



Operator

DESIGNATE TYPE OF COMP.: OIL, GAS,  
DRY HOLE, SWDW, ETC.:

Graham-Michaelis Corporation

Well No.

1-5

Lease Name

Hilgers

DRY HOLE

S 5 T 10 S R 18 E W

NE SW NE; Rooks County, Kansas

## WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN,  
OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Surface clay and shale	0	265	Petro-Log Radiation Guard Log	
Shale & sand	265	1569		
Anhydrite	1569	1605		
Shale & sand	1605	1719		
Sand & shale	1719	2102		
Shale	2102	2414		
Sand and shale	2414	2713		
Lime and shale	2713	3071		
Shale and lime	3071	3376		
Lime	3376	3430		
Lime and shale	3430	3480		
Lime	3480	3568		
Shale and lime	3568	3618		
Lime	3618	3758		
Rotary total depth		3758		

DRILL STEM TESTS: DST #1 - 3150-3180/90". Rec. 310' very slightly oil cut water.IFP: 52-73/30"; FFP: 102-168/60"; ISIP: 1081/45"; FSIP: 1071/90". DST #2 - 3360-3430/60"Rec: 15' mud. IFP: 80-50/30"; FFP: 86-51/30"; ISIP: 424/30"; FSIP: 295/30". DST #3 - 3428-3505/90". Rec: 450' muddy water w/specks of oil in the tool. IFP: 88-153/30"; FFP:195-256/60"; ISIP: 573/45"; FSIP: 559/90". DST #4 3515-3568/60". Rec: 15' mud. IFP: 59-45/30FFP: 59-53/30"; ISIP: 74/30"; FSIP: 70/30". DST #5 - 3569-3625/60". Rec: 15' mud. IFP:61-53/30"; FFP: 53-53/30"; ISIP: 56/30"; FSIP: 53/30". DST #6 - 3618-3650/60". Rec:10' mud. IFP: 61-53/30"; FFP: 53-53/30"; ISIP: 56#/30"; FSIP: 53#/30". DST #7 - 3715-3730/90"Rec: 15' oil cut mud; 120' slightly oil cut mud; 1 cup free oil in top of tool. IFP:38-18/30"; FFP: 47-68/60"; ISIP: 167#/45"; FSIP: 165/90". DST #8 - 3715-3759' (packer failureDST #9 - 3682-3759/90". Rec: 2110' muddy salt water; IFP: 102-553/30"; FFP: 583-949/60";ISIP: 1122#/45"; FSIP: 1112#/90".

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received

Muriel F.C. Jeram  
Signature

Geological Secretary

Title

October 16, 1979

Date

b9EUL

late *Geological Survey*  
WICHITA BRANCH

15-163-20964  
5-10-18W

CONTRACTOR'S WELL LOG

OPERATOR:

CONTRACTOR:

WELL NAME:

LOCATION:

SPUD DATE:

COMPLETION DATE:

~~W.R.Y.~~  
Hilgers-Michaelis Corporation  
Abercrombie Drilling, Inc.  
Hilgers #1-5  
NE, Section 5-10-18W  
Rooks County, Kansas  
September 10, 1979  
September 21, 1979

0	265	Surface clay and shale
265	1569	Shale and sand
1569	1605	Anhydrite
1605	1719	Shale and sand
1719	2102	Sand and shale
2102	2414	Shale
2414	2713	Sand and shale
2713	3071	Lime and shale
3071	3376	Shale and lime
3376	3430	Lime
3430	3480	Lime and shale
3480	3568	Lime
3568	3618	Shale and lime
3618	3758	Lime
	3758	Rotary Total Depth

Spud hole at 2:30 p.m., September 10, 1979. Drilled 265' of 12 $\frac{1}{4}$ " hole. Ran 6 joints of 8-5/8" - 24# casing. Set at 260.23' with 150 sacks of common cement, 3% Ca.Cl., 2% gel. Cement did circulate. Plug was down at 2:30 a.m., September 11, 1979.

T.D. 3758'. Set 1st plug at 790' with 70 sacks, 2nd plug at 250' with 20 sacks, 3rd plug at 40' solid bridge with 10 sacks, rat hole with 5 sacks. Cemented with 50/50 posmix, 6% gel. Plug was down at 6:30 a.m., September 21, 1979.

SAMPLE TOPS:

Anhydrite 1569'  
B/Anhydrite 1605'

STATE OF KANSAS )  
                  ) ss  
COUNTY OF SEDGWICK )

Jack L. Partridge, Assistant Secretary-Treasurer of Abercrombie Drilling, Inc., does hereby state that the above and foregoing is a true and correct copy of the log of the Hilgers #1-5, NE, Section 5-10-18W, Rooks County,