

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

GRAND MESA OPERATING CO.

WELL: HUND #3-9
LOC.: 2119' FNL & 1773' FWL
SEC. 9-14-31W
GOVE COUNTY, KANSAS
API: 15-063-21924-00-00

DRILLING CONTR.: MURFIN RIG #24
SPUD: 07-06-11 COMP: 07-16-11
MUD UP: 3500' TYPE MUD: CHEM.
DRILL TIME: 3600'-RTD
RTD: 4710' LTD: 4711'
SAMPLES SAVED: 3800'-RTD
GEOLOGIST: ROBERT J. PETERSEN

ELEVATION
KB: 2937'
GL: 2932'
LOG MEASURED FROM: KB

SURFACE CASING
New 23# 8 5/8" surface csg.,
Set @ 222' KB,
Cemented w/165sx
Common, 3% CC, 2% Gel

PRODUCTION CASING
D & A

WELL LOG SURVEYS
DIL/CDL w/micro

ELECTRIC LOG TOPS

Formation	Depth	Dipm	Hund 1-9	Hund 2-9
SL	2119	.1		
BSC	2441	.99	5	-6
HEEB	3951	-1014	5	4
TOR	3971	-1014	4	4
LANS	3991	-1054	1	4
Muncie Cr	4147	-1210	2	6
Stark	4241	-1304	0	3
Shope	4255	-1348	1	5
Hushpuckney	4278	-1341	-1	4
Hertha	4294	-1357	-4	2
BIG	4313	-1378	-3	1
Marmaton	4348	-1411	1	5
Altamont	4389	-1452	-1	7
Little Osage	4435	-1528	-2	1
Excello	4487	-1620	-1	4
Johnson	4565	-1628	-4	0
Morrow	4588	-1651	-7	-2
Miss	4617	-1680	13	7



REFERENCE WELL:

WELL A:
GRAND MESA
HUND 4-1-9
KB 2951'
1482' FSL & 1873' FWL
9-14-31W

WELL B:
GRAND MESA
HUND 4-1-9
KB 2936'
977' FSL & 2188' FWL
9-14-31W

REMARKS AND RECOMMENDATIONS

Due to the negative drill stem test results this test was plugged and abandoned by the operator.

Respectfully submitted,
Robert J. Petersen

DAILY REPORT

@7:00 A.M.

7-6-11 MIRU, SPUD
 7-7-11 545'
 7-8-11 2480'
 7-9-11 3481'
 7-10-11 3860'
 7-11-11 4155'
 7-12-11 4265'
 7-13-11 4485'
 7-14-11 4574'
 7-15-11 4600'
 7-16-11 4710'

