

CAVALOZ DRILLING

P.O. BOX 1500 (575) 3910699 FAX (575) 391- 3824 HOBBS, NEW MEXICO 88241

INCLINATION REPORT

DATE: 4/9/12

15-39956

WELL NAME AND NUMBER KIOWA ST #8
LOCATION EDDY COUNTY
OPERATOR: COG LLC
DRILLING CONTRACTOR: CAVALOZ DRILLING RIG #1

THE UNDERSIGNED HEREBY CERTIFIES THAT HE IS AN AUTHORIZED REPRESENTATIVE OF THE DRILLING CONTRACTOR WHO DRILLED THE ABOVE DESCRIBED WELL AND THAT HE HAS CONDUCTED DEVIATION TEST AND OBTAINED THE FOLLOWING RESULTS:

DEGREE	DEPTH	DEGREE	DEPTH	DEGREE	DEPTH
0.7	140				
1.1	222				
0.4	441				
0.4	876				

DRILLING CONTRACTOR:
CAVALOZ DRILLING

BY: Bob Wegner
BOB WEGNER
DRILLING SUPERINTENDENT

SUBSCRIBED AND SWORN TO BEFORE ME ON THE 9th DAY OF April, 2012

MY COMMISSION EXPIRES: 3/6/15

Jessica Bueno



OFFICIAL SEAL
JESSICA BUENO
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires: 3/1/15



DIRECTIONAL REPORT

WELLNAME: KIOWA STATE #8

FIELD: RED LAKE

AFE NO.:

SURVEY TYF MWD-0

MD: 826

N/S: -0.40

ANGLE: 1.15

E/W: -6.40

WELL ID NO 30-015-39956

API NO.: 30-015-39956

AZIMUTH: 269.58

VS: -5.20

MEASURED DEPTH	INCLINATIO N ANGLE	AZIMUTH ANGLE	TVD	+NORTH - SOUTH	+EAST - WEST	VERTICAL SECTION
943	1.20	299.10	943	0.19	-8.64	0.19
1,006	1.30	302.70	1,006	0.89	-9.82	0.89
1,069	1.00	245.30	1,069	1.05	-10.92	1.05
1,163	1.10	124.80	1,163	0.19	-10.93	0.19
1,258	1.10	134.10	1,258	-0.96	-9.52	-0.96
1,352	0.50	102.20	1,352	-1.68	-8.47	-1.68
1,446	0.60	112.30	1,446	-1.95	-7.62	-1.95
1,541	0.10	214.30	1,541	-2.21	-7.21	-2.21
1,635	0.20	168.30	1,635	-2.44	-7.22	-2.44
1,675	0.10	231.90	1,675	-2.53	-7.23	-2.53
1,738	0.80	97.30	1,738	-2.62	-6.84	-2.62
1,801	1.90	120.10	1,801	-3.19	-5.50	-3.19
1,895	2.20	128.50	1,895	-5.10	-2.74	-5.10
1,959	2.40	124.90	1,959	-6.63	-0.68	-6.63
2,022	3.70	121.90	2,022	-8.46	2.13	-8.46
2,085	4.50	120.80	2,085	-10.80	5.98	-10.80
2,178	4.90	123.70	2,177	-14.87	12.42	-14.87
2,272	5.00	120.30	2,271	-19.17	19.29	-19.17
2,367	4.80	119.90	2,366	-23.24	26.31	-23.24
2,461	4.50	117.80	2,459	-26.92	32.98	-26.92
2,509	4.50	117.80	2,507	-28.67	36.32	-28.67
2,555	4.70	122.20	2,553	-30.69	39.51	-30.69
2,647	4.30	120.60	2,645	-34.45	45.66	-34.45
2,741	4.70	118.30	2,738	-38.07	52.09	-38.07
2,836	4.30	120.20	2,833	-41.71	58.59	-41.71
2,932	4.50	116.70	2,929	-45.21	65.07	-45.21
3,026	4.20	121.20	3,022	-48.65	71.31	-48.65
3,119	4.30	120.80	3,115	-52.20	77.21	-52.20
3,212	4.40	119.10	3,208	-55.72	83.33	-55.72
3,307	4.30	116.50	3,303	-59.08	89.70	-59.08
3,401	4.00	123.50	3,396	-62.47	95.58	-62.47
3,465	4.50	124.50	3,460	-65.12	99.52	-65.12
3,558	4.70	122.50	3,553	-69.23	105.74	-69.23
3,650	4.90	121.90	3,645	-73.33	112.25	-73.33
3,744	4.60	121.10	3,738	-77.40	118.89	-77.40
3,837	4.40	122.70	3,831	-81.26	125.08	-81.26
3,932	4.40	118.50	3,926	-84.96	131.35	-84.96
4,027	4.60	116.60	4,020	-88.41	137.96	-88.41
4,075	4.60	116.60	4,068	-90.13	141.40	-90.13

4,121	4 40	120.20	4,114	-91 91	144.45	-91 91
4,214	4 20	116 30	4,207	-95 21	150.58	-95 21
4,309	4 40	120.50	4,302	-98 60	156 84	-98.60
4,403	3 90	121.40	4,395	-102 10	162 68	-102 10
4,466	4 80	119 00	4,458	-104 49	166 81	-104 49
4,529	5 20	125.80	4,521	-107 44	171 43	-107 44
4,624	5 60	123 40	4,616	-112 51	178 79	-112 51
4,717	5 20	122 80	4,708	-117.29	186 12	-117.29
4,810	5 30	126.20	4,801	-122 11	193 13	-122.11
4,852	4.90	127 50	4,843	-124 35	196.12	-124 35
4,900	4.90	127 50	4,890	-126 85	199.37	-126.85

Page 1 of 1

Copyright © 1993-2012 by Canrig Drilling Technology Ltd. All rights reserved.