

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



December 30, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

CLIENT: Cimarex Energy Co of Colorado
WELL: Taos Federal 5H
FIELD: Cotton Draw; BS
RIG: Cactus 116
COUNTY: Eddy
API NO: 30-015-41720
JOB NO: 14MLD0506

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>
De'Jon Douglas MWD	Taos Federal 5H Original Hole	6745.00 Ft to 11744.00 Ft	November 29, 2014 to December 7, 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

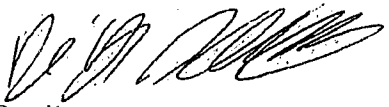
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PATHFINDER
A Schlumberger Company

Well Reference:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

I, De'Jon Douglas certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 29, 2014 through December 07, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 6745.00 feet to a depth of 11744.00 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 of Colorado for the Taos Federal 5H Well (Original Hole) API No. 30-015-41720 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 
De'Jon Douglas
MWD

Subscribed and Sworn to before me this 30 day of December (month) 2014 (yr)

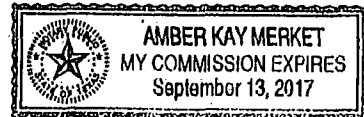
My Commission expires:

September 13, 2017

Amber Kay Merket
Notary Public

Midland County, Texas
(County State)

(signature)



SCHLUMBERGER
Survey Report

29-Dec-2014

Client..... Cimarex Energy Co of Colo
Field..... Cotton Draw; BS

Well..... Taos Federal SH
API number..... 30-015-41720
Engineer..... D. Douglas

Spud date..... 20-Nov-14
Last survey date..... 7-Dec-14
Total accepted surveys... 66
MD of first survey..... 6745.00 ft
MD of last survey..... 11744.00 ft

County..... Eddy
State..... New Mexico
Rlg..... Cactus 116

Latitude..... 32° 10' 1.786" N
Longitude..... 104° 14' 10.735" 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..... 3355.00
KB above permanent..... 3373.00
DF above permanent..... 3373.00

----- 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..... 571335.70 ft
Y..... 424562.40 ft

Azimuth from Vsect Origin to target: 359.73 degrees

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

-----Run1----- Calculation Date: 29-Nov-2014
Location G..... 998.63244 mgn Tolerance G... 2.50 mgn
Location B..... 48278.75 nT Tolerance B... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 1-Dec-2014
Location G..... 998.63244 mgn Tolerance G... 2.50 mgn
Location B..... 48278.75 nT Tolerance B... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 2-Dec-2014
Location G..... 998.63244 mgn Tolerance G... 2.50 mgn
Location B..... 48278.75 nT Tolerance B... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run4----- Calculation Date: 4-Dec-2014
Location G..... 998.63244 mgn Tolerance G... 2.50 mgn
Location B..... 48278.75 nT Tolerance B... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2014

-----Run1-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)... 7.67 degrees

-----Run2-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)... 7.67 degrees

-----Run3-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)... 7.67 degrees

-----Run#-----

Magnetic dec (+E/W).....

Grid Conv (+E/W).....

Total Azim Corr (+E/W)....

7.717 degrees

0.047 degrees

7.67 degrees

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

0 = Uncorrected 1 = Sag Corrected

2 = DMAG Corrected 3 = Sag + DMAG Corrected

Seq	MD (ft)	Incl (deg)	Azim (deg)	Survey List			N/S (ft)	E/W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
				Course (ft)	TVD (ft)	V Sec (ft)							
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	139.00	1.19	241.08	139.00	138.99	-0.69	-0.70	-1.26	1.44	241.08	0.86	Other	0
3	205.00	1.10	231.26	66.00	204.98	-1.41	-1.43	-2.36	2.76	238.83	0.33	Other	0
4	265.00	1.33	234.70	60.00	264.96	-2.17	-2.19	-3.37	4.02	237.04	0.40	Other	0
5	315.00	1.50	237.91	50.00	314.95	-2.85	-2.87	-4.40	5.26	236.89	0.38	Other	0
6	414.00	1.59	234.47	99.00	413.91	-4.33	-4.36	-6.62	7.92	236.64	0.13	Other	0
7	507.00	1.81	241.61	93.00	506.87	-5.76	-5.81	-8.96	10.68	237.06	0.33	Other	0
8	567.00	1.90	238.31	60.00	566.84	-6.73	-6.78	-10.64	12.62	237.50	0.23	Other	0
9	630.00	1.90	235.18	63.00	629.81	-7.87	-7.92	-12.39	14.7	237.39	0.16	Other	0
10	725.00	2.21	230.60	95.00	724.74	-9.92	-9.99	-15.09	18.1	236.51	0.37	Other	0
11	819.00	2.30	232.27	94.00	818.67	-12.21	-12.29	-17.99	21.79	235.65	0.12	Other	0
12	913.00	2.12	235.40	94.00	912.60	-14.33	-14.43	-20.91	25.41	235.39	0.23	Other	0
13	1002.00	1.90	237.60	89.00	1001.55	-16.05	-16.16	-23.51	28.53	235.50	0.26	Other	0
14	1091.00	1.72	242.10	89.00	1090.50	-17.45	-17.57	-25.94	31.33	235.88	0.26	Other	0
15	1183.00	1.41	258.36	92.00	1182.47	-18.31	-18.45	-28.27	33.75	236.87	0.59	Other	0
16	1271.00	1.02	268.67	88.00	1270.45	-18.54	-18.68	-30.11	35.44	238.18	0.51	Other	0
17	1369.00	0.62	98.92	98.00	1368.44	-18.64	-18.79	-30.46	35.79	238.33	1.67	Other	0
18	1464.00	2.03	94.69	95.00	1463.42	-18.87	-19.00	-28.27	34.07	236.09	1.49	Other	0
19	1560.00	1.10	79.27	96.00	1559.38	-18.85	-18.97	-25.67	31.92	233.54	1.05	Other	0
20	1652.00	1.90	81.08	92.00	1651.35	-18.46	-18.57	-23.30	29.79	231.44	0.87	Other	0
21	1746.00	3.40	86.28	94.00	1745.24	-18.06	-18.09	-18.98	26.26	226.28	1.61	Other	0
22	1842.00	3.14	92.80	96.00	1841.09	-18.03	-18.09	-13.51	22.58	216.75	0.47	Other	0
23	1934.00	1.59	97.43	92.00	1933.01	-18.33	-18.38	-9.73	20.8	207.89	1.70	Other	0
24	2032.00	1.19	100.60	98.00	2030.98	-18.71	-18.74	-7.38	20.14	201.49	0.42	Other	0
25	2222.00	1.02	92.31	190.00	2220.94	-19.16	-19.17	-7.35	19.54	191.07	0.12	Other	0
26	2315.00	1.10	100.03	93.00	2313.93	-19.35	-19.36	-2.04	19.47	186.03	0.18	Other	0
27	2507.00	0.80	75.57	192.00	2505.90	-19.35	-19.35	1.07	19.38	176.84	0.26	Other	0
28	2602.00	1.10	82.75	95.00	2600.89	-19.08	-19.07	2.62	19.25	172.19	0.34	Other	0
29	2697.00	0.71	64.82	95.00	2695.88	-18.72	-18.70	4.05	19.14	167.77	0.50	Other	0
30	2791.00	0.40	71.65	94.00	2789.87	-18.38	-18.35	4.89	18.99	165.08	0.34	Other	0
31	2883.00	0.49	118.97	92.00	2881.87	-18.47	-18.44	5.54	19.26	163.28	0.40	Other	0
32	2979.00	0.40	123.78	96.00	2977.87	-18.86	-18.83	6.18	19.82	161.83	0.10	Other	0
33	3076.00	0.49	121.09	97.00	3074.86	-19.26	-19.23	6.81	20.4	160.49	0.10	Other	0
34	3169.00	0.22	90.51	93.00	3167.86	-19.47	-19.44	7.33	20.77	159.33	0.34	Other	0
35	3262.00	0.31	166.79	93.00	3260.86	-19.72	-19.68	7.57	21.09	158.96	0.36	Other	0
36	3355.00	0.31	162.87	93.00	3353.86	-20.20	-20.17	7.70	21.59	159.10	0.02	Other	0
37	3452.00	0.22	33.35	97.00	3450.86	-20.30	-20.26	7.88	21.74	158.75	0.50	Other	0
38	3548.00	0.31	224.16	96.00	3546.86	-20.66	-20.63	7.33	21.89	160.43	0.16	Other	0
39	3642.00	0.40	243.42	94.00	3640.86	-20.85	-20.82	6.97	21.95	161.48	0.33	Other	0
40	3737.00	0.09	234.70	95.00	3735.86	-20.85	-20.88	6.59	21.89	162.48	0.35	Other	0
41	3830.00	0.40	266.69	93.00	3828.86	-20.91	-20.88	5.77	21.8	164.65	0.26	Other	0
42	3924.00	0.62	255.23	94.00	3922.85	-21.05	-21.03	5.09	21.76	166.47	0.43	Other	0
43	4019.00	0.22	270.87	95.00	4017.85	-21.18	-21.16	5.09	21.76	166.47	0.43	Other	0
44	4113.00	0.31	213.15	94.00	4111.85	-21.39	-21.37	4.77	21.89	167.41	0.28	Other	0
45	4207.00	0.22	301.68	94.00	4205.85	-21.50	-21.48	4.48	21.95	168.22	0.40	Other	0
46	4301.00	0.22	268.89	94.00	4299.85	-21.41	-21.39	4.14	21.79	169.03	0.13	Other	0
47	4396.00	0.71	262.55	95.00	4394.84	-21.49	-21.47	3.38	21.74	171.06	0.52	Other	0
48	4490.00	0.62	231.96	94.00	4488.84	-21.87	-21.86	2.40	21.99	173.73	0.38	Other	0
49	4584.00	0.71	229.19	94.00	4582.83	-22.56	-22.55	1.56	22.61	176.04	0.10	Other	0
50	4679.00	0.80	229.58	95.00	4677.82	-23.37	-23.37	0.61	23.38	178.51	0.09	Other	0
51	4773.00	1.19	227.47	94.00	4771.81	-24.45	-24.45	-0.61	24.46	181.43	0.42	Other	0
52	4868.00	1.19	243.82	95.00	4866.79	-25.55	-25.56	-2.22	25.65	184.97	0.36	Other	0
53	4963.00	1.10	224.34	95.00	4961.77	-26.63	-26.64	-3.74	26.91	188.00	0.42	Other	0
54	5062.00	1.50	225.75	99.00	5060.74	-28.20	-28.23	-5.34	28.73	190.71	0.41	Other	0
55	5157.00	1.50	223.37	95.00	5155.71	-29.97	-30.00	-7.08	30.82	193.28	0.07	Other	0
56	5252.00	1.19	225.35	95.00	5250.68	-31.56	-31.60	-8.64	32.76	195.29	0.33	Other	0
57	5344.00	1.50	205.92	92.00	5342.66	-33.30	-33.35	-9.84	34.77	196.44	0.59	Other	0
58	5439.00	1.59	207.59	95.00	5437.63	-35.59	-35.64	-11.00	37.3	197.15	0.11	Other	0
59	5533.00	1.50	231.08	94.00	5531.59	-37.51	-37.57	-12.56	39.61	198.48	0.68	Other	0
60	5627.00	1.59	226.28	94.00	5625.56	-39.17	-39.24	-14.46	41.82	200.23	0.17	Other	0
61	5721.00	2.43	215.04	94.00	5719.50	-41.70	-41.77	-16.54	44.93	201.61	0.98	Other	0
62	5816.00	1.50	218.74	95.00	5814.44	-44.30	-44.39	-18.48	48.09	202.60	0.99	Other	0
63	5912.00	1.59	194.77	96.00	5910.41	-46.57	-46.66	-19.61	50.61	202.79	0.67	Other	0
64	6006.00	1.81	200.90	94.00	6004.37	-49.21	-49.31	-20.47	53.39	202.54	0.30	Other	0
65	6099.00	2.03	194.20	93.00	6097.32	-52.18	-52.28	-21.40	56.49	202.26	0.34	Other	0
66	6194.00	1.19	174.10	95.00	6192.28	-54.79	-54.89	-21.71	59.03	201.58	1.05	Other	0
67	6288.00	0.88	173.53	94.00	6286.26	-56.48	-56.58	-21.52	60.53	200.83	0.33	Other	0
68	6383.00	0.31	194.59	95.00	6381.26	-57.45	-57.55	-21.51	61.44	200.49	0.63	Other	0
69	6478.00	0.71	224.34	95.00	6476.25	-58.12	-58.22	-21.98	62.23	200.69	0.49	Other	0

