

H. C. HOPKINS
PETROLEUM GEOLOGIST
8801 MAPLE DRIVE
OVERLAND PARK, KANSAS 66207
913-648-5439

ORIGINAL

15-165-21373

Silver Creek Oil & Gas, Inc.
Holopirek 2-B
SW-NE-NW Sec. 28-18S-17W
Rush County, Kansas

Elevation: 1971 RB
1968 DF
1966 GL

Spudded: February 9, 1987

Surface Casing: 8 5/8" (24# Used) set at 915 feet with 375 sacks
of 60/40 Pozmix, 3% CaCl₂

Electric Survey: WELEX

Guard Sidewall Neutron, Linear Neutron-Density
Porosity, Computer Analyzed Logs

Drilling Contractor: H-30 Drilling, Inc., Rig No. 2

Rotary Total Depth: 3970 feet

SAMPLE ANALYSIS REPORT

One (1') foot drilling time and ten (10') foot samples were kept from 3200 feet to rotary total depth. Five (5') foot samples were kept during the drilling of potential zones of production.

The following data was compiled from sample analysis, drill stem tests, time log, and electric log correlation and interpretation. All tops and zones of porosity are corrected to rotary bushing measurements.

Samples were examined from 3200 feet to rotary total depth. The well was under geological supervision from 3545 feet to rotary total depth of 3970 feet.

<u>FORMATION</u>	<u>SAMPLE</u>	<u>ELECTRIC</u>
Heebner	3307 (-1336)	3310 (-1339)
Toronto	3325 (-1354)	3326 (-1355)
Douglas	3342 (-1371)	3344 (-1373)
Lansing	3361 (-1390)	3362 (-1391)

Several zones of porosity were observed throughout the Lansing-Kansas City series. All the zones were barren.

Base of Kansas City	3604 (-1633)	3605 (-1334)
Conglomerate	3690 (-1719)	3686 (-1715)
Re-worked Arbuckle	3703 (-1732)	3704 (-1733)

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- 3704-3710 Chert, tan, oolitic, very poor scattered vugular porosity, black oil stain, thick sticky oil, no odor.
- 3711-3716 Dolomite, very fine crystalline, very cherty, trace very poor crystalline porosity, light tan stain, trace of free oil, no odor.

DRILL STEM TEST NO. 1: (Superior Testers)

Packer set at 3711 feet, total depth 3715 feet, 4 feet of anchor. Test interval in minutes: 20-30-20-30. Initial flow-weak blow building very slowly. Final flow-very weak blow, dead in 3 to 4 minutes. Recovered: 12 feet of drilling mud with oil spots in testing tool. Temp: 103°

IFP 21#-21# ICIP 939# FFP 21#-21# FCIP 939#

- 3716-3722 Chert, white, sharp, slightly tripolitic, slightly oolitic, good pinpoint and vugular porosity, fair to good stain, fair show free oil, no odor.
- 3722-3732 Chert, white, very slightly dolomitic, fair to good pinpoint and vugular porosity, black dead asphalt stain, dolomite streaks with light stain, fair show free oil.
- 3732-3740 Chert, white, sharp, slightly tripolitic, good fracture porosity, scattered vugular porosity, trace black asphalt stain, trace light stain, trace of free oil.

DRILL STEM TEST NO. 2: (Superior Testers)

Packer set at 3717 feet, total depth 3740 feet, 22 feet of anchor. Test interval in minutes: 30-45-30-45. Initial flow-weak blow building very slowly. Final flow-very weak blow. Recovered: 25 feet of drilling mud. Temp: 105°

IFP 53#-53# ICIP 1173# FFP 53#-53# FCIP 1067#

- 3752-3757 Sandstone, white-clear, fine grained, semi-rounded, cherty, trace inter-grained porosity, no show.
- 3770-3777 Dolomite, white, very sandy, sucocic, fair crystalline porosity, no show.

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Arbuckle	3793 (-1822)	3794 (-1823)
3794-3833	Dolomite, gray, fine-medium crystalline, very slightly cherty, no visible porosity, no show.	
3833-3844	Dolomite, gray, medium crystalline, trace crystalline porosity, no show.	
3844-3870	Dolomite, tan-gray, fine crystalline, trace of chert, no visible porosity, no show.	
3870-3970	Dolomite, drilled deeper, no sample analysis.	

COMMENTS AND RECOMMENDATIONS

The Silver Creek Oil & Gas, Inc. Holopirek 2-B test well encountered a chert section from 3704 to 3794 feet. This section is described as a re-worked Arbuckle and contained a fair to good show of oil from 3704 to 3746 feet.

Structurally, this section of chert is not present in the surrounding control wells and was encountered where the normal Arbuckle formation should have been present.

The sample analysis, time log and electric log interpretation, drill stem tests, and structural position of the test well warrant further testing. The following zone should be evaluated on the correlation log and tested through production casing:

3704-3740

There is no history in the area upon which to anticipate the results of further testing. The test well was drilled 170 feet into the Arbuckle and prepared for the completion as a saltwater disposal well.

The production casing, 5½" 14.5#, was set at 3800 feet and cemented with 75 sacks of Pozmix.

