

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

30-04-33607

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.

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DOUGLAS COUNTY

DIRECTIONAL SURVEY CALCULATION

MINIMUM CURVATURE METHOD

RB OPERATING

Well Name SCB 23 #14	Target Direction 0.00	Slot Coordinate	N / S 0.00	E / W 0.00	Hole Size 7.88	Calculation by Don Robinson	Date 2/23/05			
Field East Loving	Type of Survey TOTCO's	Tie-in Point PLAN A T SURFACE >>><<<					Directional Co. N/A			
Measured	Hole Angle	Hole Direction	Course Length	True Vertical Depth	Vertical Section	Total Coordinate N + / S -	E + / W -	Dogleg Severity	Build Up °/100 ft	Walk/ °/100 ft
0	0.00	0.00		0.00	0.00	0.00	0.00	<< TIE-IN POINT >>		
252	0.50	0.00	252	252.00	0.00	1.10	0.00	0.20	0.20	0.00
335	0.50	0.00	83	334.99	1.82	1.82	0.00	0.00	0.00	0.00
837	0.75	0.00	502	836.96	7.30	7.30	0.00	0.05	0.05	0.00
1,326	1.25	0.00	489	1,325.89	15.83	15.83	0.00	0.10	0.10	0.00
1,829	2.25	0.00	503	1,828.65	31.19	31.19	0.00	0.20	0.20	0.00
2,329	4.50	0.00	500	2,327.75	60.63	60.63	0.00	0.45	0.45	0.00
2,364	5.75	0.00	35	2,362.61	63.75	63.75	0.00	3.57	3.57	0.00
2,770	5.50	0.00	406	2,766.65	103.55	103.55	0.00	0.06	-0.06	0.00
2,928	5.00	0.00	158	2,923.99	118.01	118.01	0.00	0.32	-0.32	0.00
3,178	4.25	0.00	250	3,173.17	138.17	138.17	0.00	0.30	-0.30	0.00
3,667	4.00	0.00	489	3,660.90	173.34	173.34	0.00	0.05	-0.05	0.00
4,193	2.25	0.00	526	4,186.10	202.01	202.01	0.00	0.33	-0.33	0.00
4,693	2.50	0.00	500	4,685.67	222.73	222.73	0.00	0.05	0.05	0.00
5,190	1.75	0.00	497	5,182.33	241.16	241.16	0.00	0.15	-0.15	0.00
5,685	2.00	0.00	495	5,677.06	257.36	257.36	0.00	0.05	0.05	0.00
6,166	1.50	0.00	481	6,157.84	272.05	272.05	0.00	0.10	-0.10	0.00
6,419	0.75	0.00	253	6,410.79	277.01	277.01	0.00	0.30	-0.30	0.00

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