70	6573.00	1.19	213.72	95.00	6571.24	-59.35	-59.46	-22.94	63.74	201.10	0.54	Other
71	6656.00	1.59	205.39	83.00	6654.22	-61.11	-61.22	-23.91	65.72	201.34	0.54	Other
72	6745.00	2.41	356.52	89.00	6743.19	-60.35	-60.47	-24.56	65.26	202.10	4.36	SlimPulse
73	6840.00	9.32	355.24	95.00	6837.64	-50.68	-50.80	-25.32	56.76	206.49	7.28	SlimPulse
74	6934.00	20.74	13.17	94.00	6928.31	-26.80	-26.91	-22.15	34.85	219.46	12.98	SlimPulse
75	6964.00	23.73	17.11	30.00	6956.08	-15.87	-15.96	-19.16	24.94	230.20	11.11	SlimPulse
76	7029.00	30.43	27.62	65.00	7013.96	11.20	11.17	-7.66	13.54	325.55	12.64	SlimPulse
77	7061.00	33.24	31.97	32.00	7041.14	25.79	25.79	0.74	25.8	22.78	1.65	SlimPulse
78	7158.00	37.22	32.69	97.00	7120.36	72.91	73.05	30.67	79.23	22.78	4.13	SlimPulse
79	7205.00	40.82	23.49	47.00	7156.90	98.93	99.14	44.49	108.66	24.17	14.50	SlimPulse
80	7240.00	44.07	16.15	35.00	7192.74	121.09	121.34	52.44	132.19	23.37	16.91	SlimPulse
81	7270.00	47.37	11.28	30.00	7203.69	141.93	142.20	57.50	153.38	22.02	15.99	SlimPulse
82	7300.00	50.72	6.55	30.00	7223.36	164.28	164.57	60.99	175.51	20.33	16.31	SlimPulse
83	7333.00	54.05	2.24	33.00	7243.50	190.32	190.62	62.97	200.75	18.28	14.46	SlimPulse
84	7364.00	56.99	1.30	31.00	7261.05	215.86	216.16	63.76	225.36	16.43	9.81	SlimPulse
85	7394.00	60.15	0.81	30.00	7276.69	241.44	241.75	64.23	250.14	14.88	10.63	SlimPulse
86	7428.00	63.01	359.58	34.00	7292.87	271.65	271.65	64.32	279.16	13.32	9.00	SlimPulse
87	7459.00	65.70	357.59	31.00	7306.29	299.28	299.58	63.62	306.26	11.99	10.40	SlimPulse
88	7490.00	68.04	355.03	31.00	7318.47	327.73	328.03	61.79	333.79	10.67	10.71	SlimPulse
89	7522.00	71.41	353.73	32.00	7329.55	357.61	357.89	58.84	362.7	9.34	11.20	SlimPulse
90	7554.00	76.14	352.91	32.00	7338.49	388.14	388.40	55.27	392.31	8.10	14.99	SlimPulse
91	7584.00	80.33	352.28	30.00	7344.61	417.27	417.52	51.48	420.68	7.03	14.10	SlimPulse
92	7618.00	84.38	352.79	34.00	7349.13	450.70	450.92	47.10	453.38	5.96	12.02	SlimPulse
93	7649.00	87.11	353.01	31.00	7351.43	481.39	481.60	43.28	483.54	5.14	8.82	SlimPulse
94	7679.00	87.49	353.82	30.00	7352.85	511.17	511.37	39.85	512.92	4.46	2.98	SlimPulse
95	7759.00	89.48	354.09	80.00	7354.96	590.74	590.89	31.43	591.73	3.04	2.52	SlimPulse
96	7871.00	88.69	354.81	94.00	7358.94	795.88	795.95	12.22	796.04	0.88	0.17	SlimPulse
97	7965.00	88.62	354.96	94.00	7361.25	890.54	890.57	4.08	890.58	0.26	0.27	SlimPulse
98	8060.00	88.59	355.21	95.00	7363.54	984.29	984.28	-2.91	984.29	359.83	1.13	SlimPulse
99	8154.00	88.62	356.27	94.00	7363.54	984.29	984.28	-2.91	984.29	359.83	1.13	SlimPulse
100	8248.00	88.62	357.38	94.00	7365.80	1078.14	1078.11	-8.11	1078.14	359.57	1.18	SlimPulse
101	8343.00	88.62	358.57	95.00	7368.08	1173.06	1173.02	-11.46	1173.08	359.44	1.25	SlimPulse
102	8438.00	88.93	357.81	95.00	7370.10	1268.01	1267.95	-14.46	1268.03	359.35	0.86	SlimPulse
103	8533.00	89.42	358.19	95.00	7371.47	1362.95	1362.88	-17.77	1363	359.25	0.65	SlimPulse
104	8627.00	90.07	359.18	94.00	7371.95	1456.93	1456.86	-19.93	1456.99	359.22	1.22	SlimPulse
105	8722.00	90.07	359.43	95.00	7371.90	1551.85	1551.99	-21.08	1551.99	359.22	0.27	SlimPulse
106	8816.00	90.10	358.55	94.00	7371.76	1605.92	1605.83	-22.74	1605.99	359.21	0.93	SlimPulse
107	8910.00	90.31	357.87	94.00	7371.56	1739.89	1739.79	-25.67	1739.98	359.15	0.73	SlimPulse
108	9004.00	90.31	359.47	94.00	7371.19	1833.76	1833.76	-27.85	1833.97	359.13	1.71	SlimPulse
109	9098.00	89.90	359.14	94.00	7371.02	1927.87	1927.75	-28.99	1927.97	359.14	0.56	SlimPulse
110	9193.00	89.90	359.17	95.00	7371.19	2022.86	2022.74	-30.40	2022.97	359.14	0.03	SlimPulse
111	9287.00	90.21	0.14	94.00	7371.11	2116.86	2116.74	-30.96	2116.96	359.16	1.09	SlimPulse
112	9381.00	89.97	0.42	94.00	7370.97	2210.86	2210.74	-30.50	2210.95	359.21	0.39	SlimPulse
113	9475.00	90.10	0.15	94.00	7370.91	2304.85	2304.73	-30.03	2304.93	359.25	0.33	SlimPulse
114	9570.00	90.00	0.03	95.00	7370.83	2399.85	2399.73	-29.88	2399.92	359.29	0.16	SlimPulse
115	9664.00	90.31	0.90	94.00	7370.57	2493.84	2493.73	-29.12	2493.9	359.33	0.98	SlimPulse
116	9759.00	90.38	2.60	95.00	7370.00	2588.78	2588.68	-26.21	2588.81	359.42	1.79	SlimPulse
117	9853.00	90.14	3.91	94.00	7369.58	2682.59	2682.53	-20.88	2682.61	359.55	1.42	SlimPulse
118	9948.00	90.34	4.44	95.00	7369.18	2777.31	2777.27	-13.96	2777.31	359.71	0.59	SlimPulse
119	10043.00	89.90	3.95	95.00	7368.98	2872.02	2872.02	-7.01	2872.03	359.86	0.70	SlimPulse
120	10138.00	89.73	3.22	95.00	7369.29	2966.80	2966.83	-1.07	2966.83	359.98	0.79	SlimPulse
121	10232.00	89.79	2.70	94.00	7369.69	3060.65	3060.70	3.78	3060.71	0.07	0.56	SlimPulse
122	10327.00	89.66	1.01	95.00	7370.14	3155.58	3155.65	6.85	3155.66	0.12	1.79	SlimPulse
123	10422.00	89.59	359.75	95.00	7370.77	3250.57	3250.64	7.48	3250.65	0.13	1.33	SlimPulse
124	10517.00	89.66	357.46	95.00	7371.40	3345.56	3345.63	5.87	3345.63	0.10	1.51	SlimPulse
125	10611.00	90.07	357.46	94.00	7371.62	3439.51	3439.56	2.40	3439.56	0.04	1.00	SlimPulse
126	10706.00	90.03	356.47	95.00	7371.54	3534.40	3534.43	-2.63	3534.43	359.96	1.04	SlimPulse
127	10800.00	89.93	355.83	94.00	7371.57	3628.21	3628.21	-8.94	3628.22	359.86	0.69	SlimPulse
128	10894.00	89.83	356.28	94.00	7371.76	3722.02	3721.99	-15.40	3722.02	359.76	0.49	SlimPulse
129	10988.00	90.69	356.27	94.00	7371.34	3815.85	3815.79	-21.50	3815.85	359.68	0.91	SlimPulse
130	11083.00	90.93	356.34	95.00	7370.00	3910.67	3910.58	-27.62	3910.68	359.60	0.26	SlimPulse
131	11177.00	91.03	357.06	94.00	7368.39	4004.52	4004.41	-33.03	4004.55	359.53	0.77	SlimPulse
132	11271.00	91.31	358.07	94.00	7366.47	4098.44	4098.31	-37.02	4098.47	359.48	1.11	SlimPulse
133	11365.00	91.37	358.62	94.00	7364.27	4192.38	4192.24	-39.73	4192.43	359.46	0.58	SlimPulse
134	11460.00	91.79	359.63	95.00	7361.65	4287.34	4287.19	-41.18	4287.39	359.45	1.15	SlimPulse
135	11555.00	91.96	0.02	95.00	7358.54	4382.29	4382.14	-41.47	4382.34	359.46	0.45	SlimPulse
136	11649.00	91.92	0.87	94.00	7355.35	4476.23	4476.08	-40.73	4476.27	359.48	0.90	SlimPulse
137	11744.00	91.82	1.19	95.00	7352.24	4571.15	4571.02	-39.02	4571.18	359.51	0.36	SlimPulse
138	11828.00	91.82	1.19	84.00	7349.57	4655.08	4654.96	-37.27	4655.11	359.54	0.01	PROJ

