

Computer Inventoried

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KCC

DEC 20 1993

DANIEL F. FREDLUND
WELLSITE SUPERVISION
GEOLOGIST

Mach Petroleum
#1 Sale
API# 15-095-21681

NE NE SW
Section 14; T27S-R10W
Kingman County, KS

Contractor:	White & Ellis Rig 8
Commenced:	August 17, 1993
Completed:	August 27, 1993
Elevations:	1751 KB 1746 GL
Measurements:	All from KB
Casing Record:	Surface: 8 5/8 @ 219'
	Production: None
Samples:	Saved from 1500-1700, 2300-2500, 2800-RTD
Drilling Time:	From 1500-1700, 2300-2500, 2800-RTD
Gas Detector:	None
Electric Log:	HLS - CND, DIL & CORAL
Formation Testing:	3

FORMATION

ELECTRIC LOG DEPTH

SUB SEA DATUM

Herrington	1597	+ 154
Indian Cave	2374	- 623
Howard	2816	-1065
Topeka	2964	-1213
Heebner	3318	-1567
Lansing	3517	-1766
Stark	3797	-2046
Hushpuckney	3827	-2076
BKC	3895	-2144
Cherokee	3986	-2235
Mississippi	4014	-2263
Kinderhook	4092	-2341
Viola	4283	-2532
Simpson	4374	-2623
RTD	4435	
LTD	4433	

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MAJOR SHOWS:

Mississippian 4014 - 4034
Chert, fresh white milky fossiliferous, blocky bladed dense fracture porosity with dead black oil on fracture faces. Chert fresh weathered pinpoint porosity with live free oil in porosity. Chert tripolitic white-tan tripolitic porosity excellent show lite brown free oil. Good odor and good show gas bubbles.

VIOLA 4284 - 93
Chert fresh gray white fractured blocky bladed with fracture porosity with pyrite on fractured faces. Dolomite white-tan-brown fine sucrosic to medium crystalline with tripolitic and good intercrystalline porosity good show gas and lite brown free oil and odor. Condemned by DST #2.

DRILL STEM TESTS:

#1 Mississippian 3980 - 4032 45-45-60-60 GTS SIP
FFP 5" 5.320 MCFG
15" 5.320 "
25" 5.320 "
35" 5.320 "
45" 5.185 "
Recovery 45' mud with slight show of oil Temp 113°
FP's 42-52 / 63-63
SIP's 115 - 115
HP's 1895 - 1874

#2 Viola 4276 - 4297 45-45-60-60 GTS FFP 25"
Recovery 2500' fluid
FFP 30" 1.83 MCFGPD 60' clean gassy oil (41 1/2°)
40" 1.78 " 60' SOCMW (17%G, 8%O, 30%M, 45%W)
45" 1.83 " 120" SOCMW (10%G 5%O 30%M 55% W)
50" 1.59 " 1260' VSOCW (1% O, 99% W)
55" 1.59 " 1000' Water (less than 1% O 68000 chlorides at 119°)
FP's 55-607 / 651 - 958
SIP's 1035 - 1035
HP's 2143 - 2077

#3 Mississippian 3980 - 4050 60-60-60-60
Recovery 185' Total Fluid
65' mud FP's 111-144/144-167
60' MW tr. oil (oil-tr. 58%M, SIP's 711 - 612
42%W)
60 VSOCM (± 1/2% O, 50% M, 50% W) HP's 2002 - 1980
Temp 117°
Chlorides 28,000

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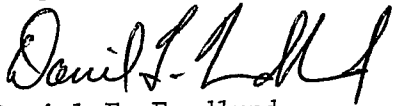
REMARKS:

Several shallow zones in the #1 Sale, the Herrington, Lansing, and the Simpson had minor shows of oil.

The Viola had a good show of oil and gas in the samples but was determined to be wet based on E-log evaluations and DST #2.

The Mississippian had an excellent show of oil and gas in the samples. E-log calculations showed a 45% SW. DST #1 showed no permeability and no reservoir pressure. DST #3 showed low permeability. Therefore, based on the low permeability of the Mississippian as seen on DST #1 and DST #3, the well is recommended to be plugged and abandoned.

Respectfully Submitted,



Daniel F. Fredlund
Geologist