

Operator Name **Viking Resources** Lease Name **Redr**

Sec. **16** Twp. **9** Rge. **27** 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

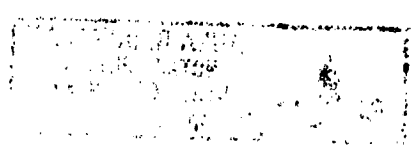
DST #1, 3852-3888, 30-45-30-45, Rec. 240' MSW, 1050' SW, FP: 98/371 435/578, BHP: 1093/1090, HP: 1964 1910
 DST #2, 3901-3925, 30-30-30-30, Rec. 20' M, FP: 24/24 24/24, BHP: 914/842, HP: 1975/1899

Name	Top	Bottom
Anhydrite	2332 (+410)	
B. Anhydrite	2367 (+375)	
Heebner	3848 (-1106)	
Toronto	3871 (-1129)	
Lansing	3890 (-1148)	
Stark	3972 (-1330)	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	Shanks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	20	219	60/40 port	140	2% gel, 3% cc
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
TUBING RECORD Size Set At Packer at				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method					
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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

15-179-20944-00-00

DRILLERS' LOG

OPERATOR: VIKING RESOURCES
120 S. Market, Suite 518
Wichita, KS 67202-3819

WELL: Popp #1

API#: 15-179-20,944

COMMENCED: June 12, 1989

LOCATION: 110' S of N/2 N/2 NW

COMPLETED: June 18, 1989

4840 Ft. FSL, 3960 Ft. FEL

TOTAL DEPTH: 4096 Ft.

SEC. 16 TWP. 9 S RGE. 27 W

ELEVATION: 2734 Ft. G.L.

COUNTY: Sheridan

2742 Ft. K.B.

REMARKS

Cut 12 1/4" hole to 224' and ran 5 joints 8-5/8" x 20# x 209.04' surface casing. Set at 218.54' and cemented with 140 sacks 60/40 Pozmix, 3% cc, 2% gel. P.D. @ 7:00 p.m. 6-12-89.

Ran 2 DSTs. Kansas City R.T.D. @ 4096'.

Plugged hole with 205 sacks 60/40 Pozmix, 6% gel, 3% cc, as follows:

- 25 sx @ 2370'
- 100 sx @ 1490' and 1 sx Floseal
- 40 sx @ 260'
- 10 sx @ 40'
- 15 sx R.H., 15 sx M.H. P.D. @ 5:00 a.m. 6-18-89.

RECEIVED
STATE CORPORATION COMMISSION

JUL 18 1989

CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS)
COUNTY OF MCPHERSON) SS:

I, BRYAN HESS of MALLARD JV, INC. hereby certify that this is a true and correct copy of the log of the POPP #1 well as reflected by the files of Mallard JV, Inc.

Bryan Hess
BRYAN HESS, General Mgr.

Subscribed and sworn to before me this 23rd day of June, 1989.

11-15-89
My Appt. Exp



Don I. Reichenberger
NOTARY PUBLIC