

Results of Directional Survey

API number:	30-025-41174		
OGRID:		Operator:	CIMAREX ENERGY CO.
		Property:	TRISTE DRAW 30 FEDERAL # 1H

surface	ULSTR:	M	30	T	23S	R	33E
				330	FSL	660	FWL

BH Loc	ULSTR:	D	30	T	23S	R	33E
15431	MD	11122.0	TVD	424	FNL	672	FWL
				4856	FSL		

Top Perf/OH	ULSTR:	M	30	T	23S	R	33E
10790	MD	10777.5	TVD	406	FSL	737	FWL

Bot Perf/OH	ULSTR:	D	30	T	23S	R	33E
15400	MD	11122.2	TVD	422	FNL	671	FWL
				4858	FSL		

	MD	N/S	E/W	VD
	10760	64.42	70.20	10750.47
TOP PERFS/OH	10790	75.78	76.65	10777.46
	10791	76.16	76.86	10778.36
	15362	4531.13	11.13	11122.36
BOT PERFS/OH	15400	4528.33	11.41	11122.18
	14431	4599.65	4.31	11126.84

NEXT TO LAST	15362	4531.13	11.13	11122.36
LAST READING	14431	4599.65	4.31	11126.84
TD	15431	4526.05	11.64	11122.03

Surface Location	330	FS	660	FW
Projected BHL	4856	FS	672	FW
Location of				
Top Perfs/OH	406	FS	737	FW
Bottom Perfs/OH	4858	FS	671	FW

SUMMARY of Subsurface Locations

Surface Location	M-30-23S-33E	330	FS	660	FW	Vert. Depth
Top Perfs/OH	M-30-23S-33E	406	FS	737	FW	10777.46
Bottom Perfs/OH	D-30-23S-33E	4858	FS	671	FW	11122.18
Projected TD	D-30-23S-33E	4856	FS	672	FW	11122.03

MAR 05 2014

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

October 18, 2013

HOBBS OCD

Cimarex

600 N MARIENFELD STREET SUITE 600

JAN 22 2014

MIDLAND, TX 79701

RECEIVED

Re:

S30-T23S-R33E 330 FSL 660 FWL
N 32.26943 W 103.61759

CLIENT: Cimarex Energy Co.
WELL: Triste Draw 30 Federal 1H
FIELD: Triple X; Bone Springs, West
RIG: Scandril Eagle
COUNTY: Lea
API NO: 30-025-41174
JOB NO: 13MLD0400

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, 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>
Jesse White MWD	Triste Draw 30 Federal 1H Original Hole	10539.00 Ft to 15362.00 Ft	September 12, 2013 to September 17, 2013	SlimPulse

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

Sincerely,

Jasem Alharer
Field Service Manager

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

HOBBS OCD

JAN 22 2014

RECEIVED

Schlumberger

Well Reference:

S-30-T23S-R33E 330 FSL 660 FWL

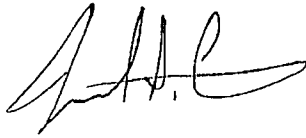
N 32.26943 W 103.61759

I, Jesse White certify that: I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of September 12, 2013 through September 17, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 10539.00 feet to a depth of 15362.00 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 Triste Draw 30 Federal 1H Well (Original Hole) API No. 30-025-41174 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

Jesse White

MWD



for

Jesse White

Subscribed and Sworn to before me this 15th day of October (month) 2013 (yr)

My Commission expires:

September 5, 2016

Michelle Ellwood

Notary Public

Midland, Texas

(County State)



SCHLUMBERGER

Survey Report

18-Oct-2013

Client.....: Cimarex Energy Co.
 Field.....: Triple X; Bone Spring, West

Well.....: Triste Draw 30 Federal 1H
 API number.....: 30-205-41174
 Engineer.....: Jesse White

County.....: Lea
 State.....: New Mexico
 Rig.....: Scandril Eagle

Spud date.....: 1-Sep-13
 Last survey date.....: 17-Sep-13
 Total accepted surveys...: 69
 MD of first survey.....: 10539.00 ft
 MD of last survey.....: 15362.00 ft

Latitude.....: 32° 16' 9.94" N
 Longitude.....: 103° 37' 3.331" 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.....: 3696.00
 KB above permanent.....: 3721.00
 DF above permanent.....: 3721.00

----- 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.....: 462488.60 ft
 Y.....: 762560.00 ft

Azimuth from Vsect Origin to target: 359.53 degrees

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

-----Run1----- Calculation Date: 12-Sep-2013
 Location G....: 998.83104 mgn Tolerance G....: 2.50 mgn
 Location B....: 48376.22 nT Tolerance B....: 300.00 nT
 Magnetic Dip: 60.1192 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 12-Sep-2013
 Location G....: 998.83104 mgn Tolerance G....: 2.50 mgn
 Location B....: 48376.22 nT Tolerance B....: 300.00 nT
 Magnetic Dip: 60.1192 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2012

-----Run1-----
 Magnetic dec (+E/W-).....: 7.44229 degrees
 Grid Conv (+E/W-).....: 0.38215 degrees
 Total Azim Corr (+E/W-)...: 7.06014 degrees

-----Run2-----
 Magnetic dec (+E/W-).....: 7.44229 degrees
 Grid Conv (+E/W-).....: 0.38215 degrees
 Total Azim Corr (+E/W-)...: 7.06014 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	153.00	0.31	225.07	153.00	153.00	-0.29	-0.29	-0.29	0.4139	225.07	0.20	Other	0
3	246.00	0.31	254.07	93.00	246.00	-0.53	-0.54	-0.71	0.8939	232.91	0.17	Other	0
4	333.00	0.00	285.49	87.00	333.00	-0.60	-0.60	-0.94	1.11662	237.28	0.36	Other	0
5	491.00	0.09	180.20	158.00	491.00	-0.72	-0.73	-0.94	1.18865	232.25	0.06	Other	0
6	646.00	0.31	189.56	155.00	646.00	-1.25	-1.26	-1.01	1.61708	218.65	0.14	Other	0
7	795.00	0.40	214.30	149.00	794.99	-2.08	-2.09	-1.37	2.49905	213.24	0.12	Other	0
8	925.00	0.48	239.09	130.00	924.99	-2.73	-2.74	-2.09	3.45158	217.33	0.16	Other	0
9	1020.00	0.48	247.70	95.00	1019.99	-3.08	-3.10	-2.80	4.17903	222.11	0.08	Other	0
10	1115.00	0.00	6.80	95.00	1114.99	-3.22	-3.25	-3.17	4.54119	224.28	0.51	Other	0
11	1211.00	0.40	244.27	96.00	1210.98	-3.37	-3.40	-3.47	4.85746	225.63	0.42	Other	0