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



December 30, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

CLIENT: Cimarex Energy Co of Colorado
WELL: Taos Federal 5H
FIELD: Cotton Draw; BS
RIG: Cactus 116
COUNTY: Eddy
API NO: 30-015-41720
JOB NO: 14MLD0506

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>
De'Jon Douglas MWD	Taos Federal 5H Original Hole	6745.00 Ft to 11744.00 Ft	November 29, 2014 to December 7, 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 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519



Well Reference:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

I, De'Jon Douglas certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 29, 2014 through December 07, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 6745.00 feet to a depth of 11744.00 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 of Colorado for the Taos Federal 5H Well (Original Hole) API No. 30-015-41720 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 
De'Jon Douglas
MWD

Subscribed and Sworn to before me this 30 day of December (month) 2014 (yr)

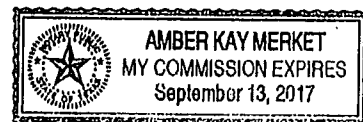
My Commission expires:

September 13, 2017

Amber Kay Merket
Notary Public

(signature)

Midland County, Texas
(County State)



SCHLUMBERGER
Survey Report

29-Dec-2014

Client..... Cimarex Energy Co of Colo
Field..... Cotton Draw; B5

Well..... Taos Federal 5H
API number..... 30-015-41720
Engineer..... D. Douglas

Spud date..... 20-Nov-14
Last survey date..... 7-Dec-14
Total accepted surveys..... 66
MD of first survey..... 6745.00 ft
MD of last survey..... 11744.00 ft

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

Latitude..... 32° 10' 1.786" N
Longitude..... 104° 14' 10.735" 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..... 3355.00
KB above permanent..... 3373.00
DF above permanent..... 3373.00

----- Vertical section origin-----
Latitude (+N/-)..... 0.00 ft
Departure (+E/-)..... 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X..... 571335.70 ft
Y..... 424562.40 ft

Azimuth from Vsect Origin to target: 359.73 degrees

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

-----Run1----- Calculation Date: 29-Nov-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 1-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 2-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run4----- Calculation Date: 4-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2014

-----Run1-----
Magnetic dec (+E/-)..... 7.717 degrees
Grid Conv (+E/-)..... 0.047 degrees
Total Azim Corr (+E/-)..... 7.67 degrees

-----Run2-----
Magnetic dec (+E/-)..... 7.717 degrees
Grid Conv (+E/-)..... 0.047 degrees
Total Azim Corr (+E/-)..... 7.67 degrees

-----Run3-----
Magnetic dec (+E/-)..... 7.717 degrees
Grid Conv (+E/-)..... 0.047 degrees
Total Azim Corr (+E/-)..... 7.67 degrees

