



MARBOB ENERGY CORPORATION  
SHOWSTOPPER 7 FEDERAL COM. NO. 1H  
EDDY COUNTY, NEW MEXICO

A.P.I. NUMBER : 30-015-36559  
FIELD : Willow Lake Bone Spring  
LOCATION: 330' FNL, 480' FEL,

FILE NO. : MD-44314  
DATE : July 21, 2009  
ANALYSTS : WH, SB, JR

Section 7, T-25-S, R-29-E

**DEAN STARK EXTRACTION**

| SAMPLE NO. | DEPTH<br>ft | GRAIN<br>DENSITY | POR<br>% | PERM<br>mD | SATURATIONS<br>Sw | GAS<br>So | FLUORESCENCE<br>UNITS | %  | LITHOLOGY                                                |
|------------|-------------|------------------|----------|------------|-------------------|-----------|-----------------------|----|----------------------------------------------------------|
| 1          | 5082.0      | 2.64             | 13.4     | 1.975      | 32.2              | 16.1      | 291                   | 90 | Ss opaq-tn-gy vf-fgr sbrnd-sbang ssly                    |
| 2          | 5459.0      | 2.64             | 11.7     | 2.364      | 29.8              | 15.4      | 19                    | 0  | Ss opaq-gy vf-fgr sbrnd-sbang ssly                       |
| 3          | 6239.0      | 2.65             | 11.1     | 0.113      | 32.7              | 14.6      | 333                   | 90 | Ss opaq-tn-gy vf-fgr sbrnd-sbang mod-ssly                |
| 4          | 6316.0      | 2.65             | 11.8     | 0.224      | 28.4              | 13.5      | 357                   | 90 | Ss opaq-tn-gy vf-fgr sbrnd-sbang mod-ssly                |
| 5          | 6377.0      | 2.63             | 13.5     | 1.414      | 33.2              | 13.6      | 255                   | 90 | Ss opaq-tn-gy vf-fgr sbrnd-sbang mod-ssly sc slty intrbd |
| 6          | 6866.0      | 2.54             | 6.9      | <.0001     | 24.6              | 0.0       | 698                   | 0  | Sh dk gy-blk slty scalc lrg pyr lam                      |
| 7          | 6867.0      | 2.63             | 4.2      | <.0001     | 21.9              | 0.0       | 678                   | 0  | Sh dk gy-blk slty calc                                   |
| 8          | 6946.0      | 2.62             | 5.4      | <.0001     | 59.0              | 0.0       | 701                   | 0  | Sh dk gy-blk slty                                        |
| 9          | 6947.0      | 2.56             | 6.8      | <.0001     | 56.9              | 0.0       | 710                   | 0  | Sh dk gy-blk slty tr pyr                                 |
| 10         | 7002.0      | 2.59             | 6.0      | <.0001     | 53.9              | 0.0       | 707                   | 0  | Sh dk gy-blk slty tr pyr                                 |
| 11         | 7003.0      | 2.54             | 6.4      | <.0001     | 55.9              | 0.0       | 712                   | 0  | Sh dk gy-blk slty tr pyr                                 |
| 12         | 7094.0      | 2.51             | 4.2      | <.0001     | 33.5              | 0.0       | 715                   | 0  | Sh dk gy-blk slty tr pyr                                 |
| 13         | 7095.0      | 2.46             | 6.4      | <.0001     | 35.2              | 0.0       | 712                   | 0  | Sh dk gy-blk slty calc fd frac tr pyr                    |
| 14         | 7150.0      | 2.48             | 6.3      | <.0001     | 54.8              | 0.0       | 715                   | 0  | Sh dk gy-blk slty                                        |
| 15         | 7151.0      | 2.44             | 7.1      | <.0001     | 43.2              | 0.0       | 717                   | 0  | Sh dk gy-blk slty tr pyr                                 |
| 16         | 7222.0      | 2.44             | 5.1      | <.0001     | 42.1              | 0.0       | 712                   | 0  | Sh dk gy-blk slty calc fd frac                           |
| 17         | 7223.0      | 2.49             | 6.0      | 0.010      | 39.1              | 0.0       | 720                   | 0  | Sh dk gy-blk slty calc fd frac                           |

Avalon  
Shale