

Schlumberger

Reservoir Development

Drilling & Measurements (Anadrill)

4301 SW 44th St

Oklahoma City, Oklahoma 73119 USA

Phone: (405) 682-2284

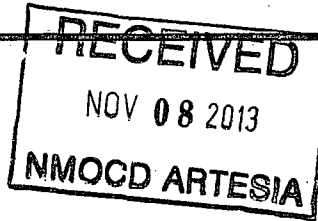
Fax: (405) 682-3937

August 2, 2013

Cimarex

600 N MARIENFELD STREET SUITE 600

MIDLAND, TX 79701



Re:

CLIENT: Cimarex Energy Co.
WELL: Scoter 6 Federal Com 2H
FIELD: Bone Spring Wildcat
RIG: Cactus 116
COUNTY: Eddy
API NO: 30-015-39788
JOB NO: 13MLD0247

P-6S-T25S-R27E 810 FSL 330 FEL
N 32.15411 W 104.22208

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>
Yahya Lazrak MWD	Scoter 6 Federal Com 2H Original Hole	7012.00 Ft to 11949.00 Ft	July 7, 2013 to July 12, 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

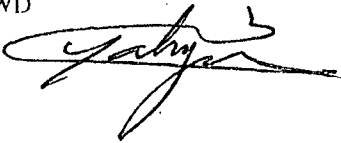
Drilling & Measurements (Anadrill)
4301 SW 44th St
Oklahoma City, Oklahoma 73119 USA
Phone: (405) 682-2284
Fax: (405) 682-3937

Well Reference:

P-6S-T25S-R27E 810 FSL 330 FEL
N 32.15411 W 104.22208

I, Yahya Lazrak certify that; I am employed by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation; that I did on the day(s) of July 07, 2013 through July 12, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 7012.00 feet to a depth of 11949.00 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 Scoter 6 Federal Com 2H Well (Original Hole) API No. 30-015-39788 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
Yahya Lazrak
MWD



Subscribed and Sworn to before me this 5th day of August (month) 2013 (yr)

My Commission expires:

September 5, 2016



Notary Public

Midland, Tx

(County State)



(signature)

Client: Cimarex Energy Co.
Field: Wildcat

Well: Scooter 6 Federal Com 2H
API number: 30-015-39788
Engineer: Yahya Lazrak

COUNTRY: Eddy
STATE: New Mexico
RIG: Cactus 116
Latitude: 32° 19' 14.795" N
Longitude: 104° 13' 19.485" W

Survey calculation methods:
Minimum curvature
Method for DLS: Lubinski

Depth reference
Permanent datum: MEAN SEA LEVEL
Depth reference: Driller's Depth

GL above permanent: 3345.00 ft
KB above permanent: Top Drive
DF above permanent: 3363.00 ft

Vertical section origin
Latitude (N/S): 0.00 ft
Departure (+E/W-): 0.00 ft

Grid Coordinates
NAD83, New Mexico State Plane, Eastern Zone, US Feet
X: 575767.200 ft US
Y: 419818.200 ft US

Azimuth from Vsect Origin to target: 357.384 degrees

MWD Survey Reference Criteria

Run1-----
Geomag Model: BGM 2012
Location G: 998.82 mgn
Location B: 48258.41 nT
Magnetic Dip: 59.91 degrees
Calculation Date: 06-Jul-2013
Tolerance G: 2.50 mgn
Tolerance B: 300.00 nT
Tolerance Dip: 0.45 degrees

Run2-----
Geomag Model: BGM 2012
Location G: 998.82 mgn
Location B: 48257.36 nT
Magnetic Dip: 59.91 degrees
Calculation Date: 09-Jul-2013
Tolerance G: 2.50 mgn
Tolerance B: 300.00 nT
Tolerance Dip: 0.45 degrees

MWD Survey Azimuth Correction

Run1-----
Magnetic dec (+E/W-): 7.7322 degrees
Grid convergence (+E/W-): 0.0592 degrees
Gtotal az corr (+E/W-): 7.6730 degrees

Run2-----
Magnetic dec (+E/W-): 7.7313 degrees
Grid convergence (+E/W-): 0.0592 degrees
Gtotal az corr (+E/W-): 7.6721 degrees

Survey Description Index Description
0 : Not Flagged Survey
7 : Projection to Bit

Seq	MD	Incl	Azlm	Course	TVD	V sec	N/S	E/W	Closure	at Azi	DLS	Tool	Correction
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(deg/100ft)		
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	129.20	0.41	284.59	129.20	0.14	0.12	-0.45	0.46	284.59	0.32		GyroTool	0
3	223.60	0.97	284.08	94.40	0.47	0.40	-1.55	1.6	284.34	0.59		GyroTool	0
4	317.90	1.69	278.61	94.30	0.97	0.80	-3.70	3.78	282.18	0.77		GyroTool	0
5	412.30	2.44	271.96	94.40	1.40	1.08	-7.08	7.16	278.63	0.83		GyroTool	0
6	506.60	2.21	265.49	94.30	1.50	1.00	-10.90	10.95	275.25	0.37		GyroTool	0
7	601.00	1.47	248.87	94.40	1.05	0.42	-13.85	13.85	271.74	0.96		GyroTool	0
8	695.30	1.00	224.37	94.30	0.11	-0.60	-15.55	15.56	267.78	0.74		GyroTool	0