-----Run4-----

Magnetic dec (+E/W-).....: 7.717 degrees

Grid Conv (+E/W-).....: 0.047 degrees

Total Azim Corr (+E/W-)...: 7.67 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	139.00	1.19	241.08	139.00	138.99	-0.69	-0.70	-1.26	1.44	241.08	0.86	Other	0
3	205.00	1.10	231.26	66.00	204.98	-1.41	-1.43	-2.36	2.76	238.83	0.33	Other	0
4	265.00	1.33	234.70	60.00	264.96	-2.17	-2.19	-3.37	4.02	237.04	0.40	Other	0
5	315.00	1.50	237.91	50.00	314.95	-2.85	-2.87	-4.40	5.26	236.89	0.38	Other	0
6	414.00	1.59	234.47	99.00	413.91	-4.33	-4.36	-6.62	7.92	236.64	0.13	Other	0
7	507.00	1.81	241.61	93.00	506.87	-5.76	-5.81	-8.96	10.68	237.06	0.33	Other	0
8	567.00	1.90	238.31	60.00	566.84	-6.73	-6.78	-10.64	12.62	237.50	0.23	Other	0
9	630.00	1.90	235.18	63.00	629.81	-7.87	-7.92	-12.39	14.7	237.39	0.16	Other	0
10	725.00	2.21	230.60	95.00	724.74	-9.92	-9.99	-15.09	18.1	236.51	0.37	Other	0
11	819.00	2.30	232.27	94.00	818.67	-12.21	-12.29	-17.99	21.79	235.65	0.12	Other	0
12	913.00	2.12	235.40	94.00	912.60	-14.33	-14.43	-20.91	25.41	235.39	0.23	Other	0
13	1002.00	1.90	237.60	89.00	1001.55	-16.05	-16.16	-23.51	28.53	235.50	0.26	Other	0
14	1091.00	1.72	242.10	89.00	1090.50	-17.45	-17.57	-25.94	31.33	235.88	0.26	Other	0
15	1183.00	1.41	258.36	92.00	1182.47	-18.31	-18.45	-28.27	33.75	236.87	0.59	Other	0
16	1271.00	1.02	268.67	88.00	1270.45	-18.54	-18.68	-30.11	35.44	238.18	0.51	Other	0
17	1369.00	0.62	98.92	98.00	1368.44	-18.64	-18.79	-30.46	35.79	238.33	1.67	Other	0
18	1464.00	2.03	94.69	95.00	1463.42	-18.87	-19.00	-28.27	34.07	236.09	1.49	Other	0
19	1560.00	1.10	79.27	96.00	1559.38	-18.85	-18.97	-25.67	31.92	233.54	1.05	Other	0
20	1652.00	1.90	81.08	92.00	1651.35	-18.46	-18.57	-23.30	29.79	231.44	0.87	Other	0
21	1746.00	3.40	86.28	94.00	1745.24	-18.06	-18.15	-18.98	26.26	226.28	1.61	Other	0
22	1842.00	3.14	92.80	96.00	1841.09	-18.03	-18.09	-13.51	22.58	216.75	-0.47	Other	0
23	1934.00	1.59	97.43	92.00	1933.01	-18.33	-18.38	-9.73	20.8	207.89	1.70	Other	0
24	2032.00	1.19	100.60	98.00	2030.98	-18.71	-18.74	-7.38	20.14	201.49	0.42	Other	0
25	2222.00	1.02	92.31	190.00	2220.94	-19.16	-19.17	-3.75	19.54	191.07	0.12	Other	0
26	2315.00	1.10	100.03	93.00	2313.93	-19.35	-19.36	-2.04	19.47	186.03	0.18	Other	0
27	2507.00	0.80	75.57	192.00	2505.90	-19.35	-19.35	1.07	19.38	176.84	0.26	Other	0
28	2602.00	1.10	82.75	95.00	2600.89	-19.08	-19.07	2.62	19.25	172.19	0.34	Other	0
29	2697.00	0.71	64.82	95.00	2695.88	-18.72	-18.70	4.05	19.14	167.77	0.50	Other	0
30	2791.00	0.40	71.65	94.00	2789.87	-18.38	-18.35	4.89	18.99	165.08	0.34	Other	0
31	2883.00	0.49	118.97	92.00	2881.87	-18.47	-18.44	5.54	19.26	163.28	0.40	Other	0
32	2979.00	0.40	123.78	96.00	2977.87	-18.86	-18.83	6.18	19.82	161.83	0.10	Other	0
33	3076.00	0.49	121.09	97.00	3074.86	-19.26	-19.23	6.81	20.4	160.49	0.10	Other	0
34	3169.00	0.22	90.51	93.00	3167.86	-19.47	-19.44	7.33	20.77	159.33	0.34	Other	0
35	3262.00	0.31	166.79	93.00	3260.86	-19.72	-19.68	7.57	21.09	158.96	0.36	Other	0
36	3355.00	0.31	162.87	93.00	3353.86	-20.20	-20.17	7.70	21.59	159.10	0.02	Other	0
37	3452.00	0.22	33.35	97.00	3450.86	-20.30	-20.26	7.88	21.74	158.75	0.50	Other	0
38	3548.00	0.31	224.16	96.00	3546.86	-20.33	-20.30	7.80	21.74	158.97	0.55	Other	0
39	3642.00	0.40	243.42	94.00	3640.86	-20.66	-20.63	7.33	21.89	160.43	0.16	Other	0
40	3737.00	0.09	234.70	95.00	3735.86	-20.85	-20.82	6.97	21.95	161.48	0.33	Other	0
41	3830.00	0.40	266.69	93.00	3828.86	-20.91	-20.88	6.59	21.89	162.48	0.35	Other	0
42	3924.00	0.62	255.23	94.00	3922.85	-21.05	-21.03	5.77	21.8	164.65	0.26	Other	0
43	4019.00	0.22	270.87	95.00	4017.85	-21.18	-21.16	5.09	21.76	166.47	0.43	Other	0
44	4113.00	0.31	213.15	94.00	4111.85	-21.39	-21.37	4.77	21.89	167.41	0.28	Other	0
45	4207.00	0.22	301.68	94.00	4205.85	-21.50	-21.48	4.48	21.95	168.22	0.40	Other	0
46	4301.00	0.22	268.89	94.00	4299.85	-21.41	-21.39	4.14	21.79	169.03	0.13	Other	0
47	4396.00	0.71	262.55	95.00	4394.84	-21.49	-21.47	3.38	21.74	171.06	0.52	Other	0
48	4490.00	0.62	231.96	94.00	4488.84	-21.87	-21.86	2.40	21.99	173.73	0.38	Other	0
49	4584.00	0.71	229.19	94.00	4582.83	-22.56	-22.55	1.56	22.61	176.04	0.10	Other	0
50	4679.00	0.80	229.58	95.00	4677.82	-23.37	-23.37	0.61	23.38	178.51	0.09	Other	0
51	4773.00	1.19	227.47	94.00	4771.81	-24.45	-24.45	-0.61	24.46	181.43	0.42	Other	0
52	4868.00	1.19	243.82	95.00	4866.79	-25.55	-25.56	-2.22	25.65	184.97	0.36	Other	0
53	4963.00	1.10	224.34	95.00	4961.77	-26.63	-26.64	-3.74	26.91	188.00	0.42	Other	0
54	5062.00	1.50	225.75	99.00	5060.74	-28.20	-28.23	-5.34	28.73	190.71	0.41	Other	0
55	5157.00	1.50	223.37	95.00	5155.71	-29.97	-30.00	-7.08	30.82	193.28	0.07	Other	0
56	5252.00	1.19	225.35	95.00	5250.68	-31.56	-31.60	-8.64	32.76	195.29	0.33	Other	0
57	5344.00	1.50	205.92	92.00	5342.66	-33.30	-33.35	-9.84	34.77	196.44	0.59	Other	0
58	5439.00	1.59	207.59	95.00	5437.63	-35.59	-35.64	-11.00	37.3	197.15	0.11	Other	0
59	5533.00	1.50	231.08	94.00	5531.59	-37.51	-37.57	-12.56	39.61	198.48	0.68	Other	0
60	5627.00	1.59	226.28	94.00	5625.56	-39.17	-39.24	-14.46	41.82	200.23	0.17	Other	0
61	5721.00	2.43	215.04	94.00	5719.50	-41.70	-41.77	-16.54	44.93	201.61	0.98	Other	0
62	5816.00	1.50	218.74	95.00	5814.44	-44.30	-44.39	-18.48	48.09	202.60	0.99	Other	0
63	5912.00	1.59	194.77	96.00	5910.41	-46.57	-46.66	-19.61	50.61	202.79	0.67	Other	0
64	6006.00	1.81	200.90	94.00	6004.37	-49.21	-49.31	-20.47	53.39	202.54	0.30	Other	0
65	6099.00	2.03	194.20	93.00	6097.32	-52.18	-52.28	-21.40	56.49	202.26	0.34	Other	0
66	6194.00	1.19	174.10	95.00	6192.28	-54.79	-54.89	-21.71	59.03	201.58	1.05	Other	0
67	6288.00	0.88	173.53	94.00	6286.26	-56.48	-56.58	-21.52	60.53	200.83	0.33	Other	0
68	6383.00	0.31	194.59	95.00	6381.26	-57.45	-57.55	-21.51	61.44	200.49	0.63	Other	0
69	6478.00	0.71	224.34	95.00	6476.25	-58.12	-58.22	-21.98	62.23	200.69	0.49	Other	0

