

MARALEX RESOURCES, INC.

Operator # 53255

As Plugged

WELL NAME South Shale Ridge 9-17 (312606)
LOCATION NESE Section 17 T8S R98W 6 PM
GPS 39.355793 -108.343310 **PDOP** 2.3
GPS OPERATOR M. Nastal **DATE** 11/8/2010

FIELD South Shale Ridge
COUNTY Mesa
API # 05-077-08610
FORMATION Cameo Coal

CASING

SURFACE

SIZE & WT 8 5/8" 24#
SET @ 120'
HOLE SIZE 12 1/4"
CEMENT
 115 sxs Class B w/3% CaCl
TOC @ surface (calculated)

PRODUCTION

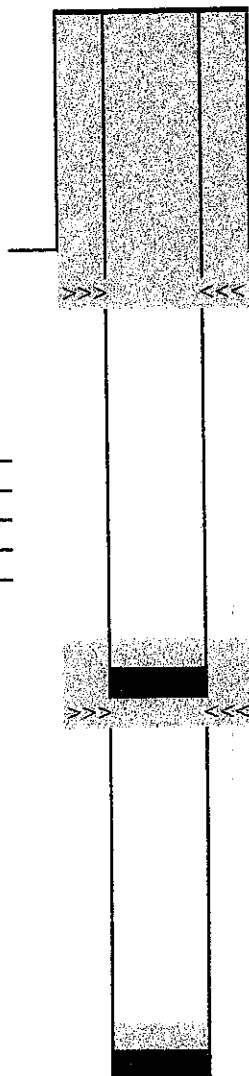
SIZE & WT 4 1/2" 11.6#
SET @ 4015'
HOLE SIZE 7 7/8"
CEMENT Lead: 180 sxs
 Thixotropic 10-0 w/10#/sx Gilsonite
 Tail: 400 sxs Highbond 50 w/ 2% CaCl
TOC @ 2940' (CBL)

PERFORATIONS

3606'-3882' 29 holes

FORMATION TOPS

Watsach Surface
 Mesa Verde 1484'
 Cameo Coal 3605'
 Rollins 3884'



Casing cut-off 4' below GL. Marker plate installed 8/1/18

8 5/8" @ 120'

Squeeze perfs @ 170'

8/1/18 - 4 1/2" casing cement at surface. Pumped a total of 81 sxs Type II cement down annulus in 3 stages. 1st stage of 40 sxs w/ 3% CaCl - TOC 130'. 2nd stage of 35 sxs w/ 2% CaCl - TOC 12'. 3rd stage 6 sxs neat Type II - cement at surface & standing full. Cement from 170' to surface inside and outside.

10/11/17 pumped 8 bbls of bentonite (400 lbs) slurry down surface casing - displace to 175'

10/16/17 pumped 40 sxs Class B+3% CaCl+LCM/47.2 ft³/15.5 ppg down 4 1/2" casing. Locked up at 500 psig with 27 sxs (31.8 ft³) pumped through squeeze perfs and 13 sxs (15.3 ft³) inside 4 1/2" casing

CICR @ 1420' TOC @ 1340'

30 sxs B/35.4 ft³/15.3 ppg 80' of cement on top and 53' below CICR with 105' in 4 1/2" X 7 7/8" annulus

Squeeze perfs @ 1473'

TOC @ 2940' (CBL)

CIBP @ 3560'/16 sxs B/8.8 ft³/15.4 ppg/TOC at 3343' (tbg tag)

Perforations 3606'-3882'

29 holes

4 1/2" @ 4015'

PBTD 3980'

TOTAL DEPTH 4015'