9	789.70	0.76	197.65	94.40	789.45	-1.04	-1.79	-16.32	16.41	263.74	0.50	GyroTool	0
10	884.00	0.45	175.82	94.30	883.74	-2.00	-2.75	-16.48	16.71	260.51	0.40	GyroTool	0
11	978.40	0.19	162.93	94.40	978.14	-2.52	-3.27	-16.41	16.73	258.72	0.28	GyroTool	0
12	1072.70	0.05	28.17	94.30	1072.44	-2.64	-3.39	-16.34	16.69	258.29	0.24	GyroTool	0
13	1167.10	0.16	303.72	94.40	1166.84	-2.52	-3.28	-16.43	16.75	258.72	0.17	GyroTool	0
14	1261.40	0.23	264.71	94.30	1261.14	-2.45	-3.22	-16.73	17.04	259.10	0.15	GyroTool	0
15	1355.80	0.07	211.46	94.40	1355.54	-2.51	-3.29	-16.95	17.26	259.02	0.21	GyroTool	0
16	1450.10	0.32	86.99	94.30	1449.84	-2.56	-3.32	-16.71	17.04	258.76	0.39	GyroTool	0
17	1544.50	0.28	76.73	94.40	1544.24	-2.51	-3.26	-16.23	16.55	258.65	0.07	GyroTool	0
18	1638.80	0.21	66.12	94.30	1638.53	-2.41	-3.13	-15.84	16.15	258.81	0.09	GyroTool	0
19	1733.20	0.44	82.76	94.40	1732.93	-2.31	-3.02	-15.33	15.62	258.86	0.26	GyroTool	0
20	1827.50	0.79	88.37	94.30	1827.23	-2.30	-2.95	-14.32	14.62	258.34	0.38	GyroTool	0
21	1921.90	0.93	92.06	94.40	1921.62	-2.37	-2.96	-12.90	13.24	257.07	0.16	GyroTool	0
22	2016.20	0.46	87.90	94.30	2015.91	-2.44	-2.98	-11.76	12.13	255.80	0.50	GyroTool	0
23	2047.20	0.32	77.50	31.00	2046.91	-2.42	-2.95	-11.55	11.92	255.66	0.50	GyroTool	0
24	2085.00	0.22	195.52	37.80	2084.71	-2.47	-3.00	-11.47	11.85	255.34	1.23	GyroTool	0
25	2146.00	0.09	44.61	61.00	2145.71	-2.55	-3.08	-11.46	11.87	254.97	0.49	GyroTool	0
26	2241.00	0.09	55.60	95.00	2240.71	-2.46	-2.98	-11.35	11.73	255.27	0.02	GyroTool	0
27	2307.00	0.40	165.59	66.00	2306.71	-2.66	-3.18	-11.25	11.69	254.23	0.67	GyroTool	0
28	2337.00	0.79	173.20	30.00	2336.71	-2.97	-3.48	-11.20	11.73	252.72	1.32	GyroTool	0
29	2369.00	1.10	181.90	32.00	2368.70	-3.50	-4.01	-11.18	11.88	250.27	1.06	GyroTool	0
30	2400.00	1.71	182.60	31.00	2399.69	-4.25	-4.77	-11.21	12.19	246.96	1.97	GyroTool	0
31	2432.00	2.29	185.81	32.00	2431.67	-5.36	-5.88	-11.30	12.74	242.50	1.85	GyroTool	0
32	2464.00	3.12	187.52	32.00	2463.64	-6.85	-7.38	-11.48	13.65	237.25	2.61	GyroTool	0
33	2527.00	4.31	190.73	63.00	2526.50	-10.84	-11.41	-12.14	16.66	226.79	1.92	GyroTool	0
34	2622.00	4.90	190.42	95.00	2621.20	-18.27	-18.91	-13.54	23.26	215.61	0.62	GyroTool	0
35	2717.00	6.59	188.31	95.00	2715.72	-27.57	-28.29	-15.06	32.05	208.03	1.79	GyroTool	0
36	2812.00	6.59	185.81	95.00	2810.09	-38.32	-39.11	-16.40	42.41	202.75	0.30	GyroTool	0
37	2846.00	6.90	185.11	34.00	2843.85	-42.27	-43.08	-16.78	46.24	201.28	0.94	GyroTool	0
38	2908.00	7.51	185.81	62.00	2905.36	-49.97	-50.82	-17.52	53.76	199.02	0.99	GyroTool	0
39	3003.00	7.51	184.62	95.00	2999.55	-62.27	-63.19	-18.65	65.88	196.45	0.16	GyroTool	0
40	3098.00	8.09	189.19	95.00	3093.67	-74.97	-75.97	-20.22	78.62	194.90	0.89	GyroTool	0
41	3193.00	8.39	189.81	95.00	3187.69	-88.28	-89.40	-22.47	92.18	194.11	0.33	GyroTool	0
42	3287.00	8.79	189.90	94.00	3280.63	-101.99	-103.24	-24.87	106.19	193.55	0.43	GyroTool	0
43	3382.00	8.70	188.93	95.00	3374.53	-116.12	-117.48	-27.24	120.6	193.05	0.18	GyroTool	0
44	3476.00	9.01	188.40	94.00	3467.41	-130.31	-131.79	-29.41	135.03	192.58	0.34	GyroTool	0
45	3574.00	8.22	186.91	98.00	3564.30	-144.75	-146.34	-31.38	149.66	192.10	0.84	GyroTool	0
46	3669.00	8.00	185.02	95.00	3658.35	-158.00	-159.66	-32.77	162.99	191.60	0.36	GyroTool	0
47	3764.00	8.22	187.52	95.00	3752.40	-171.24	-172.98	-34.24	176.34	191.20	0.44	GyroTool	0
48	3857.00	8.31	190.11	93.00	3844.44	-184.34	-186.19	-36.29	189.69	191.03	0.41	GyroTool	0
49	3951.00	8.70	190.20	94.00	3937.40	-197.90	-199.87	-38.74	203.59	190.97	0.42	GyroTool	0
50	4045.00	8.79	190.20	94.00	4030.31	-211.83	-213.94	-41.27	217.88	190.92	0.10	GyroTool	0