12	1273.00	0.22	266.60	62.00	1272.98	-3.47	-3.50	-3.79	5.15451	227.27	0.34	Other	0
13	1319.00	0.31	197.30	46.00	1318.98	-3.59	-3.62	-3.91	5.33063	227.20	0.67	Other	0
14	1414.00	0.31	262.29	95.00	1413.98	-3.87	-3.90	-4.24	5.76374	227.40	0.35	Other	0
15	1510.00	0.22	288.17	96.00	1509.98	-3.84	-3.88	-4.68	6.07464	230.32	0.15	Other	0
16	1606.00	0.31	18.57	96.00	1605.98	-3.54	-3.58	-4.77	5.95905	233.13	0.40	Other	0
17	1701.00	0.22	354.70	95.00	1700.98	-3.11	-3.15	-4.70	5.65995	236.18	0.15	Other	0
18	1797.00	0.22	350.09	96.00	1796.98	-2.75	-2.78	-4.75	5.5072	239.62	0.02	Other	0
19	1892.00	0.31	28.50	95.00	1891.98	-2.34	-2.38	-4.66	5.23224	242.95	0.20	Other	0
20	1988.00	0.31	14.57	96.00	1987.98	-1.86	-1.90	-4.47	4.85758	246.98	0.08	Other	0
21	2083.00	0.40	15.10	95.00	2082.97	-1.30	-1.33	-4.32	4.52001	252.88	0.09	Other	0
22	2179.00	0.40	13.38	96.00	2178.97	-0.65	-0.68	-4.15	4.21029	260.69	0.01	Other	0
23	2275.00	0.40	14.48	96.00	2274.97	0.00	-0.03	-3.99	3.99357	269.56	0.01	Other	0
24	2370.00	0.40	1.69	95.00	2369.97	0.65	0.62	-3.90	3.94997	279.05	0.09	Other	0
25	2466.00	0.46	4.29	96.00	2465.97	1.37	1.34	-3.86	4.08819	289.15	0.07	Other	0
26	2561.00	0.48	8.20	95.00	2560.96	2.15	2.12	-3.78	4.32865	299.25	0.04	Other	0
27	2657.00	0.62	8.20	96.00	2656.96	3.06	3.03	-3.65	4.73833	309.71	0.15	Other	0
28	2753.00	0.70	1.30	96.00	2752.95	4.16	4.13	-3.56	5.4493	319.24	0.12	Other	0
29	2848.00	1.10	0.99	95.00	2847.94	5.65	5.62	-3.53	6.63561	327.87	0.42	Other	0
30	2943.00	1.19	14.97	95.00	2942.92	7.51	7.48	-3.26	8.16268	336.47	0.31	Other	0
31	3039.00	1.49	11.36	96.00	3038.89	9.69	9.67	-2.76	10.0556	344.10	0.32	Other	0
32	3134.00	1.58	11.67	95.00	3133.86	12.18	12.16	-2.25	12.37013	349.53	0.10	Other	0
33	3229.00	1.71	9.78	95.00	3228.82	14.86	14.84	-1.74	14.9456	353.31	0.15	Other	0
34	3325.00	1.80	14.09	96.00	3324.78	17.73	17.72	-1.13	17.75377	356.35	0.17	Other	0
35	3421.00	2.11	12.37	96.00	3420.72	20.91	20.91	-0.39	20.90988	358.94	0.33	Other	0
36	3516.00	2.29	15.80	95.00	3515.65	24.44	24.44	0.51	24.4461	1.19	0.23	Other	0
37	3612.00	2.29	10.48	96.00	3611.57	28.16	28.17	1.38	28.20596	2.80	0.22	Other	0
38	3707.00	2.29	8.99	95.00	3706.50	31.90	31.91	2.02	31.9771	3.62	0.06	Other	0
39	3803.00	2.20	9.08	96.00	3802.42	35.60	35.63	2.61	35.72266	4.19	0.09	Other	0
40	3898.00	1.89	8.59	95.00	3897.36	38.95	38.98	3.13	39.10239	4.59	0.33	Other	0
41	3994.00	2.11	7.28	96.00	3993.30	42.26	42.30	3.59	42.44739	4.85	0.23	Other	0
42	4090.00	2.20	2.57	96.00	4089.24	45.86	45.89	3.90	46.05423	4.86	0.21	Other	0
43	4185.00	2.29	0.60	95.00	4184.16	49.57	49.61	4.00	49.7694	4.61	0.12	Other	0
44	4281.00	2.11	18.09	96.00	4280.09	53.17	53.21	4.57	53.40201	4.91	0.72	Other	0
45	4376.00	1.89	50.78	95.00	4375.04	55.81	55.86	6.33	56.21628	6.46	1.21	Other	0
46	4472.00	2.11	65.58	96.00	4470.98	57.51	57.59	9.16	58.31499	9.04	0.58	Other	0
47	4568.00	2.42	74.78	96.00	4566.91	58.75	58.85	12.73	60.21378	12.20	0.50	Other	0
48	4663.00	3.21	92.57	95.00	4661.79	59.12	59.26	17.32	61.73969	16.29	1.23	Other	0
49	4759.00	3.52	106.28	96.00	4757.63	58.12	58.31	22.83	62.62492	21.38	0.90	Other	0
50	4854.00	3.69	108.79	95.00	4852.44	56.28	56.51	28.53	63.30366	26.78	0.24	Other	0
51	4949.00	3.69	107.47	95.00	4947.24	54.33	54.61	34.34	64.50732	32.16	0.09	Other	0
52	5056.00	3.60	104.97	107.00	5054.03	52.37	52.71	40.87	66.6947	37.79	0.17	Other	0
53	5151.00	3.21	104.79	95.00	5148.86	50.88	51.26	46.32	69.08627	42.10	0.41	Other	0
54	5245.00	3.38	104.79	94.00	5242.70	49.46	49.88	51.54	71.7261	45.94	0.18	Other	0
55	5340.00	1.19	84.80	95.00	5337.62	48.80	49.25	55.23	74.00466	48.28	2.42	Other	0
56	5435.00	1.01	69.77	95.00	5432.61	49.16	49.63	57.00	75.58173	48.95	0.36	Other	0
57	5529.00	0.88	67.57	94.00	5526.59	49.71	50.19	58.45	77.04197	49.34	0.14	Other	0
58	5624.00	0.79	76.09	95.00	5621.58	50.14	50.63	59.76	78.32147	49.73	0.16	Other	0
59	5719.00	0.70	78.16	95.00	5716.58	50.41	50.91	60.96	79.4206	50.14	0.10	Other	0
60	5813.00	0.79	84.97	94.00	5810.57	50.57	51.08	62.17	80.46191	50.59	0.13	Other	0
61	5908.00	0.79	80.09	95.00	5905.56	50.73	51.25	63.46	81.57537	51.08	0.07	Other	0
62	6002.00	0.79	75.48	94.00	5999.55	50.99	51.53	64.73	82.73424	51.48	0.07	Other	0
63	6096.00	1.01	304.96	94.00	6093.54	51.63	52.16	64.68	83.09238	51.11	1.74	Other	0
64	6191.00	1.01	63.57	95.00	6188.54	52.48	53.02	64.74	83.67937	50.69	1.83	Other	0
65	6286.00	0.88	50.87	95.00	6283.52	53.30	53.85	66.06	85.2253	50.81	0.26	Other	0
66	6381.00	0.88	49.99	95.00	6378.51	54.23	54.78	67.18	86.68427	50.81	0.01	Other	0
67	6475.00	0.88	43.09	94.00	6472.50	55.21	55.77	68.23	88.1214	50.74	0.11	Other	0
68	6570.00	1.01	43.09	95.00	6567.49	56.34	56.91	69.30	89.6745	50.60	0.14	Other	0
69	6664.00	0.88	39.40	94.00	6661.48	57.50	58.08	70.32	91.20427	50.45	0.15	Other	0
70	6759.00	0.88	44.77	95.00	6756.46	58.57	59.16	71.30	92.64645	50.32	0.09	Other	0
71	6854.00	0.88	41.77	95.00	6851.45	59.62	60.22	72.30	94.09414	50.21	0.05	Other	0
72	6948.00	0.88	39.80	94.00	6945.44	60.71	61.31	73.24	95.51842	50.07	0.03	Other	0
73	7043.00	1.10	38.17	95.00	7040.43	61.98	62.59	74.27	97.12907	49.88	0.23	Other	0
74	7138.00	1.01	39.66	95.00	7135.41	63.33	63.95	75.37	98.84654	49.69	0.10	Other	0
75	7232.00	1.01	47.18	94.00	7229.40	64.52	65.15	76.51	100.49019	49.58	0.14	Other	0
76	7327.00	1.01	49.20	95.00	7324.38	65.63	66.27	77.76	102.164	49.56	0.04	Other	0
77	7422.00	0.79	54.87	95.00	7419.37	66.54	67.19	78.92	103.65338	49.59	0.25	Other	0
78	7516.00	1.01	63.70	94.00	7513.36	67.27	67.93	80.20	105.10245	49.73	0.28	Other	0
79	7611.00	0.62	60.67	95.00	7608.35	67.89	68.56	81.40	106.42005	49.89	0.41	Other	0
80	7705.00	0.62	82.38	94.00	7702.34	68.19	68.87	82.34	107.3493	50.09	0.25	Other	0
81	7800.00	0.62	91.30	95.00	7797.34	68.24	68.93	83.37	108.17223	50.42	0.10	Other	0
82	7895.00	0.79	92.57	95.00	7892.33	68.19	68.89	84.54	109.0491	50.82	0.18	Other	0
83	7989.00	0.79	100.97	94.00	7986.32	68.03	68.74	85.82	109.95178	51.31	0.12	Other	0
84	8084.00	0.79	114.99	95.00	8081.31	67.62	68.33	87.06	110.67138	51.87	0.20	Other	0
85	8179.00	0.62	122.19	95.00	8176.31	67.06	67.78	88.08	111.14571	52.42	0.20	Other	0
86	8273.00	0.62	136.69	94.00	8270.30	66.41	67.14	88.86	111.3767	52.93	0.17	Other	0
87	8368.00	0.79	137.97	95.00	8365.29	65.54	66.28	89.65	111.49519	53.52	0.18	Other	0
88	8463.00	0.70	155.99	95.00	8460.29	64.52	65.27	90.33	111.43998	54.15	0.26	Other	0
89	8557.00	0.70	167.59	94.00	8554.28	63.43	64.18	90.69	111.0991	54.71	0.15	Other	0
90	8652.00	0.79	174.40	95.00	8649.27	62.21	62.96	90.87	110.55465	55.28	0.13	Other	0
91	8746.00	0.62	194.66	94.00	8743.26	61.08	61.82	90.81	109.85699	55.75	0.32	Other	0
92	8841.00	0.70	213.86	95.00	8838.26	60.10	60.85	90.36	108.93257	56.04	0.25	Other	0
93	8936.00	0.79	226.56	95.00	8933.25	59.18	59.91	89.56	107.74975	56.22	0.20	Other	0
94	9030.00	1.19	239.17	94.00	9027.24	58.24	58.97	88.25	106.13612	56.25	0.48	Other	0
95	9125.00	1.49	243.88	95.00	9122.21	57.21	57.92	86.29	103.92696	56.13	0.34	Other	0