70	6573.00	1.19	213.72	95.00	6571.24	-59.35	-59.46	-22.94	63.74	201.10	0.54	Other	0
71	6656.00	1.59	205.39	83.00	6654.22	-61.11	-61.22	-23.91	65.72	201.34	0.54	Other	0
72	6745.00	2.41	356.52	89.00	6743.19	-60.35	-60.47	-24.56	66.26	202.10	4.36	SlimPulse	0
73	6840.00	9.32	355.24	95.00	6837.64	-50.68	-50.80	-25.32	56.76	206.49	7.28	SlimPulse	0
74	6934.00	20.74	13.17	94.00	6928.31	-26.80	-26.91	-22.15	34.85	219.46	12.98	SlimPulse	0
75	6964.00	23.73	17.11	30.00	6956.08	-15.87	-15.96	-19.16	24.94	230.20	11.11	SlimPulse	0
76	7029.00	30.43	27.62	65.00	7013.96	11.20	11.17	-7.66	13.54	325.55	12.64	SlimPulse	0
77	7061.00	33.24	31.97	32.00	7041.14	25.79	25.79	0.74	25.8	1.65	11.32	SlimPulse	0
78	7158.00	37.22	32.69	97.00	7120.36	72.91	73.05	30.67	79.23	22.78	4.13	SlimPulse	0
79	7205.00	40.82	23.49	47.00	7156.90	98.93	99.14	44.49	108.66	24.17	14.50	SlimPulse	0
80	7240.00	44.07	16.15	35.00	7182.74	121.09	121.34	52.44	132.19	23.37	16.91	SlimPulse	0
81	7270.00	47.37	11.28	30.00	7203.69	141.93	142.20	57.50	153.38	22.02	15.99	SlimPulse	0
82	7300.00	50.72	6.55	30.00	7223.36	164.28	164.57	60.99	175.51	20.33	16.31	SlimPulse	0
83	7333.00	54.05	2.24	33.00	7243.50	190.32	190.62	62.97	200.75	18.28	14.46	SlimPulse	0
84	7364.00	56.99	1.30	31.00	7261.05	215.86	216.16	63.76	225.14	14.88	10.63	SlimPulse	0
85	7394.00	60.15	0.81	30.00	7276.69	241.44	241.75	64.23	250.14	14.88	10.63	SlimPulse	0
86	7428.00	63.01	359.58	34.00	7292.87	271.34	271.65	64.32	279.16	13.32	9.00	SlimPulse	0
87	7459.00	65.70	357.59	31.00	7306.29	299.28	299.58	63.62	306.26	11.99	10.40	SlimPulse	0
88	7490.00	68.04	355.03	31.00	7318.47	327.73	328.03	61.79	333.79	10.67	10.71	SlimPulse	0
89	7522.00	71.41	353.73	32.00	7329.55	357.61	357.89	58.84	362.7	9.34	11.20	SlimPulse	0
90	7554.00	76.14	352.91	32.00	7338.49	388.14	388.40	55.27	392.31	8.10	14.99	SlimPulse	0
91	7584.00	80.33	352.28	30.00	7344.61	417.27	417.52	51.48	420.68	7.03	14.10	SlimPulse	0
92	7618.00	84.38	352.79	34.00	7349.13	450.70	450.92	47.10	453.38	5.96	12.02	SlimPulse	0
93	7649.00	87.11	353.01	31.00	7351.43	481.39	481.60	43.28	483.54	5.14	8.82	SlimPulse	0
94	7679.00	87.49	353.82	30.00	7352.85	511.17	511.37	39.85	512.92	4.46	2.98	SlimPulse	0
95	7759.00	89.48	354.09	80.00	7354.96	590.74	590.89	31.43	591.73	3.04	2.52	SlimPulse	0
96	7871.00	88.69	354.81	112.00	7356.74	702.25	702.35	20.60	702.65	1.68	0.96	SlimPulse	0
97	7965.00	88.62	354.96	94.00	7358.94	795.88	795.95	4.08	796.04	0.88	0.17	SlimPulse	0
98	8060.00	88.59	355.21	95.00	7361.25	890.54	890.57	4.08	890.58	0.26	0.27	SlimPulse	0
99	8154.00	88.62	356.27	94.00	7363.54	984.29	984.28	-2.91	984.29	359.83	1.13	SlimPulse	0
100	8248.00	88.62	357.38	94.00	7365.80	1078.11	1078.11	-8.11	1078.11	359.57	1.18	SlimPulse	0
101	8343.00	88.62	358.57	95.00	7368.08	1173.06	1173.02	-11.46	1173.08	359.44	1.25	SlimPulse	0
102	8438.00	88.93	357.81	95.00	7370.10	1268.01	1267.95	-14.46	1268.03	359.35	0.86	SlimPulse	0
103	8533.00	89.42	358.19	95.00	7371.47	1362.95	1362.88	-17.77	1363	359.25	0.65	SlimPulse	0
104	8627.00	90.00	359.18	94.00	7371.95	1456.93	1456.86	-19.93	1456.99	359.22	1.22	SlimPulse	0
105	8722.00	90.07	359.43	95.00	7371.90	1551.93	1551.85	-21.08	1551.99	359.22	0.27	SlimPulse	0
106	8816.00	90.10	358.55	94.00	7371.76	1645.92	1645.83	-22.74	1645.98	359.21	0.93	SlimPulse	0
107	8910.00	90.14	357.87	94.00	7371.56	1739.89	1739.79	-25.67	1739.98	359.15	0.73	SlimPulse	0
108	9004.00	90.31	359.47	94.00	7371.19	1833.87	1833.76	-27.85	1833.97	359.13	1.71	SlimPulse	0
109	9098.00	89.90	359.14	94.00	7371.02	1927.75	1927.75	-28.99	1927.97	359.14	0.56	SlimPulse	0
110	9193.00	89.90	359.17	95.00	7371.19	2022.86	2022.86	-30.40	2022.97	359.14	0.03	SlimPulse	0
111	9287.00	89.97	0.14	94.00	7371.11	2116.86	2116.74	-30.96	2116.96	359.16	1.09	SlimPulse	0
112	9381.00	89.97	0.42	94.00	7370.97	2210.86	2210.74	-30.50	2210.95	359.21	0.99	SlimPulse	0
113	9475.00	90.10	0.15	94.00	7370.91	2304.85	2304.73	-30.03	2304.93	359.25	0.33	SlimPulse	0
114	9570.00	90.00	0.03	95.00	7370.83	2399.85	2399.73	-29.88	2399.92	359.29	0.16	SlimPulse	0
115	9664.00	90.31	0.90	94.00	7370.57	2493.84	2493.73	-29.12	2493.9	359.33	0.98	SlimPulse	0
116	9759.00	90.38	2.60	95.00	7370.00	2588.78	2588.68	-26.21	2588.81	359.42	1.79	SlimPulse	0
117	9853.00	90.34	3.91	94.00	7369.58	2682.59	2682.53	-20.88	2682.61	359.55	1.42	SlimPulse	0
118	9948.00	89.90	4.44	95.00	7369.18	2777.31	2777.27	-13.96	2777.31	359.71	0.59	SlimPulse	0
119	10043.00	89.90	3.95	95.00	7368.98	2872.02	2872.02	-7.01	2872.03	359.86	0.70	SlimPulse	0
120	10138.00	89.73	3.22	95.00	7369.29	2966.80	2966.83	-1.07	2966.83	359.98	0.79	SlimPulse	0
121	10232.00	89.79	2.70	94.00	7369.69	3060.65	3060.70	3.78	3060.71	0.07	0.56	SlimPulse	0
122	10327.00	89.66	1.01	95.00	7370.14	3155.58	3155.65	6.85	3155.66	0.12	1.79	SlimPulse	0
123	10422.00	89.59	359.75	95.00	7370.77	3250.57	3250.64	7.48	3250.65	0.13	1.33	SlimPulse	0
124	10517.00	89.66	358.31	95.00	7371.40	3345.56	3345.63	5.87	3345.63	0.10	1.51	SlimPulse	0
125	10611.00	90.07	357.46	94.00	7371.62	3439.51	3439.56	2.40	3439.56	0.04	1.00	SlimPulse	0
126	10706.00	90.03	356.47	95.00	7371.54	3534.40	3534.43	-2.63	3534.43	359.96	1.04	SlimPulse	0
127	10800.00	89.93	355.83	94.00	7371.57	3628.21	3628.21	-8.94	3628.22	359.86	0.69	SlimPulse	0
128	10894.00	89.63	356.27	94.00	7371.76	3722.02	3722.02	-15.40	3722.02	359.76	0.49	SlimPulse	0
129	10988.00	90.69	356.27	94.00	7371.34	3815.85	3815.79	-21.50	3815.85	359.68	0.91	SlimPulse	0
130	11083.00	90.93	356.34	95.00	7370.00	3910.67	3910.58	-27.62	3910.68	359.60	0.26	SlimPulse	0
131	11177.00	91.03	357.06	94.00	7368.39	4004.52	4004.41	-33.03	4004.55	359.53	0.77	SlimPulse	0
132	11271.00	91.31	358.07	94.00	7366.47	4098.44	4098.31	-37.02	4098.47	359.48	1.11	SlimPulse	0
133	11365.00	91.37	358.62	94.00	7364.27	4192.38	4192.24	-39.73	4192.43	359.46	0.58	SlimPulse	0
134	11460.00	91.79	359.63	95.00	7361.65	4287.34	4287.19	-41.18	4287.39	359.45	1.15	SlimPulse	0
135	11555.00	91.96	0.02	95.00	7358.54	4382.29	4382.14	-41.47	4382.34	359.46	0.45	SlimPulse	0
136	11649.00	91.92	0.87	94.00	7355.35	4476.23	4476.08	-40.73	4476.27	359.48	0.90	SlimPulse	0
137	11744.00	91.82	1.19	95.00	7352.24	4571.15	4571.02	-39.02	4571.18	359.51	0.36	SlimPulse	0
138	11828.00	91.82	1.19	84.00	7349.57	4655.08	4654.96	-37.27	4655.11	359.54	0.01	PROI	7