51	4143.00	8.31	188.31	98.00	4127.22	-226.09	-228.32	-43.62	232.45	190.82	0.57	GyroTool	0
52	4238.00	7.60	184.70	95.00	4221.31	-239.06	-241.37	-45.13	245.55	190.59	0.91	GyroTool	0
53	4333.00	7.29	183.92	95.00	4315.51	-251.28	-253.64	-46.06	257.79	190.29	0.34	GyroTool	0
54	4426.00	7.12	183.13	93.00	4407.77	-262.87	-265.29	-46.77	269.38	190.00	0.21	GyroTool	0
55	4521.00	6.90	181.81	95.00	4502.06	-274.42	-276.87	-47.28	280.88	189.69	0.29	GyroTool	0
56	4615.00	7.21	183.70	94.00	4595.35	-285.91	-288.40	-47.84	292.34	189.42	0.41	GyroTool	0
57	4708.00	7.78	185.41	93.00	4687.56	-297.95	-300.49	-48.81	304.43	189.23	0.66	GyroTool	0
58	4802.00	8.22	183.92	94.00	4780.64	-310.92	-313.53	-49.86	317.47	189.04	0.52	GyroTool	0
59	4900.00	8.09	186.20	98.00	4877.65	-324.70	-327.37	-51.09	331.33	188.87	0.36	GyroTool	0
60	4996.00	8.31	189.41	96.00	4972.67	-338.16	-340.93	-52.95	345.02	188.83	0.53	GyroTool	0
61	5091.00	8.48	187.13	95.00	5066.65	-351.78	-354.66	-54.94	358.89	188.81	0.39	GyroTool	0
62	5185.00	8.22	187.52	94.00	5159.65	-365.22	-368.19	-56.68	372.53	188.75	0.28	GyroTool	0
63	5280.00	8.31	186.29	95.00	5253.67	-378.69	-381.75	-58.32	386.18	188.69	0.21	GyroTool	0
64	5375.00	8.39	186.73	95.00	5347.66	-392.31	-395.46	-59.89	399.97	188.61	0.11	GyroTool	0
65	5471.00	8.48	186.42	96.00	5442.62	-406.21	-409.45	-61.50	414.04	188.54	0.11	GyroTool	0
66	5566.00	8.48	188.40	95.00	5536.58	-420.01	-423.34	-63.31	428.04	188.51	0.31	GyroTool	0
67	5660.00	8.79	188.62	94.00	5629.52	-433.85	-437.29	-65.40	442.16	188.51	0.33	GyroTool	0
68	5755.00	8.39	188.01	95.00	5723.45	-447.79	-451.33	-67.45	456.35	188.50	0.43	GyroTool	0
69	5849.00	8.22	189.10	94.00	5816.47	-461.11	-464.76	-69.47	469.92	188.50	0.25	GyroTool	0
70	5941.00	7.51	191.83	92.00	5907.60	-473.37	-477.14	-71.74	482.5	188.55	0.87	GyroTool	0
71	6035.00	6.81	190.20	94.00	6000.87	-484.75	-488.64	-73.99	494.21	188.61	0.78	GyroTool	0
72	6167.00	5.71	195.39	132.00	6132.08	-498.63	-502.67	-77.12	508.55	188.72	0.94	GyroTool	0
73	6229.00	5.80	195.70	62.00	6193.77	-504.53	-508.66	-78.78	514.73	188.80	0.15	GyroTool	0
74	6322.00	6.28	193.19	93.00	6286.25	-513.89	-518.14	-81.22	524.46	188.91	0.59	GyroTool	0
75	6419.00	6.90	187.83	97.00	6382.61	-524.73	-529.07	-83.22	535.58	188.94	0.90	GyroTool	0
76	6515.00	7.60	185.81	96.00	6477.84	-536.68	-541.10	-84.65	547.68	188.89	0.78	GyroTool	0
77	6609.00	8.00	186.51	94.00	6570.97	-549.28	-553.79	-86.02	560.43	188.83	0.44	GyroTool	0
78	6704.00	8.22	187.83	95.00	6665.02	-562.49	-567.08	-87.69	573.82	188.79	0.30	GyroTool	0
79	6798.00	7.91	187.13	94.00	6758.09	-575.47	-580.16	-89.41	587.01	188.76	0.35	GyroTool	0
80	6842.00	6.68	185.90	44.00	6801.74	-580.99	-585.71	-90.05	592.59	188.74	2.82	GyroTool	0
81	6865.00	6.02	184.01	23.00	6824.59	-583.51	-588.24	-90.27	595.13	188.72	3.01	GyroTool	0
82	6892.00	5.41	181.59	27.00	6851.46	-586.18	-590.93	-90.41	597.8	188.70	2.43	GyroTool	0
83	6927.00	4.31	179.92	35.00	6886.33	-589.14	-593.89	-90.45	600.74	188.66	3.17	GyroTool	0
84	6957.00	3.38	176.80	30.00	6916.27	-591.15	-595.90	-90.40	602.72	188.63	3.18	GyroTool	0
85	6980.00	2.50	170.82	23.00	6939.24	-592.33	-597.07	-90.28	603.86	188.60	4.05	GyroTool	0
86	7012.00	1.67	154.26	32.00	6971.21	-593.45	-598.18	-89.97	604.91	188.55	3.19	SlimPulse	0
87	7044.00	1.69	140.34	32.00	7003.20	-594.26	-598.96	-89.46	605.61	188.50	1.27	SlimPulse	0
88	7075.00	2.80	31.93	31.00	7034.19	-594.00	-598.67	-88.77	605.22	188.43	11.95	SlimPulse	0
89	7107.00	7.60	11.91	32.00	7066.05	-591.30	-595.94	-87.92	602.39	188.39	15.82	SlimPulse	0
90	7139.00	12.71	7.54	32.00	7097.54	-585.78	-590.37	-87.02	596.75	188.39	16.12	SlimPulse	0
91	7171.00	17.51	3.66	32.00	7128.42	-577.53	-582.07	-86.25	588.43	188.43	15.33	SlimPulse	0