96	9220.00	1.58	234.08	95.00	9217.18	55.91	56.61	84.12	101.39433	56.06	0.29	Other	0
97	9314.00	1.71	242.08	94.00	9311.14	54.52	55.19	81.83	98.70445	56.00	0.28	Other	0
98	9409.00	2.20	248.49	95.00	9406.08	53.21	53.86	78.88	95.51621	55.68	0.56	Other	0
99	9503.00	2.29	262.69	94.00	9500.01	52.34	52.96	75.34	92.09228	54.90	0.60	Other	0
100	9598.00	2.59	261.67	95.00	9594.92	51.82	52.40	71.34	88.51623	53.70	0.32	Other	0
101	9692.00	2.90	247.00	94.00	9688.82	50.62	51.17	67.05	84.34043	52.65	0.81	Other	0
102	9787.00	2.50	235.00	95.00	9783.71	48.52	49.04	63.14	79.9449	52.16	0.73	Other	0
103	9882.00	1.71	226.30	95.00	9878.65	46.37	46.87	60.42	76.46545	52.19	0.89	Other	0
104	9977.00	2.02	203.80	95.00	9973.60	43.88	44.36	58.71	73.58863	52.93	0.83	Other	0
105	10071.00	2.29	202.39	94.00	10067.53	40.64	41.11	57.33	70.54593	54.36	0.29	Other	0
106	10166.00	2.50	209.07	95.00	10162.45	37.09	37.54	55.60	67.08904	55.97	0.37	Other	0
107	10261.00	2.42	212.06	95.00	10257.36	33.59	34.03	53.53	63.432	57.55	0.16	Other	0
108	10355.00	1.80	234.69	94.00	10351.30	31.07	31.50	51.27	60.17329	58.44	1.09	Other	0
109	10450.00	1.41	228.19	95.00	10446.26	29.45	29.85	49.18	57.53509	58.74	0.45	Other	0
110	10539.00	0.54	219.25	89.00	10535.25	28.40	28.80	48.10	56.06152	59.09	0.99	SlimPulse	0
111	10570.00	1.77	47.60	31.00	10566.24	28.61	29.01	48.36	56.39365	59.04	7.47	SlimPulse	0
112	10602.00	5.23	36.84	32.00	10598.18	30.10	30.51	49.60	58.23442	58.40	10.95	SlimPulse	0
113	10633.00	9.46	31.89	31.00	10628.92	33.38	33.81	51.80	61.85227	56.87	13.78	SlimPulse	0
114	10665.00	13.06	28.76	32.00	10660.30	38.76	39.21	54.93	67.48517	54.48	11.40	SlimPulse	0
115	10696.00	16.33	30.26	31.00	10690.28	45.56	46.05	58.81	74.69119	51.94	10.64	SlimPulse	0
116	10728.00	19.41	32.77	32.00	10720.73	53.88	54.40	63.96	83.96539	49.61	9.89	SlimPulse	0
117	10760.00	23.88	31.24	32.00	10750.47	63.84	64.42	70.20	95.27437	47.46	14.11	SlimPulse	0
118	10791.00	27.80	28.15	31.00	10778.36	75.53	76.16	76.86	108.20863	45.26	13.36	SlimPulse	0
119	10823.00	32.04	25.51	32.00	10806.09	89.72	90.41	84.04	123.44234	42.91	13.87	SlimPulse	0
120	10854.00	35.97	22.88	31.00	10831.79	105.48	106.23	91.13	139.96235	40.63	13.54	SlimPulse	0
121	10886.00	40.39	19.03	32.00	10856.94	123.89	124.70	98.17	158.70762	38.21	15.69	SlimPulse	0
122	10917.00	44.55	15.72	31.00	10879.80	143.81	144.68	104.40	178.40911	35.81	15.22	SlimPulse	0
123	10949.00	48.58	11.97	32.00	10901.80	166.32	167.23	109.93	200.12845	33.32	15.21	SlimPulse	0
124	10981.00	52.95	8.75	32.00	10922.04	190.66	191.61	114.37	223.14243	30.83	15.71	SlimPulse	0
125	11012.00	56.92	6.29	31.00	10939.85	215.78	216.76	117.67	246.63679	28.50	14.37	SlimPulse	0
126	11044.00	60.53	3.99	32.00	10956.46	243.00	243.99	120.11	271.95144	26.21	12.83	SlimPulse	0
127	11076.00	64.62	1.13	32.00	10971.20	271.35	272.35	121.37	298.17235	24.02	15.04	SlimPulse	0
128	11107.00	67.65	0.01	31.00	10983.74	299.69	300.70	121.64	324.3712	22.03	10.32	SlimPulse	0
129	11139.00	69.31	359.58	32.00	10995.48	329.46	330.47	121.54	352.10673	20.19	5.35	SlimPulse	0
130	11170.00	69.86	359.74	31.00	11006.29	358.51	359.52	121.37	379.45134	18.65	1.83	SlimPulse	0
131	11202.00	71.64	359.83	32.00	11016.84	388.72	389.73	121.25	408.15497	17.28	5.58	SlimPulse	0
132	11233.00	73.48	359.31	31.00	11026.13	418.29	419.30	121.03	436.4192	16.10	6.14	SlimPulse	0
133	11265.00	74.05	358.54	32.00	11035.08	449.02	450.02	120.45	465.86048	14.98	2.89	SlimPulse	0
134	11296.00	75.62	357.89	31.00	11043.19	478.93	479.92	119.52	494.58245	13.98	5.47	SlimPulse	0
135	11328.00	78.30	356.44	32.00	11050.41	510.07	511.06	117.98	524.4969	13.00	9.46	SlimPulse	0
136	11359.00	81.23	355.41	31.00	11055.91	540.51	541.48	115.81	553.72755	12.07	10.01	SlimPulse	0
137	11391.00	83.31	355.56	32.00	11060.22	572.14	573.09	113.31	584.18592	11.18	6.53	SlimPulse	0
138	11454.00	87.35	355.09	63.00	11065.34	634.75	635.66	108.20	644.80314	9.66	6.45	SlimPulse	0
139	11549.00	88.93	355.23	95.00	11068.42	729.42	730.27	100.19	737.11088	7.81	1.67	SlimPulse	0
140	11643.00	89.83	355.18	94.00	11069.44	823.15	823.93	92.34	829.09292	6.39	0.95	SlimPulse	0
141	11738.00	90.03	355.97	95.00	11069.55	917.92	918.65	85.01	922.57559	5.29	0.86	SlimPulse	0
142	11833.00	90.00	355.28	95.00	11069.52	1012.70	1013.37	77.76	1016.35206	4.39	0.73	SlimPulse	0
143	11928.00	90.45	354.97	95.00	11069.15	1107.42	1108.03	69.68	1110.21673	3.60	0.57	SlimPulse	0
144	12022.00	90.31	354.24	94.00	11068.53	1201.07	1201.61	60.84	1203.14772	2.90	0.79	SlimPulse	0
145	12117.00	89.90	353.64	95.00	11068.36	1295.62	1296.08	50.81	1297.07219	2.25	0.77	SlimPulse	0
146	12212.00	90.48	353.51	95.00	11068.05	1390.10	1390.48	40.18	1391.05957	1.66	0.63	SlimPulse	0
147	12307.00	90.17	354.90	95.00	11067.50	1484.69	1484.99	30.59	1485.30489	1.18	1.49	SlimPulse	0
148	12496.00	90.38	356.88	189.00	11066.60	1673.30	1673.49	17.05	1673.57913	0.58	1.06	SlimPulse	0
149	12591.00	90.45	358.44	95.00	11065.91	1768.24	1768.41	13.18	1768.45681	0.43	1.64	SlimPulse	0
150	12686.00	90.59	359.15	95.00	11065.05	1863.23	1863.38	11.18	1863.41581	0.34	0.77	SlimPulse	0
151	12780.00	90.45	359.94	94.00	11064.21	1957.22	1957.37	10.44	1957.40258	0.31	0.85	SlimPulse	0
152	12875.00	90.07	0.71	95.00	11063.78	2052.21	2052.37	10.97	2052.40074	0.31	0.90	SlimPulse	0
153	12970.00	89.86	2.34	95.00	11063.84	2147.15	2147.33	13.50	2147.37691	0.36	1.74	SlimPulse	0
154	13065.00	89.93	3.78	95.00	11064.01	2241.97	2242.20	18.57	2242.27303	0.47	1.52	SlimPulse	0
155	13159.00	90.21	4.53	94.00	11063.90	2335.66	2335.95	25.38	2336.08623	0.62	0.84	SlimPulse	0
156	13254.00	90.03	5.20	95.00	11063.70	2430.25	2430.61	33.44	2430.83561	0.79	0.73	SlimPulse	0
157	13349.00	89.83	5.52	95.00	11063.81	2524.76	2525.19	42.31	2525.54466	0.96	0.40	SlimPulse	0
158	13538.00	89.90	6.18	189.00	11064.26	2712.61	2713.20	61.57	2713.90332	1.30	0.35	SlimPulse	0
159	13633.00	90.21	5.48	95.00	11064.18	2807.03	2807.71	71.22	2808.61577	1.45	0.80	SlimPulse	0
160	13728.00	90.10	6.07	95.00	11063.92	2901.47	2902.23	80.77	2903.35374	1.59	0.63	SlimPulse	0
161	13822.00	89.83	4.94	94.00	11063.98	2994.96	2995.80	89.79	2997.1404	1.72	1.24	SlimPulse	0
162	13917.00	89.07	2.21	95.00	11064.89	3089.71	3090.60	95.71	3092.07801	1.77	2.98	SlimPulse	0
163	14012.00	87.66	0.73	95.00	11067.60	3184.61	3185.52	98.14	3187.03298	1.76	2.16	SlimPulse	0
164	14107.00	87.18	359.11	95.00	11071.88	3279.51	3280.42	98.00	3281.88533	1.71	1.77	SlimPulse	0
165	14201.00	87.80	358.14	94.00	11076.00	3373.40	3374.30	95.75	3375.66101	1.63	1.22	SlimPulse	0
166	14296.00	87.90	356.98	95.00	11079.56	3468.28	3469.15	91.71	3470.35993	1.51	1.23	SlimPulse	0
167	14391.00	88.28	356.37	95.00	11082.73	3563.11	3563.93	86.20	3564.97693	1.39	0.75	SlimPulse	0
168	14486.00	88.28	355.85	95.00	11085.58	3657.90	3658.67	79.76	3659.54226	1.25	0.54	SlimPulse	0
169	14581.00	88.49	356.04	95.00	11088.26	3752.67	3753.40	73.05	3754.10818	1.11	0.29	SlimPulse	0
170	14675.00	88.00	355.91	94.00	11091.14	3846.45	3847.12	66.45	3847.6953	0.99	0.53	SlimPulse	0
171	14770.00	87.76	355.83	95.00	11094.65	3941.19	3941.81	59.62	3942.26101	0.87	0.27	SlimPulse	0
172	14865.00	87.39	355.91	95.00	11098.67	4035.91	4036.48	52.78	4036.82345	0.75	0.41	SlimPulse	0
173	14958.00	87.80	355.51	93.00	11102.58	4128.62	4129.14	45.83	4129.39008	0.64	0.61	SlimPulse	0
174	15053.00	87.42	355.61	95.00	11106.54	4223.31	4223.77	38.49	4223.94375	0.52	0.42	SlimPulse	0
175	15148.00	87.52	354.99	95.00	11110.74	4317.96	4318.36	30.72	4318.46574	0.41	0.66	SlimPulse	0
176	15242.00	86.97	354.88	94.00	11115.25	4411.55	4411.88	22.44	4411.93751	0.29	0.60	SlimPulse	0
177	15336.00	86.39	354.40	94.00	11120.70	4505.05	4505.31	13.68	4505.33405	0.17	0.80	SlimPulse	0
178	15362.00	86.28	354.32	26.00	11122.36	4530.89	4531.13	11.13	4531.14815	0.14	0.52	SlimPulse	0
179	15431.00	86.28	354.32	69.00	11126.84	4599							

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

October 18, 2013

Cimarex

600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

HOBBS OCD

JAN 22 2014

RECEIVED

Re:

CLIENT: Cimarex Energy Co.
WELL: Triste Draw 30 Federal 1H
FIELD: Triple X; Bone Springs, West
RIG: Scandrill Eagle
COUNTY: Lea
API NO: 30-025-41174
JOB NO: 13MLD0400

S30-T23S-R33E 330 FSL 660 FWL
N 32.26943 W 103.61759

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, 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>
Jesse White MWD	Triste Draw 30 Federal 1H Original Hole	10539.00 Ft to 15362.00 Ft	September 12, 2013 to September 17, 2013	SlimPulse

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

Sincerely,

Jasem Alharer
Field Service Manager

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

HOBBS OCD

JAN 22 2014

Well Reference:

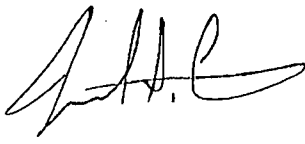
S-30-T23S-R33E 330 FSL 660 FWL

N 32.26943 W 103.61759

RECEIVED

I, Jesse White certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of September 12, 2013 through September 17, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 10539.00 feet to a depth of 15362.00 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 Triste Draw 30 Federal 1H Well (Original Hole) API No. 30-025-41174 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
Jesse White
MWD


for
Jesse White

Subscribed and Sworn to before me this 15th day of October (month) 2013 (yr)

My Commission expires:

September 5, 2016Michelle Ellwood

Notary Public

Midland, Texas

(County State)



SCHLUMBERGER

Survey Report

17-Oct-2013

Client.....: Cimarex Energy Co.
Field.....: Triple X; Bone Spring, West

Well.....: Triste Draw 30 Federal 1H
API number.....: 30-205-41174
Engineer.....: Jesse White

Spud date.....: 1-Sep-13
Last survey date.....: 17-Sep-13
Total accepted surveys.....: 69
MD of first survey.....: 10539.00 ft
MD of last survey.....: 15362.00 ft

County.....: Lea
State.....: New Mexico
Rig.....: Scandril Eagle

Latitude.....: 32° 16' 9.94" N
Longitude.....: 103° 37' 3.331" 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.....: 3696.00
KB above permanent.....: 3721.00
DF above permanent.....: 3721.00

---- 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.....: 462488.60 ft
Y.....: 762560.00 ft

Azimuth from Vsect Origin to target: 359.53 degrees

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

----Run1---- Calculation Date: 12-Sep-2013

Location G.....: 998.83104 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48376.22 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.1192 degrees Tolerance Dip: 0.45 degrees