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



December 30, 2014

Cimarex
600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

CLIENT: Cimarex Energy Co of Colorado
WELL: Taos Federal 5H
FIELD: Cotton Draw; BS
RIG: Cactus 116
COUNTY: Eddy
API NO: 30-015-41720
JOB NO: 14MLD0506

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>
De'Jon Douglas MWD	Taos Federal 5H Original Hole	6745.00 Ft to 11744.00 Ft	November 29, 2014 to December 7, 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 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

PATHFINDER
A Schlumberger Company

Well Reference:

Sec 31, T24S, R27E Eddy NM
N 32.16716 W 104.23632

I, De'Jon Douglas certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of November 29, 2014 through December 07, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 6745.00 feet to a depth of 11744.00 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 of Colorado for the Taos Federal 5H Well (Original Hole) API No. 30-015-41720 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 
De'Jon Douglas
MWD

Subscribed and Sworn to before me this 30 day of December (month) 2014 (yr)

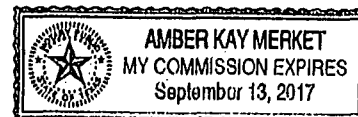
My Commission expires:

September 13, 2017

Amber Kay Merket
Notary Public

Midland County, Texas
(County State)

(signature)



SCHLUMBERGER

Survey Report

29-Dec-2014

Client..... Cimarex Energy Co of Colo
Field..... Cotton Draw; BS

Well..... Taos Federal 5H
API number..... 30-015-41720
Engineer..... D. Douglas

Spud date..... 20-Nov-14
Last survey date..... 7-Dec-14
Total accepted surveys..... 66
MD of first survey..... 6745.00 ft
MD of last survey..... 11744.00 ft

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

Latitude..... 32° 10' 1.786" N
Longitude..... 104° 14' 10.735" 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..... 3355.00
KB above permanent..... 3373.00
DF above permanent..... 3373.00

----- 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..... 571335.70 ft
Y..... 424562.40 ft

Azimuth from Vsect Origin to target: 359.73 degrees

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

-----Run1----- Calculation Date: 29-Nov-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 1-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run3----- Calculation Date: 2-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

-----Run4----- Calculation Date: 4-Dec-2014
Location G..... 998.63244 mgn Tolerance G..... 2.50 mgn
Location B..... 48278.75 nT Tolerance B..... 300.00 nT
Magnetic Dip: 59.95 degrees Tolerance Dip: 0.45 degrees

HDGM Model: 2014

-----Run1-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)..... 7.67 degrees

-----Run2-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)..... 7.67 degrees

-----Run3-----
Magnetic dec (+E/W-)..... 7.717 degrees
Grid Conv (+E/W-)..... 0.047 degrees
Total Azim Corr (+E/W-)..... 7.67 degrees

