

LEASE DESCRIPTION: Oltenjenbruns 843-7-33  
LOCATION: 1730' FSL & 2630' FEL, NWSE Section 7-T8N-R43W  
COUNTY: Phillips STATE: **Colorado** API #: 05-095-06301-00

Black Raven Energy  
ELEV: 3708' GR  
FIELD: UNNAMED

**12/07/11:** MIRU SCHAAL DRILLING CO. PREVIOUS 24 HRS - SPUD SURFACE@7:00 A.M. ON 12/06/11. 9 7/8" HOLE DRILLED 0' TO 470' TD@1:00 P.M. CIRC. TOO H. RAN 12 JTS OF 7", 17# CSG MEAS 453.05'. SET@465.05'. CMT W/100 SKS OF TYPE 1 NEAT CMT. CIRC 7 BBL TO PIT. PLUG DOWN@2:30 P.M. ON 12/06/11. RDMO. SHALE @ 315'

EDC: \$4984

**12/09/11:** MIRU ADT #144. NIPPLE UP B.O.P. ASSEMBLE BHA. MIX MUD. DRILL OUT CMT PLUG. SPUD @ 8:00 P.M. ON 12/08/11. DRILL FROM 465' TO 2656'. TD @ 2656' @ 6:00 A.M. CIRC. POOH. LAY DOWN BHA. RIG UP PSI. RAN TRIPLE COMBO LOGS. LOGGER TD @ 2656'. TOP 2444'. BTM 2484'. AV. 1.5, MAX 1.5, 35% PEROSITY, 24' ZONE. RDMO PSI. TIH TO P&A, RIG UP CMTRS. 1<sup>ST</sup> PLUG 35 SKS 2400' TO 2200', 2<sup>ND</sup> PLUG 35 SKS 565' TO 390', 3<sup>RD</sup> PLUG 10 SKS 50' TO 4'. **RELEASE RIG** @ 4:30 AM. RDMO RIG # 144.

SURVEYS:

500' - .56  
1000' - .30  
1500' - 1.27  
2000' - 2.39  
2500' - 1.44

ECD: \$56,499