----Run2---- Calculation Date: 12-Sep-2013

Location G.....: 998.83104 mgn Tolerance G.....: 2.50 mgn
Location B.....: 48376.22 nT Tolerance B.....: 300.00 nT
Magnetic Dip: 60.1192 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2012

----Run1----

Magnetic dec (+E/W-).....: 7.44229 degrees
Grid Conv (+E/W-).....: 0.38215 degrees
Total Azim Corr (+E/W-).....: 7.06014 degrees

----Run2----

Magnetic dec (+E/W-).....: 7.44229 degrees
Grid Conv (+E/W-).....: 0.38215 degrees
Total Azim Corr (+E/W-).....: 7.06014 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	153.00	0.31	225.07	153.00	153.00	-0.29	-0.29	-0.29	0.4139	225.07	0.20	Other	0
3	246.00	0.31	254.07	93.00	246.00	-0.53	-0.54	-0.71	0.8939	232.91	0.17	Other	0
4	333.00	0.00	285.49	87.00	333.00	-0.60	-0.60	-0.94	1.11662	237.28	0.36	Other	0
5	491.00	0.09	180.20	158.00	491.00	-0.72	-0.73	-0.94	1.18865	232.25	0.06	Other	0
6	646.00	0.31	189.56	155.00	646.00	-1.25	-1.26	-1.01	1.61708	218.65	0.14	Other	0
7	795.00	0.40	214.30	149.00	794.99	-2.08	-2.09	-1.37	2.49905	213.24	0.12	Other	0
8	925.00	0.48	239.09	130.00	924.99	-2.73	-2.74	-2.09	3.45158	217.33	0.16	Other	0
9	1020.00	0.48	247.70	95.00	1019.99	-3.08	-3.10	-2.80	4.17903	222.11	0.08	Other	0
10	1115.00	0.00	6.80	95.00	1114.99	-3.22	-3.25	-3.17	4.54119	224.28	0.51	Other	0
11	1211.00	0.40	244.27	96.00	1210.98	-3.37	-3.40	-3.47	4.85746	225.63	0.42	Other	0

12	1273.00	0.22	266.60	62.00	1272.98	-3.47	-3.50	-3.79	5.15451	227.27	0.34	Other	0
13	1319.00	0.31	197.30	46.00	1318.98	-3.59	-3.62	-3.91	5.33063	227.20	0.67	Other	0
14	1414.00	0.31	262.29	95.00	1413.98	-3.87	-3.90	-4.24	5.76374	227.40	0.35	Other	0
15	1510.00	0.22	288.17	96.00	1509.98	-3.84	-3.88	-4.68	6.07464	230.32	0.15	Other	0
16	1606.00	0.31	18.57	96.00	1605.98	-3.54	-3.58	-4.77	5.95905	233.13	0.40	Other	0
17	1701.00	0.22	354.70	95.00	1700.98	-3.11	-3.15	-4.70	5.65995	236.18	0.15	Other	0
18	1797.00	0.22	350.09	96.00	1796.98	-2.75	-2.78	-4.75	5.5072	239.62	0.02	Other	0
19	1892.00	0.31	28.50	95.00	1891.98	-2.34	-2.38	-4.66	5.23224	242.95	0.20	Other	0
20	1988.00	0.31	14.57	96.00	1987.98	-1.86	-1.90	-4.47	4.85758	246.98	0.08	Other	0
21	2083.00	0.40	15.10	95.00	2082.97	-1.30	-1.33	-4.32	4.52001	252.88	0.09	Other	0
22	2179.00	0.40	13.38	96.00	2178.97	-0.65	-0.68	-4.15	4.21029	260.69	0.01	Other	0
23	2275.00	0.40	14.48	96.00	2274.97	0.00	-0.03	-3.99	3.99357	269.56	0.01	Other	0
24	2370.00	0.40	1.69	95.00	2369.97	0.65	0.62	-3.90	3.94997	279.05	0.09	Other	0
25	2466.00	0.46	4.29	96.00	2465.97	1.37	1.34	-3.86	4.08819	289.15	0.07	Other	0
26	2561.00	0.48	8.20	95.00	2560.96	2.15	2.12	-3.78	4.32865	299.25	0.04	Other	0
27	2657.00	0.62	8.20	96.00	2656.96	3.06	3.03	-3.65	4.73833	309.71	0.15	Other	0
28	2753.00	0.70	1.30	96.00	2752.95	4.16	4.13	-3.56	5.4493	319.24	0.12	Other	0
29	2848.00	1.10	0.99	95.00	2847.94	5.65	5.62	-3.53	6.63561	327.87	0.42	Other	0
30	2943.00	1.19	14.97	95.00	2942.92	7.51	7.48	-3.26	8.16268	336.47	0.31	Other	0
31	3039.00	1.49	11.36	96.00	3038.89	9.69	9.67	-2.76	10.0556	344.10	0.32	Other	0
32	3134.00	1.58	11.67	95.00	3133.86	12.18	12.16	-2.25	12.37013	349.53	0.10	Other	0
33	3229.00	1.71	9.78	95.00	3228.82	14.86	14.84	-1.74	14.9456	353.31	0.15	Other	0
34	3325.00	1.80	14.09	96.00	3324.78	17.73	17.72	-1.13	17.75377	356.35	0.17	Other	0
35	3421.00	2.11	12.37	96.00	3420.72	20.91	20.91	-0.39	20.90988	358.94	0.33	Other	0
36	3516.00	2.29	15.80	95.00	3515.65	24.44	24.44	0.51	24.4461	1.19	0.23	Other	0
37	3612.00	2.29	10.48	96.00	3611.57	28.16	28.17	1.38	28.20596	2.80	0.22	Other	0
38	3707.00	2.29	8.99	95.00	3706.50	31.90	31.91	2.02	31.9771	3.62	0.06	Other	0
39	3803.00	2.20	9.08	96.00	3802.42	35.60	35.63	2.61	35.72266	4.19	0.09	Other	0
40	3898.00	1.89	8.59	95.00	3897.36	38.95	38.98	3.13	39.10239	4.59	0.33	Other	0
41	3994.00	2.11	7.28	96.00	3993.30	42.26	42.30	3.59	42.44739	4.85	0.23	Other	0
42	4090.00	2.20	2.57	96.00	4089.24	45.86	45.89	3.90	46.05423	4.86	0.21	Other	0
43	4185.00	2.29	0.60	95.00	4184.16	49.57	49.61	4.00	49.7694	4.61	0.12	Other	0
44	4281.00	2.11	18.09	96.00	4280.09	53.17	53.21	4.57	53.40201	4.91	0.72	Other	0
45	4376.00	1.89	50.78	95.00	4375.04	55.81	55.86	6.33	56.21628	6.46	1.21	Other	0
46	4472.00	2.11	65.58	96.00	4470.98	57.51	57.59	9.16	58.31499	9.04	0.58	Other	0
47	4568.00	2.42	74.78	96.00	4566.91	58.75	58.85	12.73	60.21378	12.20	0.50	Other	0
48	4663.00	3.21	92.57	95.00	4661.79	59.12	59.26	17.32	61.73969	16.29	1.23	Other	0
49	4759.00	3.52	106.28	96.00	4757.63	58.12	58.31	22.83	62.62492	21.38	0.90	Other	0
50	4854.00	3.69	108.79	95.00	4852.44	56.28	56.51	28.53	63.30366	26.78	0.24	Other	0
51	4949.00	3.69	107.47	95.00	4947.24	54.33	54.61	34.34	64.50732	32.16	0.09	Other	0
52	5056.00	3.60	104.97	107.00	5054.03	52.37	52.71	40.87	66.6947	37.79	0.17	Other	0
53	5151.00	3.21	104.79	95.00	5148.86	50.88	51.26	46.32	69.08627	42.10	0.41	Other	0
54	5245.00	3.38	104.79	94.00	5242.70	49.46	49.88	51.54	71.7261	45.94	0.18	Other	0
55	5340.00	1.19	84.80	95.00	5337.62	48.80	49.25	55.23	74.00466	48.28	2.42	Other	0
56	5435.00	1.01	69.77	95.00	5432.61	49.16	49.63	57.00	75.58173	48.95	0.36	Other	0
57	5529.00	0.88	67.57	94.00	5526.59	49.71	50.19	58.45	77.04197	49.34	0.14	Other	0
58	5624.00	0.79	76.09	95.00	5621.58	50.14	50.63	59.76	78.32147	49.73	0.16	Other	0
59	5719.00	0.70	78.16	95.00	5716.58	50.41	50.91	60.96	79.4206	50.14	0.10	Other	0
60	5813.00	0.79	84.97	94.00	5810.57	50.57	51.08	62.17	80.46191	50.59	0.13	Other	0
61	5908.00	0.79	80.09	95.00	5905.56	50.73	51.25	63.46	81.57537	51.08	0.07	Other	0
62	6002.00	0.79	75.48	94.00	5999.55	50.99	51.53	64.73	82.73424	51.48	0.07	Other	0
63	6096.00	1.01	304.96	94.00	6093.54	51.63	52.16	64.68	83.09238	51.11	1.74	Other	0
64	6191.00	1.01	63.57	95.00	6188.54	52.48	53.02	64.74	83.67937	50.69	1.83	Other	0
65	6286.00	0.88	50.87	95.00	6283.52	53.30	53.85	66.06	85.2253	50.81	0.26	Other	0
66	6381.00	0.88	49.99	95.00	6378.51	54.23	54.78	67.18	86.68427	50.81	0.01	Other	0
67	6475.00	0.88	43.09	94.00	6472.50	55.21	55.77	68.23	88.1214	50.74	0.11	Other	0
68	6570.00	1.01	43.09	95.00	6567.49	56.34	56.91	69.30	89.6745	50.60	0.14	Other	0
69	6664.00	0.88	39.40	94.00	6661.48	57.50	58.08	70.32	91.20427	50.45	0.15	Other	0
70	6759.00	0.88	44.77	95.00	6756.46	58.57	59.16	71.30	92.64645	50.32	0.09	Other	0
71	6854.00	0.88	41.77	95.00	6851.45	59.62	60.22	72.30	94.09414	50.21	0.05	Other	0
72	6948.00	0.88	39.80	94.00	6945.44	60.71	61.31	73.24	95.51842	50.07	0.03	Other	0
73	7043.00	1.10	38.17	95.00	7040.43	61.98	62.59	74.27	97.12907	49.88	0.23	Other	0
74	7138.00	1.01	39.66	95.00	7135.41	63.33	63.95	75.37	98.84654	49.69	0.10	Other	0
75	7232.00	1.01	47.18	94.00	7229.40	64.52	65.15	76.51	100.49019	49.58	0.14	Other	0
76	7327.00	1.01	49.20	95.00	7324.38	65.63	66.27	77.76	102.164	49.56	0.04	Other	0
77	7422.00	0.79	54.87	95.00	7419.37	66.54	67.19	78.92	103.65338	49.59	0.25	Other	0
78	7516.00	1.01	63.70	94.00	7513.36	67.27	67.93	80.20	105.10245	49.73	0.28	Other	0
79	7611.00	0.62	60.67	95.00	7608.35	67.89	68.56	81.40	106.42005	49.89	0.41	Other	0
80	7705.00	0.62	82.38	94.00	7702.34	68.19	68.87	82.34	107.3493	50.09	0.25	Other	0
81	7800.00	0.62	91.30	95.00	7797.34	68.24	68.93	83.37	108.17223	50.42	0.10	Other	0
82	7895.00	0.79	92.57	95.00	7892.33	68.19	68.89	84.54	109.0491	50.82	0.18	Other	0
83	7989.00	0.79	100.97	94.00	7986.32	68.03	68.74	85.82	109.95178	51.31	0.12	Other	0
84	8084.00	0.79	114.99	95.00	8081.31	67.62	68.33	87.06	110.67138	51.87	0.20	Other	0
85	8179.00	0.62	122.19	95.00	8176.31	67.06	67.78	88.08	111.14571	52.42	0.20	Other	0
86	8273.00	0.62	136.69	94.00	8270.30	66.41	67.14	88.86	111.3767	52.93	0.17	Other	0
87	8368.00	0.79	137.97	95.00	8365.29	65.54	66.28	89.65	111.49519	53.52	0.18	Other	0
88	8463.00	0.70	155.99	95.00	8460.29	64.52	65.27	90.33	111.43998	54.15	0.26	Other	0
89	8557.00	0.70	167.59	94.00	8554.28	63.43	64.18	90.69	111.0991	54.71	0.15	Other	0
90	8652.00	0.79	174.40	95.00	8649.27	62.21	62.96	90.87	110.55465	55.28	0.13	Other	0
91	8746.00	0.62	194.66	94.00	8743.26	61.08	61.82	90.81	109.85699	55.75	0.32	Other	0
92	8841.00	0.70	213.86	95.00	8838.26	60.10	60.85	90.36	108.93257	56.04	0.25	Other	0
93	8936.00	0.79	226.56	95.00	8933.25	59.18	59.91	89.56	107.74975	56.22	0.20	Other	0
94	9030.00	1.19	239.17	94.00	9027.24	58.24	58.97	88.25	106.13612	56.25	0.48	Other	0
95	9125.00	1.49	243.88	95.00	9122.21	57.21	57.92	86.29	103.92696	56.13	0.34	Other	0