-----Run4-----

Magnetic dec (+E/W)-.....: 7.717 degrees
 Grid Conv (+E/W)-.....: 0.047 degrees
 Total Azim Corr (+E/W)-.: 7.67 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	139.00	1.19	241.08	139.00	138.99	-0.69	-0.70	-1.26	1.44	241.08	0.86	Other	0
3	205.00	1.10	231.26	66.00	204.98	-1.41	-1.43	-2.36	2.76	238.83	0.33	Other	0
4	265.00	1.33	234.70	60.00	264.96	-2.17	-2.19	-3.37	4.02	237.04	0.40	Other	0
5	315.00	1.50	237.91	50.00	314.95	-2.85	-2.87	-4.40	5.26	236.89	0.38	Other	0
6	414.00	1.59	234.47	99.00	413.91	-4.33	-4.36	-6.62	7.92	236.64	0.13	Other	0
7	507.00	1.81	241.61	93.00	506.87	-5.76	-5.81	-8.96	10.68	237.06	0.33	Other	0
8	567.00	1.90	238.31	60.00	566.84	-6.73	-6.78	-10.64	12.62	237.50	0.23	Other	0
9	630.00	1.90	235.18	63.00	629.81	-7.87	-7.92	-12.39	14.7	237.39	0.16	Other	0
10	725.00	2.21	230.60	95.00	724.74	-9.92	-9.99	-15.09	18.1	236.51	0.37	Other	0
11	819.00	2.30	232.27	94.00	818.67	-12.21	-12.29	-17.99	21.79	235.65	0.12	Other	0
12	913.00	2.12	235.40	94.00	912.60	-14.33	-14.43	-20.91	25.41	235.39	0.23	Other	0
13	1002.00	1.90	237.60	89.00	1001.55	-16.05	-16.16	-23.51	28.53	235.50	0.26	Other	0
14	1091.00	1.72	242.10	89.00	1090.50	-17.45	-17.57	-25.94	31.33	235.88	0.26	Other	0
15	1183.00	1.41	258.36	92.00	1182.47	-18.31	-18.45	-28.27	33.75	236.87	0.59	Other	0
16	1271.00	1.02	268.67	88.00	1270.45	-18.54	-18.68	-30.11	35.44	238.18	0.51	Other	0
17	1369.00	0.62	98.92	98.00	1368.44	-18.64	-18.79	-30.46	35.79	238.33	1.67	Other	0
18	1464.00	2.03	94.69	95.00	1463.42	-18.87	-19.00	-28.27	34.07	236.09	1.49	Other	0
19	1560.00	1.10	79.27	96.00	1559.38	-18.85	-18.97	-25.67	31.92	233.54	1.05	Other	0
20	1652.00	1.90	81.08	92.00	1651.35	-18.46	-18.57	-23.30	29.79	231.44	0.87	Other	0
21	1746.00	3.40	86.28	94.00	1745.24	-18.06	-18.15	-18.98	26.26	226.28	1.61	Other	0
22	1842.00	3.14	92.80	96.00	1841.09	-18.03	-18.09	-13.51	22.58	216.75	0.47	Other	0
23	1934.00	1.59	97.43	92.00	1933.01	-18.33	-18.38	-9.73	20.8	207.89	1.70	Other	0
24	2032.00	1.19	100.60	98.00	2030.98	-18.71	-18.74	-7.38	20.14	201.49	0.42	Other	0
25	2222.00	1.02	92.31	190.00	2220.94	-19.16	-19.17	-3.75	19.54	191.07	0.12	Other	0
26	2315.00	1.10	100.03	93.00	2313.93	-19.35	-19.36	-2.04	19.47	186.03	0.18	Other	0
27	2507.00	0.80	75.57	192.00	2505.90	-19.35	-19.35	1.07	19.38	176.84	0.26	Other	0
28	2602.00	1.10	82.75	95.00	2600.89	-19.08	-19.07	2.62	19.25	172.19	0.34	Other	0
29	2697.00	0.71	64.82	95.00	2695.88	-18.72	-18.70	4.05	19.14	167.77	0.50	Other	0
30	2791.00	0.40	71.65	94.00	2789.87	-18.38	-18.35	4.89	18.99	165.08	0.34	Other	0
31	2883.00	0.49	118.97	92.00	2881.87	-18.47	-18.44	5.54	19.26	163.28	0.40	Other	0
32	2979.00	0.40	123.78	96.00	2977.87	-18.86	-18.83	6.18	19.82	161.83	0.10	Other	0
33	3076.00	0.49	121.09	97.00	3074.86	-19.26	-19.23	6.81	20.4	160.49	0.10	Other	0
34	3169.00	0.22	90.51	93.00	3167.86	-19.47	-19.44	7.33	20.77	159.39	0.34	Other	0
35	3262.00	0.31	166.79	93.00	3260.86	-19.72	-19.68	7.57	21.09	158.96	0.36	Other	0
36	3355.00	0.31	162.87	93.00	3353.86	-20.20	-20.17	7.70	21.59	159.10	0.02	Other	0
37	3452.00	0.22	33.35	97.00	3450.86	-20.30	-20.26	7.88	21.74	158.75	0.50	Other	0
38	3548.00	0.31	224.16	96.00	3546.86	-20.33	-20.30	7.80	21.74	158.97	0.55	Other	0
39	3642.00	0.40	243.42	94.00	3640.86	-20.66	-20.63	7.33	21.89	160.43	0.16	Other	0
40	3737.00	0.09	234.70	95.00	3735.86	-20.85	-20.82	6.97	21.95	161.48	0.33	Other	0
41	3830.00	0.40	266.69	93.00	3828.86	-20.91	-20.88	6.59	21.89	162.48	0.35	Other	0
42	3924.00	0.62	255.23	94.00	3922.85	-21.05	-21.03	5.77	21.8	164.65	0.26	Other	0
43	4019.00	0.22	270.87	95.00	4017.85	-21.18	-21.16	5.09	21.76	166.47	0.43	Other	0
44	4113.00	0.31	213.15	94.00	4111.85	-21.39	-21.37	4.77	21.89	167.41	0.28	Other	0
45	4207.00	0.22	301.68	94.00	4205.85	-21.50	-21.48	4.48	21.95	168.22	0.40	Other	0
46	4301.00	0.22	268.89	94.00	4299.85	-21.41	-21.39	4.14	21.79	169.03	0.13	Other	0
47	4396.00	0.71	262.55	95.00	4394.84	-21.49	-21.47	3.38	21.74	171.06	0.52	Other	0
48	4490.00	0.62	231.96	94.00	4488.84	-21.87	-21.86	2.40	21.99	173.73	0.38	Other	0
49	4584.00	0.71	229.19	94.00	4582.83	-22.56	-22.55	1.56	22.61	176.04	0.10	Other	0
50	4679.00	0.80	229.58	95.00	4677.82	-23.37	-23.37	0.61	23.38	178.51	0.09	Other	0
51	4773.00	1.19	227.47	94.00	4771.81	-24.45	-24.45	-0.61	24.46	181.43	0.42	Other	0
52	4868.00	1.19	243.82	95.00	4866.79	-25.55	-25.56	-2.22	25.65	184.97	0.36	Other	0
53	4963.00	1.10	224.34	95.00	4961.77	-26.63	-26.64	-3.74	26.91	188.00	0.42	Other	0
54	5062.00	1.50	225.75	99.00	5060.74	-28.20	-28.23	-5.34	28.73	190.71	0.41	Other	0
55	5157.00	1.50	223.37	95.00	5155.71	-29.97	-30.00	-7.08	30.82	193.28	0.07	Other	0
56	5252.00	1.19	225.35	95.00	5250.68	-31.56	-31.60	-8.64	32.76	195.29	0.33	Other	0
57	5344.00	1.50	205.92	92.00	5342.66	-33.30	-33.35	-9.84	34.77	196.44	0.59	Other	0
58	5439.00	1.59	207.59	95.00	5437.63	-35.59	-35.64	-11.00	37.3	197.15	0.11	Other	0
59	5533.00	1.50	231.08	94.00	5531.59	-37.51	-37.57	-12.56	39.61	198.48	0.68	Other	0
60	5627.00	1.59	226.28	94.00	5625.56	-39.17	-39.24	-14.46	41.82	200.23	0.17	Other	0
61	5721.00	2.43	215.04	94.00	5719.50	-41.70	-41.77	-16.54	44.93	201.61	0.98	Other	0
62	5816.00	1.50	218.74	95.00	5814.44	-44.30	-44.39	-18.48	48.09	202.60	0.99	Other	0
63	5912.00	1.59	194.77	96.00	5910.41	-46.57	-46.66	-19.61	50.61	202.79	0.67	Other	0
64	6006.00	1.81	200.90	94.00	6004.37	-49.21	-49.31	-20.47	53.39	202.54	0.30	Other	0
65	6099.00	2.03	194.20	93.00	6097.32	-52.18	-52.28	-21.40	56.49	202.26	0.34	Other	0
66	6194.00	1.19	174.10	95.00	6192.28	-54.79	-54.89	-21.71	59.03	201.58	1.05	Other	0
67	6288.00	0.88	173.53	94.00	6286.26	-56.48	-56.58	-21.52	60.53	200.83	0.33	Other	0
68	6383.00	0.31	194.59	95.00	6381.26	-57.45	-57.55	-21.51	61.44	200.49	0.63	Other	0
69	6478.00	0.71	224.34	95.00	6476.25	-58.12	-58.22	-21.98	62.23	200.69	0.49	Other	0