92	7202.00	22.07	0.96	31.00	7157.58	-567.07	-571.59	-85.85	578	188.54	14.98	SlimPulse	0
93	7234.00	26.94	358.76	32.00	7186.69	-553.82	-558.32	-85.91	564.89	188.75	15.48	SlimPulse	0
94	7266.00	31.17	355.73	32.00	7214.66	-538.29	-542.81	-86.69	549.69	189.07	14.01	SlimPulse	0
95	7297.00	34.55	354.26	31.00	7240.70	-521.49	-526.06	-88.16	533.4	189.51	11.20	SlimPulse	0
96	7329.00	37.64	353.76	32.00	7266.55	-502.67	-507.31	-90.13	515.26	190.07	9.70	SlimPulse	0
97	7361.00	41.50	353.96	32.00	7291.22	-482.33	-487.05	-92.31	495.72	190.73	12.05	SlimPulse	0
98	7392.00	45.14	354.79	31.00	7313.77	-461.09	-465.89	-94.39	475.35	191.45	11.91	SlimPulse	0
99	7424.00	49.17	355.59	32.00	7335.52	-437.65	-442.51	-96.35	452.88	192.28	12.70	SlimPulse	0
100	7455.00	53.12	355.98	31.00	7354.97	-413.53	-418.44	-98.13	429.79	193.20	12.78	SlimPulse	0
101	7487.00	56.96	356.29	32.00	7373.30	-387.31	-392.28	-99.89	404.8	194.29	12.02	SlimPulse	0
102	7519.00	60.69	356.75	32.00	7389.86	-359.94	-364.96	-101.55	378.82	195.55	11.74	SlimPulse	0
103	7551.00	64.20	356.85	32.00	7404.66	-331.58	-336.64	-103.13	352.08	197.03	10.98	SlimPulse	0
104	7582.00	67.47	357.18	31.00	7417.35	-303.30	-308.40	-104.60	325.65	198.74	10.58	SlimPulse	0
105	7614.00	70.57	357.47	32.00	7428.81	-273.43	-278.55	-106.00	298.04	200.83	9.72	SlimPulse	0
106	7645.00	73.50	358.25	31.00	7438.37	-243.94	-249.09	-107.10	271.14	203.27	9.75	SlimPulse	0
107	7677.00	76.99	359.23	32.00	7446.52	-213.01	-218.16	-107.78	243.33	206.29	11.30	SlimPulse	0
108	7709.00	81.89	359.74	32.00	7452.39	-181.58	-186.71	-108.06	215.72	210.06	15.41	SlimPulse	0
109	7741.00	86.17	0.00	32.00	7455.71	-149.80	-154.89	-108.13	188.9	214.92	13.41	SlimPulse	0
110	7772.00	90.41	0.09	31.00	7456.64	-118.85	-123.91	-108.10	164.44	221.10	13.67	SlimPulse	0
111	7804.00	91.31	359.85	32.00	7456.16	-86.89	-91.92	-108.12	141.91	229.63	2.89	SlimPulse	0
112	7834.00	91.55	359.73	30.00	7455.41	-56.92	-61.93	-108.23	124.69	240.22	0.89	SlimPulse	0
113	7929.00	93.79	359.58	95.00	7450.99	37.89	32.96	-108.80	113.68	286.86	-2.36	SlimPulse	0
114	8024.00	93.23	359.77	95.00	7445.17	132.64	127.78	-109.34	168.18	319.45	0.61	SlimPulse	0
115	8117.00	92.89	359.19	93.00	7440.21	225.45	220.65	-110.18	246.63	333.46	0.72	SlimPulse	0
116	8212.00	92.82	358.77	95.00	7435.47	320.29	315.51	-111.87	334.76	340.48	0.45	SlimPulse	0
117	8306.00	92.82	357.83	94.00	7430.85	414.16	409.36	-114.65	425.11	344.35	1.00	SlimPulse	0
118	8401.00	91.00	358.10	95.00	7427.68	509.10	504.24	-118.01	517.87	346.83	1.94	SlimPulse	0
119	8496.00	90.72	358.18	95.00	7426.25	604.08	599.18	-121.09	611.29	348.57	0.30	SlimPulse	0
120	8591.00	90.10	357.50	95.00	7425.57	699.08	694.11	-124.67	705.22	349.82	0.97	SlimPulse	0
121	8686.00	90.10	358.29	95.00	7425.40	794.07	789.04	-128.15	799.38	350.77	0.83	SlimPulse	0
122	8780.00	90.17	358.08	94.00	7425.17	888.06	883.00	-131.13	892.68	351.55	0.24	SlimPulse	0
123	8875.00	90.31	358.60	95.00	7424.77	983.05	977.96	-133.88	987.08	352.20	0.57	SlimPulse	0
124	8970.00	89.97	359.84	95.00	7424.55	1078.00	1072.94	-135.17	1081.43	352.82	1.35	SlimPulse	0