96	9220.00	1.58	234.08	95.00	9217.18	55.91	56.61	84.12	101.39433	56.06	0.29	Other	0
97	9314.00	1.71	242.08	94.00	9311.14	54.52	55.19	81.83	98.70445	56.00	0.28	Other	0
98	9409.00	2.20	248.49	95.00	9406.08	53.21	53.86	78.88	95.51621	55.68	0.56	Other	0
99	9503.00	2.29	262.69	94.00	9500.01	52.34	52.96	75.34	92.09228	54.90	0.60	Other	0
100	9598.00	2.59	261.67	95.00	9594.92	51.82	52.40	71.34	88.51623	53.70	0.32	Other	0
101	9692.00	2.90	247.00	94.00	9688.82	50.62	51.17	67.05	84.34043	52.65	0.81	Other	0
102	9787.00	2.50	235.00	95.00	9783.71	48.52	49.04	63.14	79.9449	52.16	0.73	Other	0
103	9882.00	1.71	226.30	95.00	9878.65	46.37	46.87	60.42	76.46545	52.19	0.89	Other	0
104	9977.00	2.02	203.80	95.00	9973.60	43.88	44.36	58.71	73.58863	52.93	0.83	Other	0
105	10071.00	2.29	202.39	94.00	10067.53	40.64	41.11	57.33	70.54593	54.36	0.29	Other	0
106	10166.00	2.50	209.07	95.00	10162.45	37.09	37.54	55.60	67.08904	55.97	0.37	Other	0
107	10261.00	2.42	212.06	95.00	10257.36	33.59	34.03	53.53	63.432	57.55	0.16	Other	0
108	10355.00	1.80	234.69	94.00	10351.30	31.07	31.50	51.27	60.17329	58.44	1.09	Other	0
109	10450.00	1.41	228.19	95.00	10446.26	29.45	29.85	49.18	57.53509	58.74	0.45	Other	0
110	10539.00	0.54	219.25	89.00	10535.25	28.40	28.80	48.10	56.06152	59.09	0.99	SlimPulse	0
111	10570.00	1.77	47.60	31.00	10566.24	28.61	29.01	48.36	56.39365	59.04	7.47	SlimPulse	0
112	10602.00	5.23	36.84	32.00	10598.18	30.10	30.51	49.60	58.23442	58.40	10.95	SlimPulse	0
113	10633.00	9.46	31.89	31.00	10628.92	33.38	33.81	51.80	61.85227	56.87	13.78	SlimPulse	0
114	10665.00	13.06	28.76	32.00	10660.30	38.76	39.21	54.93	67.48517	54.48	11.40	SlimPulse	0
115	10696.00	16.33	30.26	31.00	10690.28	45.56	46.05	58.81	74.69119	51.94	10.64	SlimPulse	0
116	10728.00	19.41	32.77	32.00	10720.73	53.88	54.40	63.96	83.96539	49.61	9.89	SlimPulse	0
117	10760.00	23.88	31.24	32.00	10750.47	63.84	64.42	70.20	95.27437	47.46	14.11	SlimPulse	0
118	10791.00	27.80	28.15	31.00	10778.36	75.53	76.16	76.86	108.20863	45.26	13.36	SlimPulse	0
119	10823.00	32.04	25.51	32.00	10806.09	89.72	90.41	84.04	123.44234	42.91	13.87	SlimPulse	0
120	10854.00	35.97	22.88	31.00	10831.79	105.48	106.23	91.13	139.96235	40.63	13.54	SlimPulse	0
121	10886.00	40.39	19.03	32.00	10856.94	123.89	124.70	98.17	158.70762	38.21	15.69	SlimPulse	0
122	10917.00	44.55	15.72	31.00	10879.80	143.81	144.68	104.40	178.40911	35.81	15.22	SlimPulse	0
123	10949.00	48.58	11.97	32.00	10901.80	166.32	167.23	109.93	200.12845	33.32	15.21	SlimPulse	0
124	10981.00	52.95	8.75	32.00	10922.04	190.66	191.61	114.37	223.14243	30.83	15.71	SlimPulse	0
125	11012.00	56.92	6.29	31.00	10939.85	215.78	216.76	117.67	246.63679	28.50	14.37	SlimPulse	0
126	11044.00	60.53	3.99	32.00	10956.46	243.00	243.99	120.11	271.95144	26.21	12.83	SlimPulse	0
127	11076.00	64.62	1.13	32.00	10971.20	271.35	272.35	121.37	298.17235	24.02	15.04	SlimPulse	0
128	11107.00	67.65	0.01	31.00	10983.74	299.69	300.70	121.64	324.3712	22.03	10.32	SlimPulse	0
129	11139.00	69.31	359.58	32.00	10995.48	329.46	330.47	121.54	352.10673	20.19	5.35	SlimPulse	0
130	11170.00	69.86	359.74	31.00	11006.29	358.51	359.52	121.37	379.45134	18.65	1.83	SlimPulse	0
131	11202.00	71.64	359.83	32.00	11016.84	388.72	389.73	121.25	408.15497	17.28	5.58	SlimPulse	0
132	11233.00	73.48	359.31	31.00	11026.13	418.29	419.30	121.03	436.4192	16.10	6.14	SlimPulse	0
133	11265.00	74.05	358.54	32.00	11035.08	449.02	450.02	120.45	465.86048	14.98	2.89	SlimPulse	0
134	11296.00	75.62	357.89	31.00	11043.19	478.93	479.92	119.52	494.58245	13.98	5.47	SlimPulse	0
135	11328.00	78.30	356.44	32.00	11050.41	510.07	511.06	117.98	524.4969	13.00	9.46	SlimPulse	0
136	11359.00	81.23	355.41	31.00	11055.91	540.51	541.48	115.81	553.72755	12.07	10.01	SlimPulse	0
137	11391.00	83.31	355.56	32.00	11060.22	572.14	573.09	113.31	584.18592	11.18	6.53	SlimPulse	0
138	11454.00	87.35	355.09	63.00	11065.34	634.75	635.66	108.20	644.80314	9.66	6.45	SlimPulse	0
139	11549.00	88.93	355.23	95.00	11068.42	729.42	730.27	100.19	737.11088	7.81	1.67	SlimPulse	0
140	11643.00	89.83	355.18	94.00	11069.44	823.15	823.93	92.34	829.09292	6.39	0.95	SlimPulse	0
141	11738.00	90.03	355.97	95.00	11069.55	917.92	918.65	85.01	922.57559	5.29	0.86	SlimPulse	0
142	11833.00	90.00	355.28	95.00	11069.52	1012.70	1013.37	77.76	1016.35206	4.39	0.73	SlimPulse	0
143	11928.00	90.45	354.97	95.00	11069.15	1107.42	1108.03	69.68	1110.21673	3.60	0.57	SlimPulse	0
144	12022.00	90.31	354.24	94.00	11068.53	1201.07	1201.61	60.84	1203.14772	2.90	0.79	SlimPulse	0
145	12117.00	89.90	353.64	95.00	11068.36	1295.62	1296.08	50.81	1297.07219	2.25	0.77	SlimPulse	0
146	12212.00	90.48	353.51	95.00	11068.05	1390.10	1390.48	40.18	1391.05957	1.66	0.63	SlimPulse	0
147	12307.00	90.17	354.90	95.00	11067.50	1484.69	1484.99	30.59	1485.30489	1.18	1.49	SlimPulse	0
148	12496.00	90.38	356.88	189.00	11066.60	1673.30	1673.49	17.05	1673.57913	0.58	1.06	SlimPulse	0
149	12591.00	90.45	358.44	95.00	11065.91	1768.24	1768.41	13.18	1768.45681	0.43	1.64	SlimPulse	0
150	12686.00	90.59	359.15	95.00	11065.05	1863.23	1863.38	11.18	1863.41581	0.34	0.77	SlimPulse	0
151	12780.00	90.45	359.94	94.00	11064.21	1957.22	1957.37	10.44	1957.40258	0.31	0.85	SlimPulse	0
152	12875.00	90.07	0.71	95.00	11063.78	2052.21	2052.37	10.97	2052.40074	0.31	0.90	SlimPulse	0
153	12970.00	89.86	2.34	95.00	11063.84	2147.15	2147.33	13.50	2147.37691	0.36	1.74	SlimPulse	0
154	13065.00	89.93	3.78	95.00	11064.01	2241.97	2242.20	18.57	2242.27303	0.47	1.52	SlimPulse	0
155	13159.00	90.21	4.53	94.00	11063.90	2335.66	2335.95	25.38	2336.08623	0.62	0.84	SlimPulse	0
156	13254.00	90.03	5.20	95.00	11063.70	2430.25	2430.61	33.44	2430.83561	0.79	0.73	SlimPulse	0
157	13349.00	89.83	5.52	95.00	11063.81	2524.76	2525.19	42.31	2525.54466	0.96	0.40	SlimPulse	0
158	13538.00	89.90	6.18	189.00	11064.26	2712.61	2713.20	61.57	2713.90332	1.30	0.35	SlimPulse	0
159	13633.00	90.21	5.48	95.00	11064.18	2807.03	2807.71	71.22	2808.61577	1.45	0.80	SlimPulse	0
160	13728.00	90.10	6.07	95.00	11063.92	2901.47	2902.23	80.77	2903.35374	1.59	0.63	SlimPulse	0
161	13822.00	89.83	4.94	94.00	11063.98	2994.96	2995.80	89.79	2997.1404	1.72	1.24	SlimPulse	0
162	13917.00	89.07	2.21	95.00	11064.89	3089.71	3090.60	95.71	3092.07801	1.77	2.98	SlimPulse	0
163	14012.00	87.66	0.73	95.00	11067.60	3184.61	3185.52	98.14	3187.03298	1.76	2.16	SlimPulse	0
164	14107.00	87.18	359.11	95.00	11071.88	3279.51	3280.42	98.00	3281.88533	1.71	1.77	SlimPulse	0
165	14201.00	87.80	358.14	94.00	11076.00	3373.40	3374.30	95.75	3375.66101	1.63	1.22	SlimPulse	0
166	14296.00	87.90	356.98	95.00	11079.56	3468.28	3469.15	91.71	3470.35993	1.51	1.23	SlimPulse	0
167	14391.00	88.28	356.37	95.00	11082.73	3563.11	3563.93	86.20	3564.97693	1.39	0.75	SlimPulse	0
168	14486.00	88.28	355.85	95.00	11085.58	3657.90	3658.67	79.76	3659.54226	1.25	0.54	SlimPulse	0
169	14581.00	88.49	356.04	95.00	11088.26	3752.67	3753.40	73.05	3754.10818	1.11	0.29	SlimPulse	0
170	14675.00	88.00	355.91	94.00	11091.14	3846.45	3847.12	66.45	3847.6953	0.99	0.53	SlimPulse	0
171	14770.00	87.76	355.83	95.00	11094.65	3941.19	3941.81	59.62	3942.26101	0.87	0.27	SlimPulse	0
172	14865.00	87.39	355.91	95.00	11098.67	4035.91	4036.48	52.78	4036.82345	0.75	0.41	SlimPulse	0
173	14958.00	87.80	355.51	93.00	11102.58	4128.62	4129.14	45.83	4129.39008	0.64	0.61	SlimPulse	0
174	15053.00	87.42	355.61	95.00	11106.54	4223.31	4223.77	38.49	4223.94375	0.52	0.42	SlimPulse	0
175	15148.00	87.52	354.99	95.00	11110.74	4317.96	4318.36	30.72	4318.46574	0.41	0.66	SlimPulse	0
176	15242.00	86.97	354.88	94.00	11115.25	4411.55	4411.88	22.44	4411.93751	0.29	0.60	SlimPulse	0
177	15336.00	86.39	354.40	94.00	11120.70	4505.05	4505.31	13.68	4505.33405	0.17	0.80	SlimPulse	0
178	15362.00	86.28	354.32	26.00	11122.36	4530.89	4531.13	11.13	4531.14815	0.14	0.52	SlimPulse	0
179	15431.00	86.28	354.32	69.00	11126.84	4599							

