

Operator Name Viking Well No. 69231

Sec. 13 Twp. 9 Rge. 28 ☐ East ☒ West County Sheridan

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken ☒ Yes ☐ No
Samples Sent to Geological Survey ☒ Yes ☐ No
Cores Taken ☐ Yes ☒ No

Formation Description
☐ Log ☒ Sample

DST #1, 3847-3884, 30-45-60-45, Rec. 30' GIP, 30' MCO,
60' O&MCW, 60' SO&MCW, 300' SW, BHP: 1136/1038
FP: 109/141 218/251, HP: 1997/1987, BHT: 108°
DST #2, 3934-4065, 30-45-15-45, Rec. 45' M, BHP: 940/
864, FP: 141/141 141/141, HP: 2191/2181, BHT: 110°

Name	Top	Bottom
Anhydrite	2301 (+399)	
B. Anhydrite	2336 (+364)	
Topeka	3587 (-887)	
Heebner	3798 (-1098)	
Toronto	3817 (-1117)	
Lansing	3834 (-1134)	
BKC	4060 (-1360)	
RTD	4065 (-1365)	

CASING RECORD ☒ New ☐ Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12 1/4	8-5/8	20	227	60/40 noz	170	3% cc, 2% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run ☐ Yes ☐ No			
Size		Set At		Packer at			
Date of First Production		Producing Method					
		☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☐ Perforation
☐ Sold ☐ Other (Specify)
☐ Used on Lease ☐ Dually Completed
☐ Commingled

Mallard JV, Inc.
P.O. Box 1009
McPherson, KS 67460

DRILLERS' LOG

OPERATOR: Viking Resources
120 S. Market, Suite 518
Wichita, KS 67202-3819

WELL: Herl #1

API#: 15-179-20,928

COMMENCED: July 29, 1988

LOCATION: E2 NE SE

COMPLETED: August 6, 1988

1980 Ft. FSL, 330 Ft. FEL

TOTAL DEPTH: 4065 Ft.

Sec. 13 Twp. 9 S Rge. 28 W

ELEVATION: 2692 Ft. G.L.

COUNTY: Sheridan

2700 Ft. K.B.

<u>FORMATION</u>	<u>FROM</u>	<u>TO</u>
Surface	0'	230'
Shale, Sand	230	2301
Anhydrite	2301	2336
Shale	2336	3238
Shale, Lime	3238	4065 R.T.D. Lansing

REMARKS

Cut 12 $\frac{1}{4}$ " hole to 230' and ran 5 joints new 8-5/8" x 217.40' surface casing.
Set at 226.9' and cemented with 170 sacks 60/40 Pozmix, 2% gel, 3% cc. Cement
did circulate. P.D. @ 10:15 p.m.

Ran 2 DST's.

Plugged hole with 200 sacks 60/40 Pozmix, 6% gel as follows:

20 sx @ 2310'
100 sx @ 1425' and 2 sx celloflake
40 sx @ 275'
10 sx @ 40' with wiper plug
R.H. w/15 sx, M.H. w/15 sx. P.D. @ 1:00 a.m. 8-6-88.

RECEIVED
STATE CORPORATION COMMISSION

SEP - 1 1988

CONSERVATION DIVISION
Wichita, Kansas

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 Herl #1
well as reflected by the files of Mallard Drilling.

Bryan Hess
Bryan Hess, Gen. Mgr.

Subscribed and sworn to before me this 15th day of
August, 1988.

11-15-89
My Commission Expires

Don J. Reichenberger
Notary Public