125	9065.00	89.93	1.31	95.00	7424.63	1172.85	1167.94	-134.22	1175.62	353.44	1.54	SlimPulse	0
126	9160.00	92.62	1.78	95.00	7422.52	1267.56	1262.87	-131.66	1269.71	354.05	2.87	SlimPulse	0
127	9255.00	93.10	1.56	95.00	7417.79	1362.18	1357.71	-128.90	1363.82	354.58	0.55	SlimPulse	0
128	9350.00	93.02	1.09	95.00	7412.72	1456.82	1452.55	-126.70	1458.07	355.01	0.50	SlimPulse	0
129	9445.00	92.96	0.42	95.00	7407.76	1551.53	1547.41	-125.46	1552.49	355.36	0.71	SlimPulse	0
130	9540.00	93.03	359.51	95.00	7402.81	1646.30	1642.28	-125.52	1647.07	355.63	0.96	SlimPulse	0
131	9635.00	93.10	358.98	95.00	7397.73	1741.11	1737.14	-126.78	1741.76	355.83	0.56	SlimPulse	0
132	9730.00	93.09	358.60	95.00	7392.60	1835.95	1831.98	-128.79	1836.5	355.98	0.40	SlimPulse	0
133	9825.00	92.96	358.19	95.00	7387.59	1930.80	1926.81	-131.45	1931.29	356.10	0.45	SlimPulse	0
134	9920.00	93.10	357.78	95.00	7382.57	2025.66	2021.62	-134.78	2026.1	356.19	0.45	SlimPulse	0
135	10015.00	93.13	357.70	95.00	7377.41	2120.52	2116.40	-138.52	2120.93	356.26	0.10	SlimPulse	0
136	10110.00	92.92	356.21	95.00	7372.39	2215.38	2211.13	-143.57	2215.79	356.28	1.58	SlimPulse	0
137	10205.00	92.41	355.28	95.00	7367.98	2310.24	2305.77	-150.61	2310.68	356.26	1.12	SlimPulse	0
138	10300.00	89.90	354.90	95.00	7366.06	2405.13	2400.39	-158.75	2405.63	356.22	2.67	SlimPulse	0
139	10394.00	89.90	355.36	94.00	7366.23	2499.06	2494.05	-166.73	2499.62	356.18	0.49	SlimPulse	0
140	10489.00	89.93	355.63	95.00	7366.38	2594.01	2588.76	-174.18	2594.61	356.15	0.28	SlimPulse	0
141	10584.00	90.10	356.08	95.00	7366.35	2688.98	2683.51	-181.05	2689.61	356.14	0.51	SlimPulse	0
142	10678.00	90.10	356.29	94.00	7366.18	2782.96	2777.30	-187.30	2783.61	356.14	0.21	SlimPulse	0
143	10772.00	89.21	357.20	94.00	7366.74	2876.95	2871.15	-192.64	2877.6	356.16	1.36	SlimPulse	0
144	10867.00	89.00	357.65	95.00	7368.23	2971.93	2966.04	-196.91	2972.57	356.20	0.52	SlimPulse	0
145	10961.00	88.87	358.51	94.00	7369.97	3065.91	3059.97	-200.06	3066.5	356.26	0.93	SlimPulse	0
146	11056.00	88.90	359.62	95.00	7371.83	3160.85	3154.94	-201.61	3161.37	356.34	1.17	SlimPulse	0
147	11150.00	89.07	0.55	94.00	7373.49	3254.73	3248.92	-201.47	3255.16	356.45	1.00	SlimPulse	0
148	11244.00	89.04	1.36	94.00	7375.04	3348.53	3342.89	-199.90	3348.86	356.58	0.87	SlimPulse	0
149	11339.00	89.28	2.03	95.00	7376.44	3443.25	3437.84	-197.09	3443.49	356.72	0.75	SlimPulse	0
150	11432.00	89.24	1.47	93.00	7377.64	3535.97	3530.79	-194.25	3536.13	356.85	0.60	SlimPulse	0
151	11527.00	89.31	1.39	95.00	7378.84	3630.73	3625.75	-191.87	3630.82	356.97	0.12	SlimPulse	0
152	11622.00	89.28	0.84	95.00	7380.01	3725.52	3720.73	-190.02	3725.58	357.08	0.57	SlimPulse	0
153	11717.00	89.55	0.97	95.00	7380.98	3820.34	3815.71	-188.52	3820.36	357.17	0.32	SlimPulse	0
154	11812.00	88.87	0.54	95.00	7382.29	3915.16	3910.69	-187.27	3915.17	357.26	0.85	SlimPulse	0
155	11907.00	89.55	1.48	95.00	7383.60	4009.96	4005.67	-185.59	4009.96	357.35	1.22	SlimPulse	0
156	11949.00	90.31	1.86	42.00	7383.65	4051.84	4047.65	-184.37	4051.84	357.39	2.02	SlimPulse	0
157	12027.00	90.31	1.86	78.00	7383.23	4129.60	4125.60	-181.84	4129.61	357.48	0.00	Bit Proj.	7