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

October 18, 2013

Cimarex

600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701

Re:

CLIENT: Cimarex Energy Co.

WELL: Triste Draw 30 Federal 1H

FIELD: Triple X; Bone Springs, West

RIG: Scandrill Eagle

COUNTY: Lea

API NO: 30-025-41174

JOB NO: 13MLD0400

S30-T23S-R33E 330 FSL 660 FWL

N 32.26943 W 103.61759

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements , 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>
Jesse White MWD	Triste Draw 30 Federal 1H Original Hole	10539.00 Ft to 15362.00 Ft	September 12, 2013 to September 17, 2013	SlimPulse

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

Sincerely,

Jasem Alharer
Field Service Manager

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

Fax: (405) 682-3937

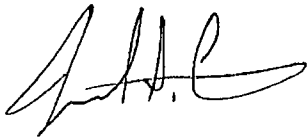
Well Reference:

S-30-T23S-R33E 330 FSL 660 FWL

N 32.26943 W 103.61759

I, Jesse White certify that: I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of September 12, 2013 through September 17, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 10539.00 feet to a depth of 15362.00 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 Triste Draw 30 Federal 1H Well (Original Hole) API No. 30-025-41174 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
Jesse White
MWD


for
Jesse White

Subscribed and Sworn to before me this 15th day of October (month) 2013 (yr)

My Commission expires:

September 5, 2016Michelle Ellwood

Notary Public

Midland, Texas

(County State)



Seq	MD	Incl	Azim	Course	TVD	V Sec	N-S	E-W	Closure	at Azi	DLS	Tool	Correction
1	0.00	0.00	0.00	-99.25	0.00	0.00	0.00	0.00	0.00	0	90.00	TIP	0
2	153.00	0.31	225.07	153.00	153.00	-0.29	-0.29	-0.29	-0.29	0.4139	225.07	Other	0
3	246.00	0.31	254.07	93.00	246.00	-0.53	-0.54	-0.71	0.8939	232.91	0.17	Other	0
4	333.00	0.00	285.49	87.00	333.00	-0.60	-0.60	-0.94	1.11662	237.28	0.36	Other	0
5	491.00	0.09	180.20	158.00	491.00	-0.72	-0.73	-0.94	1.18865	232.25	0.06	Other	0
6	646.00	0.11	189.56	155.00	646.00	-1.25	-1.26	-1.01	1.61708	218.65	0.14	Other	0
7	795.00	0.40	214.30	149.00	794.99	-2.08	-2.09	-1.37	2.49905	213.24	0.12	Other	0
8	925.00	0.48	239.09	130.00	924.99	-2.73	-2.74	-2.09	3.45158	217.33	0.16	Other	0
9	1020.00	0.48	247.70	95.00	1019.99	-3.08	-3.10	-2.80	4.17903	222.11	0.08	Other	0
10	1115.00	0.00	6.80	95.00	1114.99	-3.22	-3.25	-3.17	4.54119	224.28	0.51	Other	0
11	1211.00	0.40	244.27	96.00	1210.98	-3.37	-3.40	-3.47	4.85746	225.63	0.42	Other	0

Survey List												
Survey Correction Index Description												
0 = Uncorrected 1 = Sag Corrected 2 = DMAG Corrected 3 = Sag + DMAG Corrected												
Run1												
BGM Model: 2012												
Run2												
Calculation Date: 12-Sep-2013												
Location G...: 998.83104 mgn												
Location B...: 48376.22 nT												
Magnetic Dip: 60.1192 degrees												
Tolerance B...: 300.00 nT												
Tolerance Dip: 0.45 degrees												
Run1												
Calculation Date: 12-Sep-2013												
Location G...: 998.83104 mgn												
Location B...: 48376.22 nT												
Magnetic Dip: 60.1192 degrees												
Tolerance B...: 300.00 nT												
Tolerance Dip: 0.45 degrees												
MWD Survey Reference Criteria												

Azimuth from West Origin to target: 359.53 degrees												
NAD27 Texas State Plane, Central Zone, US Feet												
X...: 462488.60 ft												
Y...: 762560.00 ft												
Vertical section origin												
Latitude (+N/-): 0.00 ft												
Departure (+E/-): 0.00 ft												
Depth reference												
Permanent datum: MSL												
Driller's Depth												
GL above permanent: 3696.00												
KB above permanent: 3721.00												
DF above permanent: 3721.00												
Survey calculation methods												
Method for positions: Minimum curvature												
Method for DLS: Lubinski												
Client: Cimarex Energy Co.												
Field: Triple X; Bone Spring, West												
Well: Triple Draw 30 Federal 1H												
API number: 30-205-41174												
Engineer: Jesse White												
County: Lea												
State: New Mexico												
Rig: Scandriill Eagle												
Latitude: 32° 16' 9.94" N												
Longitude: 103° 37' 3.331" W												
Spud date: 1-Sep-13												
Last survey date: 17-Sep-13												
Total accepted surveys: 69												
MD of first survey: 10539.00 ft												
MD of last survey: 15362.00 ft												
Survey Report												
17-Oct-2013												