70	6573.00	1.19	213.72	95.00	6571.24	-59.35	-59.46	-22.94	63.74	201.10	0.54	Other	0
71	6656.00	1.59	205.39	83.00	6654.22	-61.11	-61.22	-23.91	65.72	201.34	0.54	Other	0
72	6745.00	2.41	356.52	89.00	6743.19	-60.35	-60.47	-24.56	65.26	202.10	4.36	SlimPulse	0
73	6840.00	9.32	355.24	95.00	6837.64	-50.68	-50.80	-25.32	56.76	206.49	7.28	SlimPulse	0
74	6934.00	20.74	13.17	94.00	6928.31	-26.80	-26.91	-22.15	34.85	219.46	12.98	SlimPulse	0
75	6964.00	23.73	17.11	30.00	6956.08	-15.87	-15.96	-19.16	24.94	230.20	11.11	SlimPulse	0
76	7029.00	30.43	27.62	65.00	7013.96	11.20	11.17	-7.66	13.54	325.55	12.64	SlimPulse	0
77	7061.00	33.24	31.97	32.00	7041.14	25.79	25.79	0.74	25.8	1.65	11.32	SlimPulse	0
78	7158.00	37.22	32.69	97.00	7120.36	72.91	73.05	30.67	79.23	22.78	4.13	SlimPulse	0
79	7205.00	40.82	23.49	47.00	7156.90	98.93	99.14	44.49	108.66	24.17	14.50	SlimPulse	0
80	7240.00	44.07	16.15	35.00	7182.74	121.09	121.34	52.44	132.19	23.37	16.91	SlimPulse	0
81	7270.00	47.37	11.28	30.00	7203.69	141.93	142.20	57.50	133.38	22.02	15.99	SlimPulse	0
82	7300.00	50.72	6.55	30.00	7223.36	164.28	164.57	60.99	175.51	20.33	16.31	SlimPulse	0
83	7333.00	54.05	2.24	33.00	7243.50	190.32	190.62	62.97	200.75	18.28	14.46	SlimPulse	0
84	7364.00	56.99	1.30	31.00	7261.05	215.86	216.16	63.76	225.36	16.43	9.81	SlimPulse	0
85	7394.00	60.15	0.81	30.00	7276.69	241.44	241.75	64.32	250.14	14.88	10.63	SlimPulse	0
86	7428.00	63.01	359.58	34.00	7292.87	271.34	271.65	64.32	279.16	13.32	9.00	SlimPulse	0
87	7459.00	65.70	357.59	31.00	7306.29	299.28	299.58	63.62	306.26	11.99	10.40	SlimPulse	0
88	7490.00	68.04	355.03	31.00	7318.47	327.73	328.03	61.79	333.79	10.67	10.71	SlimPulse	0
89	7522.00	71.41	353.73	32.00	7329.55	357.61	357.89	58.84	362.7	9.34	11.20	SlimPulse	0
90	7554.00	76.14	352.91	32.00	7338.49	388.14	388.40	55.27	392.31	8.10	14.99	SlimPulse	0
91	7584.00	80.33	352.28	30.00	7344.61	417.27	417.52	51.48	420.68	7.03	14.10	SlimPulse	0
92	7618.00	84.38	352.79	34.00	7349.13	450.70	450.92	47.10	453.38	5.96	12.02	SlimPulse	0
93	7649.00	87.11	353.01	31.00	7351.43	481.39	481.60	43.28	483.54	5.14	8.82	SlimPulse	0
94	7679.00	87.49	353.82	30.00	7352.85	511.17	511.37	39.85	512.92	4.46	2.98	SlimPulse	0
95	7759.00	89.48	354.09	80.00	7354.96	590.74	590.89	31.43	591.73	3.04	2.52	SlimPulse	0
96	7781.00	88.69	354.81	112.00	7356.74	702.25	702.35	20.60	702.65	1.68	0.96	SlimPulse	0
97	7965.00	88.62	354.96	94.00	7358.94	795.88	795.95	12.22	796.04	0.88	0.17	SlimPulse	0
98	8050.00	88.59	355.21	95.00	7361.25	890.54	890.58	4.08	890.58	0.26	0.27	SlimPulse	0
99	8154.00	88.62	356.27	94.00	7363.54	984.29	984.28	-2.91	984.29	359.83	1.13	SlimPulse	0
100	8248.00	88.62	357.38	94.00	7365.80	1078.14	1078.11	-8.11	1078.14	359.57	1.18	SlimPulse	0
101	8343.00	88.62	358.57	95.00	7368.08	1173.06	1173.02	-11.46	1173.08	359.44	1.25	SlimPulse	0
102	8438.00	88.93	357.81	95.00	7370.10	1268.01	1267.95	-14.46	1268.03	359.35	0.86	SlimPulse	0
103	8533.00	89.42	358.19	95.00	7371.47	1362.95	1362.88	-17.77	1363	359.25	0.65	SlimPulse	0
104	8627.00	90.00	359.18	94.00	7371.95	1456.93	1456.86	-19.93	1456.99	359.22	1.22	SlimPulse	0
105	8722.00	90.07	359.43	95.00	7371.90	1551.93	1551.85	-21.08	1551.99	359.22	0.27	SlimPulse	0
106	8816.00	90.14	359.47	94.00	7371.76	1645.92	1645.83	-22.74	1645.99	359.21	0.93	SlimPulse	0
107	8910.00	90.31	359.87	94.00	7371.56	1739.89	1739.79	-25.67	1739.98	359.15	0.73	SlimPulse	0
108	9004.00	90.31	359.47	94.00	7371.19	1833.87	1833.76	-27.85	1833.97	359.13	1.71	SlimPulse	0
109	9098.00	89.90	359.14	94.00	7371.02	1927.87	1927.75	-28.99	1927.97	359.14	0.56	SlimPulse	0
110	9193.00	89.90	359.17	95.00	7371.19	2022.86	2022.74	-30.40	2022.97	359.14	0.03	SlimPulse	0
111	9287.00	90.21	0.14	94.00	7371.11	2116.86	2116.74	-30.96	2116.96	359.16	1.09	SlimPulse	0
112	9381.00	89.97	0.42	94.00	7370.97	2210.86	2210.74	-30.50	2210.95	359.21	0.39	SlimPulse	0
113	9475.00	90.10	0.15	94.00	7370.91	2304.85	2304.73	-30.03	2304.93	359.25	0.33	SlimPulse	0
114	9570.00	90.00	0.03	95.00	7370.83	2399.85	2399.73	-29.88	2399.92	359.29	0.16	SlimPulse	0
115	9664.00	90.31	0.90	94.00	7370.57	2493.84	2493.73	-29.12	2493.9	359.33	0.98	SlimPulse	0
116	9759.00	90.38	2.60	95.00	7370.00	2588.78	2588.68	-26.21	2588.81	359.42	1.79	SlimPulse	0
117	9853.00	90.14	3.91	94.00	7369.58	2682.59	2682.53	-20.88	2682.61	359.55	1.42	SlimPulse	0
118	9948.00	90.34	4.44	95.00	7369.18	2777.31	2777.27	-13.96	2777.31	359.71	0.59	SlimPulse	0
119	10043.00	89.90	3.95	95.00	7368.98	2872.02	2872.02	-7.01	2872.03	359.86	0.70	SlimPulse	0
120	10138.00	89.73	3.22	95.00	7369.29	2966.80	2966.83	-1.07	2966.83	359.98	0.79	SlimPulse	0
121	10232.00	89.79	2.70	94.00	7369.69	3060.65	3060.70	3.78	3060.71	0.07	0.56	SlimPulse	0
122	10327.00	89.66	1.01	95.00	7370.14	3155.58	3155.65	6.85	3155.66	0.12	1.79	SlimPulse	0
123	10422.00	89.59	359.75	95.00	7370.77	3250.57	3250.64	7.48	3250.65	0.13	1.33	SlimPulse	0
124	10517.00	89.66	358.31	95.00	7371.40	3345.56	3345.63	5.87	3345.63	0.10	1.51	SlimPulse	0
125	10611.00	90.03	356.47	95.00	7371.54	3439.51	3439.56	2.40	3439.56	0.04	1.00	SlimPulse	0
126	10706.00	90.03	356.47	95.00	7371.57	3534.40	3534.43	-2.63	3534.43	359.96	1.04	SlimPulse	0
127	10800.00	89.93	355.83	94.00	7371.57	3628.21	3628.21	-8.94	3628.22	359.86	0.69	SlimPulse	0
128	10894.00	89.83	356.28	94.00	7371.76	3722.02	3721.99	-15.40	3722.02	359.76	0.49	SlimPulse	0
129	10988.00	90.69	356.34	95.00	7371.34	3815.85	3815.79	-27.62	3815.85	359.68	0.91	SlimPulse	0
130	11083.00	90.93	356.34	95.00	7370.00	3910.67	3910.58	-27.62	3910.68	359.60	0.26	SlimPulse	0
131	11177.00	91.03	357.06	94.00	7368.39	4004.52	4004.41	-33.03	4004.55	359.53	0.77	SlimPulse	0
132	11271.00	91.31	358.07	94.00	7366.47	4098.44	4098.31	-37.02	4098.47	359.48	1.11	SlimPulse	0
133	11365.00	91.37	358.62	94.00	7364.27	4192.38	4192.24	-39.73	4192.43	359.46	0.58	SlimPulse	0
134	11460.00	91.79	359.63	95.00	7361.65	4287.34	4287.19	-41.18	4287.39	359.45	1.15	SlimPulse	0
135	11555.00	91.96	0.02	95.00	7358.54	4382.29	4382.14	-41.47	4382.34	359.46	0.45	SlimPulse	0
136	11649.00	91.92	0.87	94.00	7355.35	4476.23	4476.08	-40.73	4476.27	359.48	0.90	SlimPulse	0
137	11744.00	91.82	1.19	95.00	7352.24	4571.15	4571.02	-39.02	4571.18	359.51	0.36	SlimPulse	0
138	11828.00	91.82	1.19	84.00	7349.57	4655.08	4654.96	-37.27	4655.11	359.54	0.01	PROI	7