

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 9697
Name Southwest Operating, Inc
Address City Plaza West, Suite 515
5310 E. 31st St.
City/State/Zip Tulsa, OK 74135

Purchaser... None

Operator Contact Person R. A. Christensen
Phone 316-267-8006

Contractor: License # 6394
Name Mohawk Drilling, Inc.

Wellsite Geologist Mel Hussey
Phone 316-267-8006

Designate Type of Completion
 New Well- Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

4-2-85 4-13-85 NA
Spud Date Date Reached TD Completion Date
4615' NA
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 836 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...feet
If alternate 2 completion, cement circulated
from...feet depth to...w/...SX cmt

API NO. 15-007-22,024-0000
County Barber
C SE NW Sec 14 Twp 31 Rge 14 East West

3300 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

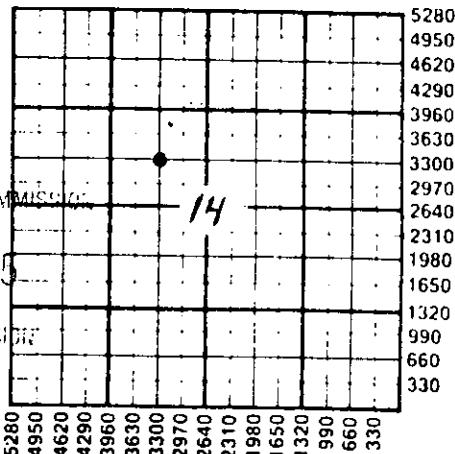
Lease Name Lake Well # 14-1

Field Name WC

Producing Formation None

Elevation: Ground 1604' KB 1614'

Section Plat



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Wichita, Kansas

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # T 85-396

Groundwater 3600 Ft North from Southeast Corner
(Well) 3300 Ft West from Southeast Corner of
Sec 14 Twp 31 Rge 14 East West

Surface Water...Ft North from Southeast Corner
(Stream, pond etc)...Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain).....
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]
Title Exploration Manager Date 5-1-85

Subscribed and sworn to before me this 23rd day of May 1985
Notary Public [Signature]
Date Commission Expires 7-3-88

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Sec 14 Twp 31 Rge 14

Operator Name Southwest Operating, Inc. Lease Name Lake Well # 14-1

Sec. 14 Twp. 31 Rge. 14 East West County Barber

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

See Attached Sheets

Name Top Bottom

See Attached Sheets

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FROM CONFIDENTIAL

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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	#Sacks Used	Type and Percent Additives
Conductor (U)	20"	13 3/8"	50#	42'	60/40 Poz	100	2% Gel 3% CC
Surface (N)	12 1/2"	8 5/8"	24#	836'	Light Class A	300	3% CC
					Class A	100	2% Gel 3% CC
					Class A	50	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated		Depth
	NA	NA	

TUBING RECORD	Size	Set At	Packer at	Liner Run
	NA			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First Production	Producing Method				
NA	<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
	NA	NA	NA	NA	NA
	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

14-1

15-007-22024-0000

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

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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 - 4-31S-14W
Barber County, Kansas

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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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.

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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 (HOEM) (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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Wichita, Kansas

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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State Geological Survey
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