Cimarex Scoter 6 Federal Com #2H Gyro+MWD 0ft to 12027ft MD

(Def Survey)

Report Date: July 14, 2013 - 11:59 AM
Client: Cimarex
Field: NM Eddy County (NAD 83)
Structure / Slot: Cactus 116 / Cimarex Scoter 6 Federal Com #2H
Well: Cimarex Scoter 6 Federal Com #2H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Cimarex Scoter 6 Federal Com #2H Gyro+MWD 0ft to 12027ft MD
Survey Date: July 01, 2013
Tort / AHD / DDI / ERD Ratio: 174.436 ° / 5357.178 ft / 6.178 / 0.718
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 9' 14.79500", W 104° 13' 19.48458"
Location Grid N/E Y/X: N 419818.200 ftUS, E 575767.200 ftUS
CRS Grid Convergence Angle: 0.0592 °
Grid Scale Factor: 0.99991045

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 357.380 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: KB
TVD Reference Elevation: 3363.000 ft above
Seabed / Ground Elevation: 3345.000 ft above
Magnetic Declination: 7.738 °
Total Gravity Field Strength: 998.4866mgn (9.80665 Based)
Total Magnetic Field Strength: 48280.551 nT
Magnetic Dip Angle: 59.943 °
Declination Date: July 01, 2013
Magnetic Declination Model: BGGM 2013
North Reference: Grid North
Grid Convergence Used: 0.0592 °
Total Corr Mag North->Grid North: 7.6786 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Scoter 6 Fed Com #2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	284.59M
	129.20	0.41	284.59	129.20	0.14	0.12	-0.45	0.46	284.59	0.32	284.08M
	223.60	0.97	284.08	223.59	0.47	0.40	-1.55	1.60	284.34	0.59	278.61M
	317.90	1.69	278.61	317.87	0.97	0.80	-3.70	3.78	282.18	0.77	271.96M
	412.30	2.44	271.96	412.20	1.40	1.08	-7.08	7.16	278.63	0.83	265.49M
	506.60	2.21	265.49	506.43	1.50	1.00	-10.90	10.95	275.25	0.37	248.87M
	601.00	1.47	248.87	600.78	1.05	0.42	-13.85	13.85	271.74	0.96	224.37M
	695.30	1.00	224.37	695.06	0.11	-0.60	-15.55	15.56	267.78	0.74	197.65M
	789.70	0.76	197.65	789.45	-1.04	-1.79	-16.32	16.41	263.74	0.50	175.82M
	884.00	0.45	175.82	883.74	-2.00	-2.75	-16.48	16.71	260.51	0.40	162.93M
	978.40	0.19	162.93	978.14	-2.52	-3.27	-16.41	16.73	258.72	0.28	28.17M
	1072.70	0.05	28.17	1072.44	-2.64	-3.39	-16.34	16.69	258.29	0.24	303.72M
	1167.10	0.16	303.72	1166.84	-2.52	-3.28	-16.43	16.75	258.72	0.17	264.71M
	1261.40	0.23	264.71	1261.14	-2.45	-3.22	-16.73	17.04	259.10	0.15	211.46M
	1355.80	0.07	211.46	1355.54	-2.51	-3.29	-16.95	17.26	259.02	0.21	86.99M
	1450.10	0.32	86.99	1449.84	-2.56	-3.32	-16.71	17.04	258.76	0.39	76.73M
	1544.50	0.28	76.73	1544.24	-2.51	-3.26	-16.23	16.55	258.65	0.07	66.12M
	1638.80	0.21	66.12	1638.53	-2.41	-3.13	-15.84	16.15	258.81	0.09	82.76M
	1733.20	0.44	82.76	1732.93	-2.31	-3.02	-15.33	15.62	258.86	0.26	88.37M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Final Gyro	1827.50	0.79	88.37	1827.23	-2.30	-2.95	-14.32	14.62	258.34	0.38	92.06M
	1921.90	0.93	92.06	1921.62	-2.37	-2.96	-12.90	13.24	257.07	0.16	87.9M
	2016.20	0.46	87.90	2015.91	-2.44	-2.98	-11.76	12.13	255.80	0.50	77.5M
	2047.20	0.32	77.50	2046.91	-2.42	-2.95	-11.55	11.92	255.66	0.50	195.52M
	2085.00	0.22	195.52	2084.71	-2.47	-3.00	-11.47	11.85	255.34	1.23	44.61M
	2146.00	0.09	44.61	2145.71	-2.55	-3.08	-11.46	11.87	254.97	0.49	55.6M
	2241.00	0.09	55.60	2240.71	-2.46	-2.98	-11.35	11.73	255.27	0.02	165.59M
	2307.00	0.40	165.59	2306.71	-2.66	-3.18	-11.25	11.69	254.23	0.67	173.2M
	2337.00	0.79	173.20	2336.71	-2.97	-3.48	-11.20	11.73	252.72	1.32	181.9M
	2369.00	1.10	181.90	2368.70	-3.49	-4.01	-11.18	11.88	250.27	1.06	182.6M
	2400.00	1.71	182.60	2399.69	-4.25	-4.77	-11.21	12.19	246.96	1.97	185.81M
	2432.00	2.29	185.81	2431.67	-5.36	-5.88	-11.30	12.74	242.50	1.85	187.52M
	2464.00	3.12	187.52	2463.64	-6.85	-7.38	-11.48	13.65	237.25	2.61	190.73M
	2527.00	4.31	190.73	2526.50	-10.84	-11.41	-12.14	16.66	226.79	1.92	190.42M
	2622.00	4.90	190.42	2621.20	-18.27	-18.91	-13.54	23.26	215.61	0.62	188.31M
	2717.00	6.59	188.31	2715.72	-27.57	-28.29	-15.06	32.05	208.03	1.79	185.81M
	2812.00	6.59	185.81	2810.09	-38.32	-39.11	-16.40	42.41	202.75	0.30	185.11M
	2846.00	6.90	185.11	2843.85	-42.27	-43.08	-16.78	46.24	201.28	0.94	185.81M
	2908.00	7.51	185.81	2905.36	-49.97	-50.82	-17.52	53.76	199.02	0.99	184.62M
	3003.00	7.51	184.62	2999.55	-62.27	-63.19	-18.65	65.88	196.45	0.16	189.19M
	3098.00	8.09	189.19	3093.67	-74.97	-75.97	-20.22	78.62	194.90	0.89	16.81R
Survey 4-Jul-13	3193.00	8.39	189.81	3187.69	-88.28	-89.40	-22.47	92.18	194.11	0.33	1.97R
	3287.00	8.79	189.90	3280.63	-101.99	-103.24	-24.87	106.19	193.55	0.43	121.87L
	3382.00	8.70	188.93	3374.53	-116.12	-117.48	-27.24	120.60	193.05	0.18	15.01L
	3476.00	9.01	188.40	3467.41	-130.31	-131.79	-29.41	135.03	192.58	0.34	164.96L
	3574.00	8.22	186.91	3564.30	-144.75	-146.34	-31.38	149.66	192.10	0.84	130.46L
	3669.00	8.00	185.02	3658.35	-158.00	-159.66	-32.77	162.99	191.60	0.36	59.29R
