



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

HOBBS OCD

November 12, 2013

JAN 13 2014

30-025-41407 RECEIVED

CML Exploration
P.O. Box 890
Snyder, Texas 79550

Re: Beams 15 State #3
Sec. 15, T-17-S, R-32-E
Lea County, New Mexico

Attn: Nolan Von Roeder

The following is a Deviation Survey on the referenced well in Lea County, New Mexico:

180' - 0.75°	2801' - 0.5°	5450' - 1°	8228' - 1°	11130' - 1.5°
480' - 1°	3269' - 1.25°	5732' - 0.25°	8631' - 1°	11595' - 2°
853' - 1°	3458' - 1.25°	6231' - 1°	9101' - 0.75°	12064' - 3.75°
1205' - 0.75°	3861' - 0.75°	6511' - 1°	9567' - 1.5°	12221' - 3.25°
1489' - 0.5°	4239' - 0°	6980' - 1.5°	9878' - 1.5°	12658' - 5°
1882' - 0.5°	4547' - 0.5°	7447' - 0.5°	10534' - 2°	12845' - 4.25°
2326' - 0.25°	5013' - 1°	7945' - 1.5°	10721' - 1.25°	13064' - 4°

Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 12th day of November, 2013 by Gary W. Chappell.

NOTARY PUBLIC



OFFICIAL SEAL
CLARISSA CABEZUELA
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 10/2/16

FEB 13 2014



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LABORATORIES

ROTARY SIDEWALL CORE ANALYSIS

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CML EXPLORATION, LLC
BEAMS 15 STATE # 3
LEA COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-025-41407
FIELD : Sanmal; Penn
LOCATION: 352' FNL, 2094' FEL,
Section 15, T-17-S, R-33-E

FILE NO. : MD-67930
DATE : November 15, 2013
ANALYSTS : WH, SB, JR

DEAN STARK EXTRACTION

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	6098.0	2.85	16.1	2.348	29.8	26.2	69	80	Brt yl-gld	
2	6104.0	2.86	5.8	0.015	71.3	Tr	11	10	Brt yl-gld	
3	6158.0	2.86	6.7	0.039	32.5	10.6	214	60	Brt yl-gld	
4	6163.0	2.85	8.4	0.015	67.8	Tr	5	Tr	DI gld / mf	
5	6229.0	2.84	2.1	0.018	65.3	5.4	30	60	DI gld	
6	6233.0	2.84	7.7	0.517	24.8	23.2	266	80	DI gld	
7	6250.0	2.78	16.6	0.441	44.8	22.5	226	30	DI yl-dl gld	
8	6286.0	2.85	7.7	0.039	62.0	6.0	18	20	Brt yl-gld	
9	6346.0	2.84	10.7	0.104	64.0	7.4	10	20	DI gld	
10	6427.0	2.71	6.1	0.038	67.2	Tr	4	Tr	DI yl	
11	6480.0	2.71	9.4	0.144	65.0	0.0	6	0	Mf	
12	6537.0	2.74	4.6	0.018	62.5	Tr	5	Tr	DI yl	
13	6563.0	2.72	5.7	0.228	78.0	0.0	4	0	Mf	
14	6621.0	2.84	1.9	0.017	61.5	0.0	0	0	Mf	
15	6644.0	2.74	3.6	0.019	70.4	0.0	2	0	Mf	
16	6673.0	2.70	10.1	0.910	57.4	Tr	98	10	DI gld	
17	6718.0	2.76	4.8	0.056	67.0	Tr	3	Tr	DI yl	
18	6755.0	2.78	2.3	0.010	55.9	Tr	12	Tr	DI yl	
19	6763.0	2.85	5.3	1.001	12.3	15.7	387	90	Brt yl-wht	
20	6843.0	2.84	6.1	0.457	18.5	20.1	300	80	Brt yl-wht	



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SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
21	10147.0	2.72	6.3	0.158	63.4	Tr	4	Tr	DI yl-mf	
22	10149.0	2.71	7.4	0.127	67.6	Tr	2	Tr	DI yl-mf	
23	10430.0	2.77	3.9	0.041	63.7	Tr	2	Tr	DI yl	
24	10450.0	2.72	4.0	0.028	27.6	5.6	66	30	Brt yl-wht	
25	10455.0	2.73	8.4	9.562	13.7	14.8	353	90	Brt yl-wht-blu	
26	10457.0	2.74	8.2	10.368	17.1	15.2	179	80	Brt yl-wht-blu	
27	10459.0	2.73	13.2	434.676	18.4	15.1	455	80	Brt yl-wht-blu	
28	10548.0	2.86	5.2	0.081	12.9	13.3	360	90	Brt yl-wht-blu	
29	10550.0	2.85	5.4	0.141	15.4	14.9	376	90	Brt yl-wht-blu	
30	10644.0	2.73	10.5	0.073	50.2	0.0	27	0	Cont	
31	10651.0	2.71	6.0	0.081	64.0	Tr	2	Tr	Brt yl-wht	
32	10653.0	2.72	7.0	0.068	63.3	Tr	11	Tr	Brt yl-wht-blu	
33	10759.0	2.72	0.7	0.006	55.1	0.0	2	0		
34	10762.0	2.72	5.7	0.115	58.7	Tr	2	Tr	Blu	
35	10849.0	2.72	2.7	0.016	51.9	Tr	5	Tr	Brt yl-wht	
36	10851.0	2.73	7.0	0.050	26.7	15.0	410	80	Brt yl-wht-blu	
37	10855.0	2.73	2.8	0.015	42.6	Tr	101	20	Brt yl-wht-blu	
38	10869.0	2.73	7.2	0.538	30.2	12.7	61	60	Brt yl-wht-blu	
39	10920.0	2.72	6.5	1.639	11.8	9.1	135	60	Brt yl-wht-blu	
40	10979.0	2.72	5.4	0.037	15.6	7.2	98	30	Brt yl-wht-blu	



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					Sw	So		%		
41	11032.0	2.71	8.1	0.212	44.8	6.7	41	20	Brt yl-wht-blu	
42	11034.0	2.72	11.4	5.253	17.0	15.2	426	90	Brt yl-wht-blu	
43	11036.0	2.72	11.6	1.263	22.5	14.9	306	80	Brt yl-wht-blu	
44	11068.0	2.74	7.5	0.987	13.2	15.3	106	80	Brt yl-wht-blu	
45	11092.0	2.74	4.8	0.079	12.1	7.0	77	40	Brt yl-wht-blu	
46	11100.0	2.75	4.4	0.047	12.4	6.2	52	30	Brt yl-wht-blu	
47	11902.0	2.47	4.4	<.001	50.6	33.5	872	0		
48	12012.0	2.51	5.4	<.001	44.5	27.1	882	0		
49	12016.0	2.51	5.0	<.001	38.7	21.7	537	0		
50	12020.0	2.50	5.3	<.001	34.7	22.8	858	0		
51	12022.0	2.49	4.6	<.001	44.2	31.1	857	0		
52	12025.0	2.53	4.9	<.001	44.7	25.2	861	0		
53	12196.0	2.48	5.7	<.001	32.8	22.8	841	0		
54	12198.0	2.47	5.4	<.001	37.9	22.6	846	0		
55	12260.0	2.57	5.3	<.001	45.6	21.2	821	0		