

Linda Stiles

30-015-33607

S. CULEBRA BLUFF 23-#14

From: Don Robinson**Sent:** Monday, February 28, 2005 2:41 PM**To:** Linda Stiles**Subject:** FW: SCB 23 #14 Regulatory Issues

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From: Don Robinson**Sent:** Wednesday, February 23, 2005 1:40 PM**To:** Linda Stiles**Cc:** Andrew Tullis**Subject:** SCB 23 #14 Regulatory Issues

In response to the letter dated 2/18/05 from Bryan Arrant with NM EMNRD, as requested I have taken the TOTCO surveys and assumed that the orientation of the hole was consistent for all surveys. The maximum possible horizontal displacement from the surface was calculated to be 277 feet at 6419' MD and 6411 TVD. The figures are provided below. Keep in mind that this is a worst case scenario.

The 8-5/8" surface casing is tested prior to drilling out for all Range Resources wells we have been drilling in Eddy County, NM. The 8-5/8" 24# J-55 Casing is rated for 2950 psi and we test for 1000 psi which meets the "one third of the manufacturer's rated internal yield pressure. The plug was bumped on the 8-5/8" cement job on 11/2/04 at 10:45 AM and the test took place on 11/3/04 at 7:30 AM so 20-3/4 hours had transpired so we also met the Option 1 criteria of waiting "a minimum of 18 hours prior to commencing the test." The only issue that we may have not been totally compliant is applying the test pressure "for a period of 30 minutes". Based on the time breakdown it appears that approximately 15 minutes was spent testing the casing. I will insure that this 30 minute requirement is fully complied with for the drilling of all future wells.

As for the testing of the 5-1/2" casing, Andrew pressure tests the casing in the process of the completion so these details must be provided by him. If there is any other information that I can provide please don't hesitate to contact me.

**RANGE RESOURCES**

DIRECTIONAL SURVEY CALCULATION MINIMUM CURVATURE METHOD

Well Name		Target Direction		Slot	N / S	E / W
SCB 23 #14		0.00		Coordinate	0.00	0.00
Field		Type of Survey		Tie-in Point		
East Loving		TOTCO's		PLAN AT SURFACE		
				>>><<<		
Measured	Hole	Hole	Course	True Vertical	Vertical	Total Coordinate
Depth	Angle	Direction	Length	Depth	Section	N + / S -
0	0.00	0.00		0.00	0.00	0.00
252	0.50	0.00	252	252.00	0.00	1.10
335	0.50	0.00	83	334.99	1.82	1.82
837	0.75	0.00	502	836.96	7.30	7.30
1,326	1.25	0.00	489	1,325.89	15.83	15.83
1,829	2.25	0.00	503	1,828.65	31.19	31.19
2,329	4.50	0.00	500	2,327.75	60.63	60.63

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2,364	5.75	0.00	35	2,362.61	63.75	63.
2,770	5.50	0.00	406	2,766.65	103.55	103.
2,928	5.00	0.00	158	2,923.99	118.01	118.
3,178	4.25	0.00	250	3,173.17	138.17	138.
3,667	4.00	0.00	489	3,660.90	173.34	173.
4,193	2.25	0.00	526	4,186.10	202.01	202.
4,693	2.50	0.00	500	4,685.67	222.73	222.
5,190	1.75	0.00	497	5,182.33	241.16	241.
5,685	2.00	0.00	495	5,677.06	257.36	257.
6,166	1.50	0.00	481	6,157.84	272.05	272.
6,419	0.75	0.00	253	6,410.79	277.01	277.

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