12	1273.00	0.22	266.60	62.00	1272.98	-3.47	-3.50	-3.79	5.15451	227.27	0.34	Other	0
13	1319.00	0.31	197.30	46.00	1318.98	-3.59	-3.62	-3.91	5.33063	227.20	0.67	Other	0
14	1414.00	0.31	262.29	95.00	1413.98	-3.87	-3.90	-4.24	5.76374	227.40	0.35	Other	0
15	1510.00	0.22	288.17	96.00	1509.98	-3.84	-3.88	-4.68	6.07464	230.32	0.15	Other	0
16	1606.00	0.31	18.57	96.00	1605.98	-3.54	-3.58	-4.77	5.95905	233.13	0.40	Other	0
17	1701.00	0.22	354.70	95.00	1700.98	-3.11	-3.15	-4.70	5.65995	236.18	0.15	Other	0
18	1797.00	0.22	350.09	96.00	1796.98	-2.75	-2.78	-4.75	5.5072	239.62	0.02	Other	0
19	1892.00	0.31	28.50	95.00	1891.98	-2.34	-2.38	-4.66	5.23224	242.95	0.20	Other	0
20	1988.00	0.31	14.57	96.00	1987.98	-1.86	-1.90	-4.47	4.85758	246.98	0.08	Other	0
21	2083.00	0.40	15.10	95.00	2082.97	-1.30	-1.33	-4.32	4.52001	252.88	0.09	Other	0
22	2179.00	0.40	13.38	96.00	2178.97	-0.65	-0.68	-4.15	4.21029	260.69	0.01	Other	0
23	2275.00	0.40	14.48	96.00	2274.97	0.00	-0.03	-3.99	3.99357	269.56	0.01	Other	0
24	2370.00	0.40	1.69	95.00	2369.97	0.65	0.62	-3.90	3.94997	279.05	0.09	Other	0
25	2466.00	0.46	4.29	96.00	2465.97	1.37	1.34	-3.86	4.08819	289.15	0.07	Other	0
26	2561.00	0.48	8.20	95.00	2560.96	2.15	2.12	-3.78	4.32865	299.25	0.04	Other	0
27	2657.00	0.62	8.20	96.00	2656.96	3.06	3.03	-3.65	4.73833	309.71	0.15	Other	0
28	2753.00	0.70	1.30	96.00	2752.95	4.16	4.13	-3.56	5.4493	319.24	0.12	Other	0
29	2848.00	1.10	0.99	95.00	2847.94	5.65	5.62	-3.53	6.63561	327.87	0.42	Other	0
30	2943.00	1.19	14.97	95.00	2942.92	7.51	7.48	-3.26	8.16268	336.47	0.31	Other	0
31	3039.00	1.49	11.36	96.00	3038.89	9.69	9.67	-2.76	10.0556	344.10	0.32	Other	0
32	3134.00	1.58	11.67	95.00	3133.86	12.18	12.16	-2.25	12.37013	349.53	0.10	Other	0
33	3229.00	1.71	9.78	95.00	3228.82	14.86	14.84	-1.74	14.9456	353.31	0.15	Other	0
34	3325.00	1.80	14.09	96.00	3324.78	17.73	17.72	-1.13	17.75377	356.35	0.17	Other	0
35	3421.00	2.11	12.37	96.00	3420.72	20.91	20.91	-0.39	20.90988	358.94	0.33	Other	0
36	3516.00	2.29	15.80	95.00	3515.65	24.44	24.44	0.51	24.4461	1.19	0.23	Other	0
37	3612.00	2.29	10.48	96.00	3611.57	28.16	28.17	1.38	28.20596	2.80	0.22	Other	0
38	3707.00	2.29	8.99	95.00	3706.50	31.90	31.91	2.02	31.9771	3.62	0.06	Other	0
39	3803.00	2.20	9.08	96.00	3802.42	35.60	35.63	2.61	35.72266	4.19	0.09	Other	0
40	3898.00	1.89	8.59	95.00	3897.36	38.95	38.98	3.13	39.10239	4.59	0.33	Other	0
41	3994.00	2.11	7.28	96.00	3993.30	42.26	42.30	3.59	42.44739	4.85	0.23	Other	0
42	4090.00	2.20	2.57	96.00	4089.24	45.86	45.89	3.90	46.05423	4.86	0.21	Other	0
43	4185.00	2.29	0.60	95.00	4184.16	49.57	49.61	4.00	49.7694	4.61	0.12	Other	0
44	4281.00	2.11	18.09	96.00	4280.09	53.17	53.21	4.57	53.40201	4.91	0.72	Other	0
45	4376.00	1.89	50.78	95.00	4375.04	55.81	55.86	6.33	56.21628	6.46	1.21	Other	0
46	4472.00	2.11	65.58	96.00	4470.98	57.51	57.59	9.16	58.31499	9.04	0.58	Other	0
47	4568.00	2.42	74.78	96.00	4566.91	58.75	58.85	12.73	60.21378	12.20	0.50	Other	0
48	4663.00	3.21	92.57	95.00	4661.79	59.12	59.26	17.32	61.73969	16.29	1.23	Other	0
49	4759.00	3.52	106.28	96.00	4757.63	58.12	58.31	22.83	62.62492	21.38	0.90	Other	0
50	4854.00	3.69	108.79	95.00	4852.44	56.28	56.51	28.53	63.30366	26.78	0.24	Other	0
51	4949.00	3.69	107.47	95.00	4947.24	54.33	54.61	34.34	64.50732	32.16	0.09	Other	0
52	5056.00	3.60	104.97	107.00	5054.03	52.37	52.71	40.87	66.6947	37.79	0.17	Other	0
53	5151.00	3.21	104.79	95.00	5148.86	50.88	51.26	46.32	69.08627	42.10	0.41	Other	0
54	5245.00	3.38	104.79	94.00	5242.70	49.46	49.88	51.54	71.7261	45.94	0.18	Other	0
55	5340.00	1.19	84.80	95.00	5337.62	48.80	49.25	55.23	74.00466	48.28	2.42	Other	0
56	5435.00	1.01	69.77	95.00	5432.61	49.16	49.63	57.00	75.58173	48.95	0.36	Other	0
57	5529.00	0.88	67.57	94.00	5526.59	49.71	50.19	58.45	77.04197	49.34	0.14	Other	0
58	5624.00	0.79	76.09	95.00	5621.58	50.14	50.63	59.76	78.32147	49.73	0.16	Other	0
59	5719.00	0.70	78.16	95.00	5716.58	50.41	50.91	60.96	79.4206	50.14	0.10	Other	0
60	5813.00	0.79	84.97	94.00	5810.57	50.57	51.08	62.17	80.46191	50.59	0.13	Other	0
61	5908.00	0.79	80.09	95.00	5905.56	50.73	51.25	63.46	81.57537	51.08	0.07	Other	0
62	6002.00	0.79	75.48	94.00	5999.55	50.99	51.53	64.73	82.73424	51.48	0.07	Other	0
63	6096.00	1.01	304.96	94.00	6093.54	51.63	52.16	64.68	83.09238	51.11	1.74	Other	0
64	6191.00	1.01	63.57	95.00	6188.54	52.48	53.02	64.74	83.67937	50.69	1.83	Other	0
65	6286.00	0.88	50.87	95.00	6283.52	53.30	53.85	66.06	85.2253	50.81	0.26	Other	0
66	6381.00	0.88	49.99	95.00	6378.51	54.23	54.78	67.18	86.68427	50.81	0.01	Other	0
67	6475.00	0.88	43.09	94.00	6472.50	55.21	55.77	68.23	88.1214	50.74	0.11	Other	0
68	6570.00	1.01	43.09	95.00	6567.49	56.34	56.91	69.30	89.6745	50.60	0.14	Other	0
69	6664.00	0.88	39.40	94.00	6661.48	57.50	58.08	70.32	91.20427	50.45	0.15	Other	0
70	6759.00	0.88	44.77	95.00	6756.46	58.57	59.16	71.30	92.64645	50.32	0.09	Other	0
71	6854.00	0.88	41.77	95.00	6851.45	59.62	60.22	72.30	94.09414	50.21	0.05	Other	0
72	6948.00	0.88	39.80	94.00	6945.44	60.71	61.31	73.24	95.51842	50.07	0.03	Other	0
73	7043.00	1.10	38.17	95.00	7040.43	61.98	62.59	74.27	97.12907	49.88	0.23	Other	0
74	7138.00	1.01	39.66	95.00	7135.41	63.33	63.95	75.37	98.84654	49.69	0.10	Other	0
75	7232.00	1.01	47.18	94.00	7229.40	64.52	65.15	76.51	100.49019	49.58	0.14	Other	0
76	7327.00	1.01	49.20	95.00	7324.38	65.63	66.27	77.76	102.164	49.56	0.04	Other	0
77	7422.00	0.79	54.87	95.00	7419.37	66.54	67.19	78.92	103.65338	49.59	0.25	Other	0
78	7516.00	1.01	63.70	94.00	7513.36	67.27	67.93	80.20	105.10245	49.73	0.28	Other	0
79	7611.00	0.62	60.67	95.00	7608.35	67.89	68.56	81.40	106.42005	49.89	0.41	Other	0
80	7705.00	0.62	82.38	94.00	7702.34	68.19	68.87	82.34	107.3493	50.09	0.25	Other	0
81	7800.00	0.62	91.30	95.00	7797.34	68.24	68.93	83.37	108.17223	50.42	0.10	Other	0
82	7895.00	0.79	92.57	95.00	7892.33	68.19	68.89	84.54	109.0491	50.82	0.18	Other	0
83	7989.00	0.79	100.97	94.00	7986.32	68.03	68.74	85.82	109.95178	51.31	0.12	Other	0
84	8084.00	0.79	114.99	95.00	8081.31	67.62	68.33	87.06	110.67138	51.87	0.20	Other	0
85	8179.00	0.62	122.19	95.00	8176.31	67.06	67.78	88.08	111.14571	52.42	0.20	Other	0
86	8273.00	0.62	136.69	94.00	8270.30	66.41	67.14	88.86	111.3767	52.93	0.17	Other	0
87	8368.00	0.79	137.97	95.00	8365.29	65.54	66.28	89.65	111.49519	53.52	0.18	Other	0
88	8463.00	0.70	155.99	95.00	8460.29	64.52	65.27	90.33	111.43998	54.15	0.26	Other	0
89	8557.00	0.70	167.59	94.00	8554.28	63.43	64.18	90.69	111.0991	54.71	0.15	Other	0
90	8652.00	0.79	174.40	95.00	8649.27	62.21	62.96	90.87	110.55465	55.28	0.13	Other	0
91	8746.00	0.62	194.66	94.00	8743.26	61.08	61.82	90.81	109.85699	55.75	0.32	Other	0
92	8841.00	0.70	213.86	95.00	8838.26	60.10	60.85	90.36	108.93257	56.04	0.25	Other	0
93	8936.00	0.79	226.56	95.00	8933.25	59.18	59.91	89.56	107.74975	56.22	0.20	Other	0
94	9030.00	1.19	239.17	94.00	9027.24	58.24	58.97	88.25	106.13612	56.25	0.48	Other	0
95	9125.00	1.49	243.88	95.00	9122.21	57.21	57.92	86.29	103.92696	56.13	0.34	Other	0