	3764.00	8.22	187.52	3752.40	-171.24	-172.98	-34.24	176.34	191.20	0.44	77.69R
	3857.00	8.31	190.11	3844.44	-184.34	-186.19	-36.29	189.69	191.03	0.41	2R
	3951.00	8.70	190.20	3937.40	-197.89	-199.87	-38.74	203.59	190.97	0.42	HS
	4045.00	8.79	190.20	4030.31	-211.83	-213.94	-41.27	217.88	190.92	0.10	150.59L
	4143.00	8.31	188.31	4127.22	-226.08	-228.32	-43.62	232.45	190.82	0.57	146.65L
	4238.00	7.60	184.70	4221.31	-239.05	-241.37	-45.13	245.55	190.59	0.91	162.33L
	4333.00	7.29	183.92	4315.51	-251.27	-253.64	-46.06	257.79	190.29	0.34	150.16L
	4426.00	7.12	183.13	4407.77	-262.87	-265.29	-46.77	269.38	190.00	0.21	144.44L
	4521.00	6.90	181.81	4502.06	-274.42	-276.87	-47.28	280.88	189.69	0.29	37.77R
	4615.00	7.21	183.70	4595.35	-285.91	-288.40	-47.84	292.34	189.42	0.41	22.22R
	4708.00	7.78	185.41	4687.56	-297.94	-300.49	-48.81	304.43	189.23	0.66	25.97L
	4802.00	8.22	183.92	4780.64	-310.92	-313.53	-49.86	317.47	189.04	0.52	113.02R
	4900.00	8.09	186.20	4877.65	-324.69	-327.37	-51.09	331.33	188.87	0.36	65.93R
	4996.00	8.31	189.41	4972.67	-338.16	-340.93	-52.95	345.02	188.83	0.53	64.08L
	5091.00	8.48	187.13	5066.65	-351.77	-354.66	-54.94	358.89	188.81	0.39	167.9R
	5185.00	8.22	187.52	5159.65	-365.22	-368.19	-56.68	372.53	188.75	0.28	63.63L
	5280.00	8.31	186.29	5253.67	-378.69	-381.75	-58.32	386.18	188.69	0.21	38.83R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	5375.00	8.39	186.73	5347.66	-392.31	-395.46	-59.89	399.97	188.61	0.11	26.96L
	5471.00	8.48	186.42	5442.62	-406.21	-409.45	-61.50	414.04	188.54	0.11	90R
	5566.00	8.48	188.40	5536.58	-420.00	-423.34	-63.31	428.04	188.51	0.31	6.19R
	5660.00	8.79	188.62	5629.52	-433.85	-437.29	-65.40	442.16	188.51	0.33	167.47L
	5755.00	8.39	188.01	5723.45	-447.78	-451.33	-67.45	456.35	188.50	0.43	137.73R
	5849.00	8.22	189.10	5816.47	-461.10	-464.76	-69.47	469.92	188.50	0.25	153.6R
	5941.00	7.51	191.83	5907.60	-473.36	-477.14	-71.74	482.50	188.55	0.87	164.62L
	6035.00	6.81	190.20	6000.87	-484.74	-488.64	-73.99	494.21	188.61	0.78	155.34R
	6167.00	5.71	195.39	6132.08	-498.62	-502.67	-77.12	508.55	188.72	0.94	19.21R
	6229.00	5.80	195.70	6193.77	-504.53	-508.66	-78.78	514.73	188.80	0.15	30.07L
	6322.00	6.28	193.19	6286.25	-513.88	-518.14	-81.22	524.46	188.91	0.59	47.46L
	6419.00	6.90	187.83	6382.61	-524.72	-529.07	-83.22	535.58	188.94	0.90	21.01L
	6515.00	7.60	185.81	6477.84	-536.67	-541.10	-84.65	547.68	188.89	0.78	13.71R
	6609.00	8.00	186.51	6570.97	-549.28	-553.79	-86.02	560.43	188.83	0.44	40.9R
	6704.00	8.22	187.83	6665.02	-562.48	-567.08	-87.69	573.82	188.79	0.30	162.77L
	6798.00	7.91	187.13	6758.09	-575.46	-580.16	-89.41	587.01	188.76	0.35	173.37L
	6842.00	6.68	185.90	6801.74	-580.98	-585.71	-90.05	592.59	188.74	2.82	163.36L
	6865.00	6.02	184.01	6824.59	-583.50	-588.24	-90.27	595.13	188.72	3.01	159.64L
	6892.00	5.41	181.59	6851.46	-586.18	-590.93	-90.41	597.80	188.70	2.43	173.5L
	6927.00	4.31	179.92	6886.33	-589.14	-593.89	-90.45	600.74	188.66	3.17	176.8M
	6957.00	3.38	176.80	6916.27	-591.15	-595.90	-90.40	602.72	188.63	3.18	170.82M
Survey 6-Jul-13	6980.00	2.50	170.82	6939.24	-592.32	-597.07	-90.28	603.86	188.60	4.05	154.26M
	7012.00	1.67	154.26	6971.21	-593.44	-598.18	-89.97	604.91	188.55	3.18	140.34M
	7044.00	1.69	140.34	7003.20	-594.25	-598.97	-89.46	605.61	188.50	1.27	31.93M
	7075.00	2.80	31.93	7034.19	-593.99	-598.67	-88.77	605.22	188.43	11.93	11.91M
	7107.00	7.60	11.91	7066.05	-591.30	-595.94	-87.92	602.39	188.39	15.81	7.54M
	7139.00	12.71	7.54	7097.54	-585.78	-590.38	-87.02	596.75	188.39	16.14	13.78L
	7171.00	17.51	3.66	7128.42	-577.52	-582.08	-86.25	588.43	188.43	15.32	12.61L
Survey 8-Jul-13	7202.00	22.07	0.96	7157.58	-567.07	-571.59	-85.86	578.01	188.54	15.00	11.62L
	7234.00	26.94	358.76	7186.69	-553.82	-558.33	-85.91	564.90	188.75	15.48	20.52L
	7266.00	31.17	355.73	7214.66	-538.28	-542.81	-86.69	549.69	189.07	13.99	13.9L
	7297.00	34.55	354.26	7240.70	-521.48	-526.06	-88.16	533.40	189.51	11.20	5.65L
	7329.00	37.64	353.76	7266.55	-502.66	-507.32	-90.13	515.26	190.07	9.70	1.97R
	7361.00	41.50	353.96	7291.21	-482.32	-487.05	-92.31	495.72	190.73	12.07	9.19R
	7392.00	45.14	354.79	7313.76	-461.09	-465.89	-94.39	475.35	191.45	11.88	8.56R
	7424.00	49.17	355.59	7335.52	-437.65	-442.51	-96.35	452.88	192.28	12.73	4.52R
	7455.00	53.12	355.98	7354.96	-413.52	-418.44	-98.12	429.79	193.20	12.78	3.87R
	7487.00	56.96	356.29	7373.30	-387.31	-392.28	-99.89	404.80	194.29	12.03	6.14R
	7519.00	60.69	356.75	7389.86	-359.93	-364.96	-101.55	378.82	195.55	11.72	1.47R
	7551.00	64.20	356.85	7404.66	-331.57	-336.64	-103.13	352.08	197.03	10.97	5.33R
	7582.00	67.47	357.18	7417.35	-303.29	-308.40	-104.60	325.65	198.74	10.59	5.04R
	7614.00	70.57	357.47	7428.81	-273.42	-278.55	-106.00	298.04	200.83	9.72	14.33R
