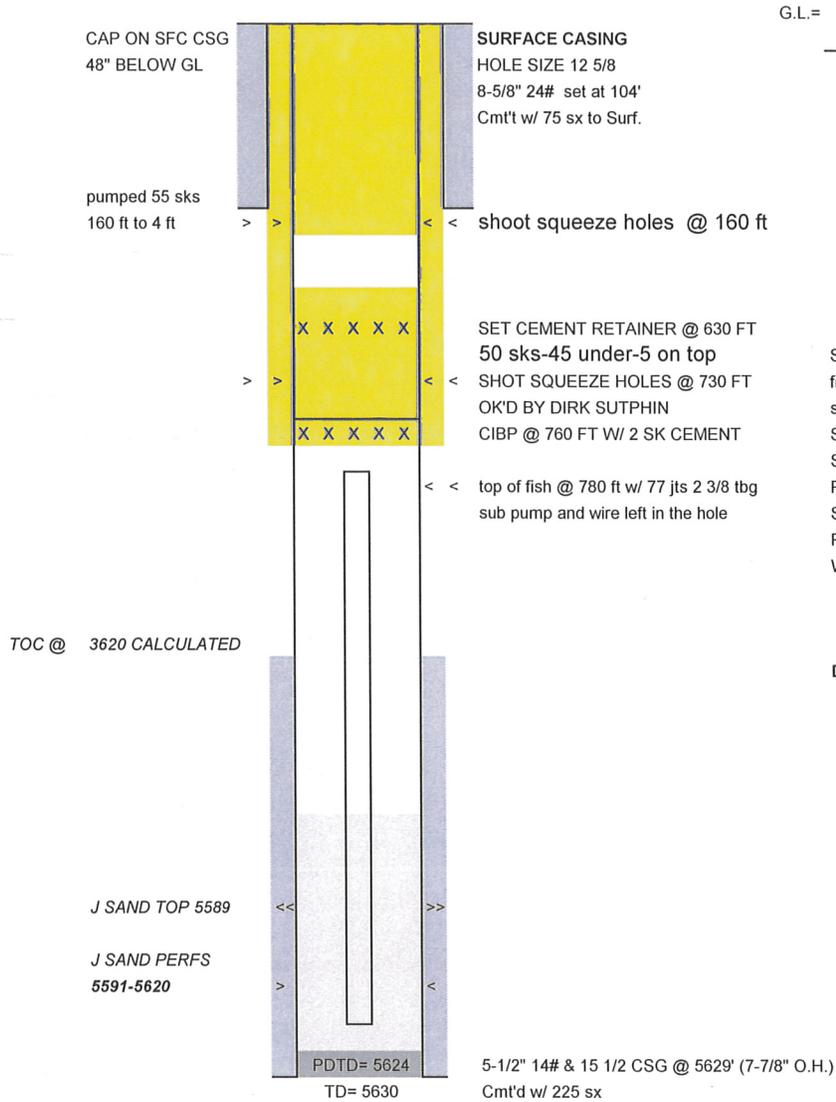


**WELLBORE DIAGRAM AS PLUGGED**

**Black Raven Energy Inc.**  
**HOUGH, RM # A-4**  
 NWSW Section 7, Township 1N, Range 57W  
 Footages 1633 FSL 952 FWL  
 County MORGAN: State: COLORADO  
 API :05-087-05362



G.L.= 0  
 0  
 0

Formation tops	
Niobrara	4686
Greenhorn	5187
D-Sand	5525
J-Sand	5589

**PLUGGING OPERATIONS**

Submersible pump & wire and 77 jts 2 3/8 tbg stuck in the hole  
 free point and cut tbg off @ 780 ft  
 set CIBP @ 760 FT W/ 2 SK CEMENT ON TOP  
 SHOOT SQ HOLES @ 730 FT  
 SET CMT RETAINER @ 630 FT  
 PUMP 50 SK CMT W/ 45 UNDER & 5 ON TOP  
 SHOOT SQ HOLES @ 160 FT  
 PUMP 55 SK CMT FROM 160 TO 4 FT  
 Weld on cap @ 4 ft

Date	Perforation History		status
	top	btm	
4/2/1954	5591	5620	