	SlimPulse	0
100	8383.00	89.69	185.61	95.00	7146.98	1415.22	-1409.89	308.65	1443.28	167.65	0.25	SlimPulse	0
101	8477.00	89.79	185.15	94.00	7147.41	1508.63	-1503.48	299.83	1533.08	168.72	0.50	SlimPulse	0
102	8572.00	89.31	184.17	95.00	7148.15	1603.15	-1598.16	292.11	1624.63	169.64	1.15	SlimPulse	0
103	8667.00	90.24	184.37	95.00	7148.52	1697.74	-1692.89	285.03	1716.72	170.44	1.00	SlimPulse	0
104	8762.00	90.17	182.80	95.00	7148.18	1792.43	-1787.70	279.08	1809.35	171.13	1.65	SlimPulse	0
105	8856.00	89.62	180.84	94.00	7148.35	1886.31	-1881.65	276.09	1901.8	171.65	2.17	SlimPulse	0
106	8951.00	89.35	181.03	95.00	7149.20	1981.25	-1976.63	274.55	1995.61	172.09	0.35	SlimPulse	0
107	9046.00	90.59	183.53	95.00	7149.26	2076.08	-2071.55	270.77	2089.17	172.55	2.94	SlimPulse	0
108	9140.00	90.72	184.27	94.00	7148.19	2169.73	-2165.32	264.37	2181.4	173.04	0.80	SlimPulse	0
109	9235.00	90.55	184.60	95.00	7147.13	2264.29	-2260.03	257.02	2274.6	173.51	0.39	SlimPulse	0
110	9330.00	90.45	185.02	95.00	7146.30	2358.79	-2354.69	249.06	2367.83	173.96	0.45	SlimPulse	0
111	9425.00	90.52	186.26	95.00	7145.50	2453.15	-2449.23	239.73	2460.93	174.41	1.31	SlimPulse	0
112	9520.00	90.62	185.05	95.00	7144.56	2547.49	-2543.76	230.37	2554.17	174.83	1.28	SlimPulse	0
113	9615.00	90.83	184.84	95.00	7143.37	2641.97	-2638.40	222.17	2647.74	175.19	0.31	SlimPulse	0
114	9710.00	90.86	184.54	95.00	7141.97	2736.48	-2733.07	214.40	2741.47	175.51	0.32	SlimPulse	0
115	9804.00	90.79	185.24	94.00	7140.61	2829.97	-2826.72	206.39	2834.24	175.82	0.75	SlimPulse	0
116	9899.00	89.72	185.06	95.00	7140.18	2924.42	-2921.33	197.86	2928.02	176.13	1.14	SlimPulse	0
117	9994.00	90.03	185.50	95.00	7140.38	3018.84	-3015.93	189.12	3021.85	176.41	0.57	SlimPulse	0
118	10089.00	89.66	185.31	95.00	7140.64	3113.24	-3110.50	180.17	3115.72	176.68	0.45	SlimPulse	0
119	10184.00	89.83	184.14	95.00	7141.07	3207.76	-3205.18	172.35	3209.81	176.92	1.24	SlimPulse	0
120	10278.00	89.79	183.88	94.00	7141.38	3301.40	-3298.95	165.78	3303.11	177.12	0.28	SlimPulse	0
121	10373.00	90.21	183.33	95.00	7141.38	3396.09	-3393.76	159.81	3397.52	177.30	0.72	SlimPulse	0
122	10468.00	90.31	183.67	95.00	7140.95	3490.79	-3488.58	154.01	3491.98	177.47	0.38	SlimPulse	0
123	10562.00	90.00	182.89	94.00	7140.70	3584.52	-3582.43	148.62	3585.51	177.62	0.90	SlimPulse	0
124	10657.00	90.34	182.94	95.00	7140.41	3679.29	-3677.30	143.79	3680.11	177.76	0.37	SlimPulse	0
125	10752.00	90.10	182.10	95.00	7140.04	3774.11	-3772.21	139.62	3774.79	177.88	0.92	SlimPulse	0
126	10847.00	90.52	180.67	95.00	7139.53	3869.02	-3867.18	137.32	3869.61	177.97	1.57	SlimPulse	0
127	10941.00	90.59	181.29	94.00	7138.62	3962.96	-3961.16	135.70	3963.48	178.04	0.67	SlimPulse	0
128	11036.00	90.03	183.20	95.00	7138.11	4057.80	-4056.08	131.98	4058.23	178.14	2.08	SlimPulse	0
129	11131.00	89.79	184.02	95.00	7138.25	4152.49	-4150.89	126.00	4152.8	178.26	0.90	SlimPulse	0
130	11225.00	90.17	183.02	94.00	7138.28	4246.19	-4244.71	120.23	4246.41	178.38	1.14	SlimPulse	0
131	11320.00	89.86	182.62	95.00	7138.25	4340.97	-4339.60	115.56	4341.13	178.47	0.53	SlimPulse	0
132	11415.00	90.93	183.74	95.00	7137.59	4435.71	-4434.45	110.30	4435.82	178.58	1.63	SlimPulse	0
133	11510.00	89.93	183.17	95.00	7136.88	4530.42	-4529.27	104.57	4530.48	178.68	1.21	SlimPulse	0
134	11636.00	90.62	184.26	126.00	7136.27	4655.98	-4655.00	96.40	4656	178.81	1.03	SlimPulse	0
135	11706.00	90.62	184.26	70.00	7135.52	4725.68	-4724.80	91.20	4725.68	178.89	0.00	PTB	7

Drilling & Measurements, North America Land

3329 W. Pinhook Road
Lafayette, LA 70508
tel. +1 337-233-3982

Schlumberger

January 12, 2016

CIMAREX

Attn: Meera Ramoutar
600 N. Marienfeld
Suite 600
Midland, TX 79701

RE: M/LWD Services
CIMAREX ENERGY CO.
Federal 13 #9H
Cottonwood Draw; B.S. Field
Eddy County, NM
API Well No.: 30-015-42778
Job No.: 15MLD2666

Dear Meera Ramoutar:

Enclosed please find the following M/LWD presentations furnished by Schlumberger on the above captioned well.

FINAL PRINT WELL DATA

- 1 – (1") MD Gamma-Ray Log Report
- 1 – (1") TVD Gamma-Ray Log Report
- 1 – (2") MD Gamma-Ray Log Report
- 1 – (2") TVD Gamma-Ray Log Report
- 1 – (5") MD Gamma-Ray Log Report
- 1 – (5") TVD Gamma-Ray Log Report
- 1 – CD containing LAS & TIF Log and Survey Data
- 1 – Copy of Transmittal Documentation

Should you have any questions or comments concerning the enclosed log data please contact Alex Cantrall, Log Analyst II, by email acantrall@slb.com or call (800) 377-3982.

We trust that you are satisfied with the M/LWD work provided on this job.

Schlumberger appreciates the opportunity to work with you and we look forward to your continued business support.

Sincerely,

Sue Prejean M / LWD Distribution and Regulatory Specialist
Tracie Broussard M / LWD Data Distribution Clerk

337.572.2208 (Sue Direct #)
337.769-6036 (Tracie Direct #)
hprejean01@pathfinder.slb.com
tbroussard01@slb.com

Enclosure