	7645.00	73.50	358.25	7438.37	-243.93	-249.09	-107.10	271.14	203.27	9.75	15.32R
	7677.00	76.99	359.23	7446.51	-213.00	-218.16	-107.78	243.33	206.29	11.30	5.89R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Survey 9-Jul-13	7709.00	81.89	359.74	7452.38	-181.57	-186.71	-108.06	215.72	210.06	15.39	3.47R
	7741.00	86.17	0.00	7455.71	-149.79	-154.89	-108.13	188.90	214.92	13.40	1.22R
	7772.00	90.41	0.09	7456.63	-118.84	-123.91	-108.10	164.44	221.10	13.68	14.93L
	7804.00	91.31	359.85	7456.15	-86.88	-91.92	-108.12	141.91	229.63	2.91	26.56L
	7834.00	91.55	359.73	7455.40	-56.91	-61.92	-108.23	124.69	240.22	0.89	3.82L
	7929.00	93.79	359.58	7450.98	37.90	32.96	-108.80	113.69	286.86	2.36	161.29R
	8024.00	93.23	359.77	7445.16	132.65	127.78	-109.34	168.18	319.45	0.62	120.4L
	8117.00	92.89	359.19	7440.20	225.45	220.65	-110.18	246.63	333.46	0.72	99.46L
	8212.00	92.82	358.77	7435.46	320.30	315.51	-111.87	334.76	340.48	0.45	90L
	8306.00	92.82	357.83	7430.84	414.17	409.36	-114.66	425.11	344.35	1.00	171.56R
Survey 11-Jul-13	8401.00	91.00	358.10	7427.67	509.11	504.24	-118.03	517.87	346.83	1.94	164.06R
	8496.00	90.72	358.18	7426.25	604.09	599.18	-121.11	611.30	348.57	0.31	132.36L
	8591.00	90.10	357.50	7425.57	699.08	694.11	-124.69	705.22	349.82	0.97	90R
	8686.00	90.10	358.29	7425.40	794.08	789.04	-128.18	799.39	350.77	0.83	71.56L
	8780.00	90.17	358.08	7425.18	888.07	883.00	-131.16	892.68	351.55	0.24	74.93R
	8875.00	90.31	358.60	7424.78	983.05	977.96	-133.91	987.08	352.20	0.57	105.33R
	8970.00	89.97	359.84	7424.55	1078.00	1072.94	-135.20	1081.43	352.82	1.35	91.56R
	9065.00	89.93	1.31	7424.63	1172.85	1167.94	-134.25	1175.63	353.44	1.55	9.9R
	9160.00	92.62	1.78	7422.52	1267.57	1262.87	-131.69	1269.72	354.05	2.87	24.59L
	9255.00	93.10	1.56	7417.78	1362.19	1357.71	-128.93	1363.82	354.58	0.56	99.66L
Survey 11-Jul-13	9350.00	93.02	1.09	7412.71	1456.82	1452.55	-126.73	1458.07	355.01	0.50	95.11L
	9445.00	92.96	0.42	7407.75	1551.53	1547.41	-125.48	1552.49	355.36	0.71	85.57L
	9540.00	93.03	359.51	7402.79	1646.30	1642.28	-125.54	1647.07	355.63	0.96	87.38R
	9635.00	93.09	0.84	7397.72	1741.05	1737.14	-125.25	1741.65	355.88	1.40	90L
	9730.00	93.09	358.60	7392.59	1835.83	1832.00	-125.71	1836.31	356.07	2.35	107.6L
	9825.00	92.96	358.19	7387.58	1930.68	1926.83	-128.37	1931.10	356.19	0.45	71.11L
	9920.00	93.10	357.78	7382.56	2025.54	2021.64	-131.71	2025.92	356.27	0.46	69.41L
	10015.00	93.13	357.70	7377.40	2120.40	2116.42	-135.45	2120.75	356.34	0.09	97.99L
	10110.00	92.92	356.21	7372.38	2215.26	2211.15	-140.49	2215.61	356.36	1.58	118.74L
	10205.00	92.41	355.28	7367.97	2310.12	2305.79	-147.53	2310.50	356.34	1.12	171.39L
Survey 11-Jul-13	10300.00	89.90	354.90	7366.05	2405.02	2400.41	-155.66	2405.45	356.29	2.67	90R
	10394.00	89.90	355.36	7366.22	2498.95	2494.07	-163.64	2499.43	356.25	0.49	83.66R
	10489.00	89.93	355.63	7366.36	2593.89	2588.78	-171.10	2594.43	356.22	0.29	69.3R
	10584.00	90.10	356.08	7366.33	2688.86	2683.53	-177.96	2689.42	356.21	0.51	90R
	10678.00	90.10	356.29	7366.17	2782.84	2777.32	-184.22	2783.42	356.21	0.22	134.37R
	10772.00	89.21	357.20	7366.73	2876.83	2871.17	-189.56	2877.42	356.22	1.35	115.02R
	10867.00	89.00	357.65	7368.22	2971.82	2966.06	-193.82	2972.38	356.26	0.52	98.61R
	10961.00	88.87	358.51	7369.97	3065.79	3059.99	-196.97	3066.32	356.32	0.93	88.46R
	11056.00	88.90	359.62	7371.81	3160.73	3154.96	-198.52	3161.20	356.40	1.17	79.65R
	11150.00	89.07	0.55	7373.48	3254.61	3248.94	-198.38	3254.99	356.51	1.01	92.13R
Survey 11-Jul-13	11244.00	89.04	1.36	7375.03	3348.42	3342.91	-196.82	3348.70	356.63	0.86	70.3R
	11339.00	89.28	2.03	7376.42	3443.14	3437.86	-194.01	3443.33	356.77	0.75	94.09L
	11432.00	89.24	1.47	7377.62	3535.86	3530.81	-191.17	3535.98	356.90	0.60	86.37L
	11622.00	89.28	0.84	7380.08	3725.43	3720.75	-187.34	3725.47	357.12	0.33	25.71R

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Survey 12-Jul-13	11717.00	89.55	0.97	7381.05	3820.24	3815.74	-185.84	3820.26	357.21	0.32	147.7L
	11812.00	88.87	0.54	7382.36	3915.07	3910.72	-184.59	3915.07	357.30	0.85	54.12R
	11907.00	89.55	1.48	7383.67	4009.87	4005.69	-182.91	4009.87	357.39	1.22	26.57R
Final Survey	11949.00	90.31	1.86	7383.72	4051.75	4047.68	-181.69	4051.75	357.43	2.02	HS
Proj to TD	12027.00	90.31	1.86	7383.30	4129.51	4125.63	-179.16	4129.52	357.51	0.00	

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	18.000	Act Stns	30.000	30.000	SLB_NSG+MSHOT-Depth Only	Original Borehole / Cimarex Scoter 6 Federal Com #2H Gyro+MWD 0ft to 12027ft MD
	18.000	2047.200	Act Stns	30.000	30.000	SLB_NSG+MSHOT	Original Borehole / Cimarex Scoter 6 Federal Com #2H
	2047.200	11949.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Scoter 6 Federal Com #2H
	11949.000	12027.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Borehole / Cimarex Scoter 6 Federal Com #2H