

15-007-22024

Released

MARINER RESOURCES  
330 S. Main  
Wichita, Kansas 67202  
April 22, 1985

**CONFIDENTIAL**

Southwest Operating, Inc. / Mariner Resources  
10880 Wilshire Blvd., Suite 1205  
Los Angeles, California 90024

JUN 03 1985  
State Geological Survey  
WICHITA BRANCH

RE: Southwest Operating, Inc. / Mariner Resources  
#14-1 LAKE  
C SE NW -14-31S-14W  
Barber County, Kansas

AUG 15 1985  
KANSAS GEOLOGICAL SURVEY  
WICHITA BRANCH

Sirs:

Submitted herewith is the geological report concerning the above captioned test. Data pertinent to the operation are tabulated below:

Spud: 4-02-85	Rotary Complete: 4-13-85
Contractor: Mohawk Drilling	Elevation: Laughlin-Simmons
Surface Pipe: 8 5/8" at 840'	Production Pipe: NONE
Drill Time: 2300' to T.D.	Samples: 2550' to T.D.
DST: Western Testing (7)	Cores: None
Mud: Maverick Mud	Log: Schlumberger (DIL-SFL-GR, CNL-CDT, NGT, EPT-GR, ML-GR, LSS-GR)

Geological formation tops as picked from samples and corrected to the open hole survey follow. All measurements are from the Kelly Bushing elevation.

Elevations: 1604' G.L.                      1614' K.B.

Indian Cave Sand	2684	(-1070)
Emporia	2968	(-1354)
Heebner	3584	(-1970)
Lower Douglas Sand	3724	(-2110)
Brown Lime	3759	(-2145)
Lansing	3770	(-2156)
Mississippi	4278	(-2664)
Maquoketa (Viola)	4354	(-2740)
Simpson Shale	4484	(-2870)
Arbuckle	4574	(-2760)
Total Depth	4615	(-3001)

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4-31-14W

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DST #1 - 2668-2700 Indian Cave

30 - 60 - 30 - 60

Strong blow throughout.

Rec: 750' gas in pipe.  
150' gassy mud.  
300' saltwater (110,000 CL)

SIP - 1039 - 1018#  
IFP - 83 - 124#  
FFP - 208 - 228#  
HP - 1246 - 1225#  
BHT - 102 degrees F.

DST #2 3515-3532 Oread

30 - 60 - 45 - 90

Strong blow throughout.

Rec: 2820' saltwater.

SIP - 1506 - 1506#  
IFP - 312 - 987#  
FFP - 1091 - 1433#  
HP - 1873 - 1821#  
BHT - 118 degrees F.

DST #3 3723-3728 Lower Douglas Sand

30 - 60 - 45 - 90

Weak to light blow - both opens.

Rec: 385' saltwater - (121,000 CL).

SIP - 1402 - 1438#  
IFP - 0 - 52#  
FFP - 135 - 187#  
HP - 1926 - 1873#  
BHT - 122 degrees F.

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DST #4 4195-4254 Marmaton

30 - 30 - 30 - 30

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Very weak blow died 15" first open.

Rec.: 15' mud.

SIP - 52 - 52#  
IFP - 52 - 52#  
FFP - 52 - 52#  
HP - 2240 - 2135#  
BHT - 120 Degrees F.

DST #5 4278-4336 Mississippian

30 - 30 - 30 - 30

Very weak blow died 20" first open.

Rec.: 5' mud

SIP - 52 - 52#  
IFP - 52 - 52#  
FFP - 52 - 52#  
HP - 2323 - 2292#  
BHT - 122 degrees F.

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DST #6 4352-4380 Maquoketa (Viola)

30 - 60 - 45 - 90

Weak to fair blow - first open, strong blow - second open.

Rec.: 600' gas in pipe  
5' free oil (33 gravity)  
20' froggy oil (HOCM) (50% oil, 20% gas, 30% mud)

SIP - 260 - 364#  
IFP - 83 - 72#  
FFP - 52 - 52#  
HP - 2397 - 2344#  
BHT - 124 Degrees F.

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7-31-140

DST #7 4470-4515 Simpson Sand

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30 - 60 - 45 - 90

Strong blow throughout.

Rec.: 180' slight oil specked watery mud.  
660' saltwater (68,000 CL)

SIP - 1485 - 1485#  
IFP - 104 - 239#  
FFP - 312 - 416#  
HP - 2449 - 2292#  
BHT - 138 degrees F.

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