96	9220.00	1.58	234.08	95.00	9217.18	55.91	56.61	84.12	101.39433	56.06	0.29	Other	0
97	9314.00	1.71	242.08	94.00	9311.14	54.52	55.19	81.83	98.70445	56.00	0.28	Other	0
98	9409.00	2.20	248.49	95.00	9406.08	53.21	53.86	78.88	95.51621	55.68	0.56	Other	0
99	9503.00	2.29	262.69	94.00	9500.01	52.34	52.96	75.34	92.09228	54.90	0.60	Other	0
100	9598.00	2.59	261.67	95.00	9594.92	51.82	52.40	71.34	88.51623	53.70	0.32	Other	0
101	9692.00	2.90	247.00	94.00	9688.82	50.62	51.17	67.05	84.34043	52.65	0.81	Other	0
102	9787.00	2.50	235.00	95.00	9783.71	48.52	49.04	63.14	79.9449	52.16	0.73	Other	0
103	9882.00	1.71	226.30	95.00	9878.65	46.37	46.87	60.42	76.46545	52.19	0.89	Other	0
104	9977.00	2.02	203.80	95.00	9973.60	43.88	44.36	58.71	73.58863	52.93	0.83	Other	0
105	10071.00	2.29	202.39	94.00	10067.53	40.64	41.11	57.33	70.54593	54.36	0.29	Other	0
106	10166.00	2.50	209.07	95.00	10162.45	37.09	37.54	55.60	67.08904	55.97	0.37	Other	0
107	10261.00	2.42	212.06	95.00	10257.36	33.59	34.03	53.53	63.432	57.55	0.16	Other	0
108	10355.00	1.80	234.69	94.00	10351.30	31.07	31.50	51.27	60.17329	58.44	1.09	Other	0
109	10450.00	1.41	228.19	95.00	10446.26	29.45	29.85	49.18	57.53509	58.74	0.45	Other	0
110	10539.00	0.54	219.25	89.00	10535.25	28.40	28.80	48.10	56.06152	59.09	0.99	SlimPulse	0
111	10570.00	1.77	47.60	31.00	10566.24	28.61	29.01	48.36	56.39365	59.04	7.47	SlimPulse	0
112	10602.00	5.23	36.84	32.00	10598.18	30.10	30.51	49.60	58.23442	58.40	10.95	SlimPulse	0
113	10633.00	9.46	31.89	31.00	10628.92	33.38	33.81	51.80	61.85227	56.87	13.78	SlimPulse	0
114	10665.00	13.06	28.76	32.00	10660.30	38.76	39.21	54.93	67.48517	54.48	11.40	SlimPulse	0
115	10696.00	16.33	30.26	31.00	10690.28	45.56	46.05	58.81	74.69119	51.94	10.64	SlimPulse	0
116	10728.00	19.41	32.77	32.00	10720.73	53.88	54.40	63.96	83.96539	49.61	9.89	SlimPulse	0
117	10760.00	23.88	31.24	32.00	10750.47	63.84	64.42	70.20	95.27437	47.46	14.11	SlimPulse	0
118	10791.00	27.80	28.15	31.00	10778.36	75.53	76.16	76.86	108.20863	45.26	13.36	SlimPulse	0
119	10823.00	32.04	25.51	32.00	10806.09	89.72	90.41	84.04	123.44234	42.91	13.87	SlimPulse	0
120	10854.00	35.97	22.88	31.00	10831.79	105.48	106.23	91.13	139.96235	40.63	13.54	SlimPulse	0
121	10886.00	40.39	19.03	32.00	10856.94	123.89	124.70	98.17	158.70762	38.21	15.69	SlimPulse	0
122	10917.00	44.55	15.72	31.00	10879.80	143.81	144.68	104.40	178.40911	35.81	15.22	SlimPulse	0
123	10949.00	48.58	11.97	32.00	10901.80	166.32	167.23	109.93	200.12845	33.32	15.21	SlimPulse	0
124	10981.00	52.95	8.75	32.00	10922.04	190.66	191.61	114.37	223.14243	30.83	15.71	SlimPulse	0
125	11012.00	56.92	6.29	31.00	10939.85	215.78	216.76	117.67	246.63679	28.50	14.37	SlimPulse	0
126	11044.00	60.53	3.99	32.00	10956.46	243.00	243.99	120.11	271.95144	26.21	12.83	SlimPulse	0
127	11076.00	64.62	1.13	32.00	10971.20	271.35	272.35	121.37	298.17235	24.02	15.04	SlimPulse	0
128	11107.00	67.65	0.01	31.00	10983.74	299.69	300.70	121.64	324.3712	22.03	10.32	SlimPulse	0
129	11139.00	69.31	359.58	32.00	10995.48	329.46	330.47	121.54	352.10673	20.19	5.35	SlimPulse	0
130	11170.00	69.86	359.74	31.00	11006.29	358.51	359.52	121.37	379.45134	18.65	1.83	SlimPulse	0
131	11202.00	71.64	359.83	32.00	11016.84	388.72	389.73	121.25	408.15497	17.28	5.58	SlimPulse	0
132	11233.00	73.48	359.31	31.00	11026.13	418.29	419.30	121.03	436.4192	16.10	6.14	SlimPulse	0
133	11265.00	74.05	358.54	32.00	11035.08	449.02	450.02	120.45	465.86048	14.98	2.89	SlimPulse	0
134	11296.00	75.62	357.89	31.00	11043.19	478.93	479.92	119.52	494.58245	13.98	5.47	SlimPulse	0
135	11328.00	78.30	356.44	32.00	11050.41	510.07	511.06	117.98	524.4969	13.00	9.46	SlimPulse	0
136	11359.00	81.23	355.41	31.00	11055.91	540.51	541.48	115.81	553.72755	12.07	10.01	SlimPulse	0
137	11391.00	83.31	355.56	32.00	11060.22	572.14	573.09	113.31	584.18592	11.18	6.53	SlimPulse	0
138	11454.00	87.35	355.09	63.00	11065.34	634.75	635.66	108.20	644.80314	9.66	6.45	SlimPulse	0
139	11549.00	88.93	355.23	95.00	11068.42	729.42	730.27	100.19	737.11088	7.81	1.67	SlimPulse	0
140	11643.00	89.83	355.18	94.00	11069.44	823.15	823.93	92.34	829.09292	6.39	0.95	SlimPulse	0
141	11738.00	90.03	355.97	95.00	11069.55	917.92	918.65	85.01	922.57559	5.29	0.86	SlimPulse	0
142	11833.00	90.00	355.28	95.00	11069.52	1012.70	1013.37	77.76	1016.35206	4.39	0.73	SlimPulse	0
143	11928.00	90.45	354.97	95.00	11069.15	1107.42	1108.03	69.68	1110.21673	3.60	0.57	SlimPulse	0
144	12022.00	90.31	354.24	94.00	11068.53	1201.07	1201.61	60.84	1203.14772	2.90	0.79	SlimPulse	0
145	12117.00	89.90	353.64	95.00	11068.36	1295.62	1296.08	50.81	1297.07219	2.25	0.77	SlimPulse	0
146	12212.00	90.48	353.51	95.00	11068.05	1390.10	1390.48	40.18	1391.05957	1.66	0.63	SlimPulse	0
147	12307.00	90.17	354.90	95.00	11067.50	1484.69	1484.99	30.59	1485.30489	1.18	1.49	SlimPulse	0
148	12496.00	90.38	356.88	189.00	11066.60	1673.30	1673.49	17.05	1673.57913	0.58	1.06	SlimPulse	0
149	12591.00	90.45	358.44	95.00	11065.91	1768.24	1768.41	13.18	1768.45681	0.43	1.64	SlimPulse	0
150	12686.00	90.59	359.15	95.00	11065.05	1863.23	1863.38	11.18	1863.41581	0.34	0.77	SlimPulse	0
151	12780.00	90.45	359.94	94.00	11064.21	1957.22	1957.37	10.44	1957.40258	0.31	0.85	SlimPulse	0
152	12875.00	90.07	0.71	95.00	11063.78	2052.21	2052.37	10.97	2052.40074	0.31	0.90	SlimPulse	0
153	12970.00	89.86	2.34	95.00	11063.84	2147.15	2147.33	13.50	2147.37691	0.36	1.74	SlimPulse	0
154	13065.00	89.93	3.78	95.00	11064.01	2241.97	2242.20	18.57	2242.27303	0.47	1.52	SlimPulse	0
155	13159.00	90.21	4.53	94.00	11063.90	2335.66	2335.95	25.38	2336.08623	0.62	0.84	SlimPulse	0
156	13254.00	90.03	5.20	95.00	11063.70	2430.25	2430.61	33.44	2430.83561	0.79	0.73	SlimPulse	0
157	13349.00	89.83	5.52	95.00	11063.81	2524.76	2525.19	42.31	2525.54466	0.96	0.40	SlimPulse	0
158	13538.00	89.90	6.18	189.00	11064.26	2712.61	2713.20	61.57	2713.90332	1.30	0.35	SlimPulse	0
159	13633.00	90.21	5.48	95.00	11064.18	2807.03	2807.71	71.22	2808.61577	1.45	0.80	SlimPulse	0
160	13728.00	90.10	6.07	95.00	11063.92	2901.47	2902.23	80.77	2903.35374	1.59	0.63	SlimPulse	0
161	13822.00	89.83	4.94	94.00	11063.98	2994.96	2995.80	89.79	2997.1404	1.72	1.24	SlimPulse	0
162	13917.00	89.07	2.21	95.00	11064.89	3089.71	3090.60	95.71	3092.07801	1.77	2.98	SlimPulse	0
163	14012.00	87.66	0.73	95.00	11067.60	3184.61	3185.52	98.14	3187.03298	1.76	2.16	SlimPulse	0
164	14107.00	87.18	359.11	95.00	11071.88	3279.51	3280.42	98.00	3281.88533	1.71	1.77	SlimPulse	0
165	14201.00	87.80	358.14	94.00	11076.00	3373.40	3374.30	95.75	3375.66101	1.63	1.22	SlimPulse	0
166	14296.00	87.90	356.98	95.00	11079.56	3468.28	3469.15	91.71	3470.35993	1.51	1.23	SlimPulse	0
167	14391.00	88.28	356.37	95.00	11082.73	3563.11	3563.93	86.20	3564.97693	1.39	0.75	SlimPulse	0
168	14486.00	88.28	355.85	95.00	11085.58	3657.90	3658.67	79.76	3659.54226	1.25	0.54	SlimPulse	0
169	14581.00	88.49	356.04	95.00	11088.26	3752.67	3753.40	73.05	3754.10818	1.11	0.29	SlimPulse	0
170	14675.00	88.00	355.91	94.00	11091.14	3846.45	3847.12	66.45	3847.6953	0.99	0.53	SlimPulse	0
171	14770.00	87.76	355.83	95.00	11094.65	3941.19	3941.81	59.62	3942.26101	0.87	0.27	SlimPulse	0
172	14865.00	87.39	355.91	95.00	11098.67	4035.91	4036.48	52.78	4036.82345	0.75	0.41	SlimPulse	0
173	14958.00	87.80	355.51	93.00	11102.58	4128.62	4129.14	45.83	4129.39008	0.64	0.61	SlimPulse	0
174	15053.00	87.42	355.61	95.00	11106.54	4223.31	4223.77	38.49	4223.94375	0.52	0.42	SlimPulse	0
175	15148.00	87.52	354.99	95.00	11110.74	4317.96	4318.36	30.72	4318.46574	0.41	0.66	SlimPulse	0
176	15242.00	86.97	354.88	94.00	11115.25	4411.55	4411.88	22.44	4411.93751	0.29	0.60	SlimPulse	0
177	15336.00	86.39	354.40	94.00	11120.70	4505.05	4505.31	13.68	4505.33405	0.17	0.80	SlimPulse	0
178	15362.00	86.28	354.32	26.00	11122.36	4530.89	4531.13	11.13	4531.14815	0.14	0.52	SlimPulse	0
179	15431.00	86.28	354.32	69.00	11126.84	4599							

HOBBS OCD

JAN 22 2014

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41174	Pool Code 96674	Pool Name Triple X; Bone Spring, West
Property Code 39896	Property Name TRISTE DRAW 30 FEDERAL	Well Number 1H
GRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3696'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 4	30	23 S	33 E		330	SOUTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 1	30	23 S	33 E		467.424	NORTH	673.554	WEST	LEA
Dedicated Acres 151.68	Joint or Infill	Consolidation Code	Order No.	NSL Pending					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Hope Knauls</i> 1/10/13 Signature Date Hope Knauls Printed Name hknauls@cimarex.com Email Address
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. JAN 18 2014 Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 25888

MAR 05 2014