

23-16-21W

DRILLERS' LOG

COMPANY: Hess Oil Company WELL: Skaggs #1  
 CONTRACTOR: Mallard Drilling API#: 15-135-23, 106  
 P. O. Box 1009 LOCATION: N2 NE SE  
 McPherson KS 67460  
 COMMENCED: May 14, 1987 Sec. 23, Twp. 16S, Rge. 21W  
 COMPLETED: May 22, 1987 COUNTY: Ness  
 TOTAL DEPTH: 4210' ELEVATION: 2234' G. L.  
2242' K. B.

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<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>
Soil, Shale	0'	969'
Sand	969'	1513'
Anhydrite	1513'	1536'
Shale	1536'	3194'
Shale, Lime	3194'	3933'
Lansing, Pawnee	3933'	4072'
Lime	4072'	4210' R.T.D. Miss-Osage

REMARKS:

Cut 12 1/4" hole to 235' and ran 5 joints new 8 5/8" X 20# X 220.95' surface casing. Set at 230.45' and cemented with 150 sacks 60/40 poz mix, 3% cc, 2% gel. Cement did circulate. P.D. @ 5:25 a.m. on 5/16/87.

Ran electric log and 1 DST.

Plugged hole with 200 sacks 60/40 poz mix, 6% gel as follows:  
 50 sacks @ 1551'  
 70 sacks @ 1197'  
 40 sacks @ 260'  
 10 sacks @ 40'  
 15 sacks rathole  
 10 sacks mousehole  
 P.D. @ 6:30 a.m. 5/22/87

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STATE OF KANSAS )  
 ) SS:  
 COUNTY OF McPHERSON)

I, BRYAN HESS of MALLARD DRILLING, do hereby certify that this is a true and correct copy of the log of the Skaggs #1 well as reflected by the files of Mallard Drilling.