Respectfully submitted,

H. C. Hopkins
H. C. Hopkins
Geologist

JUL 23 1987

TICKET NUMBER 349239
45M

ORIGINAL

DATE 2-16-87
30M

45M
30M
15M

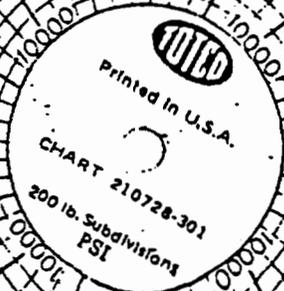
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TRUCK NO.

STATE OF MONTANA DIVISION

LEASE # Halopirek



15-165-21373

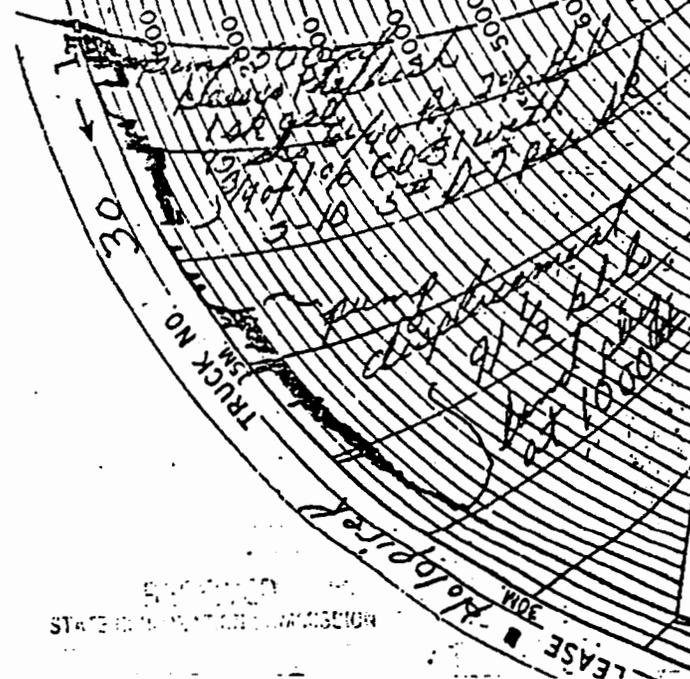
Silver Creek Oil & Gas
COMPANY

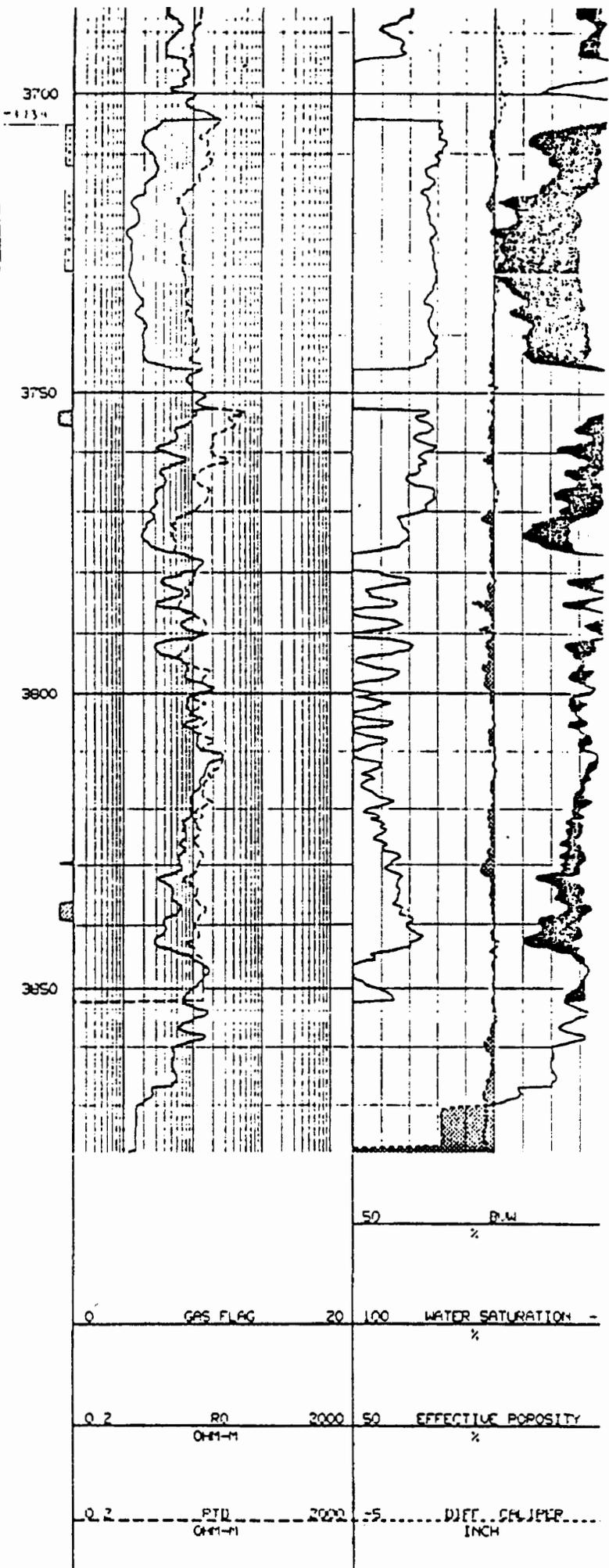
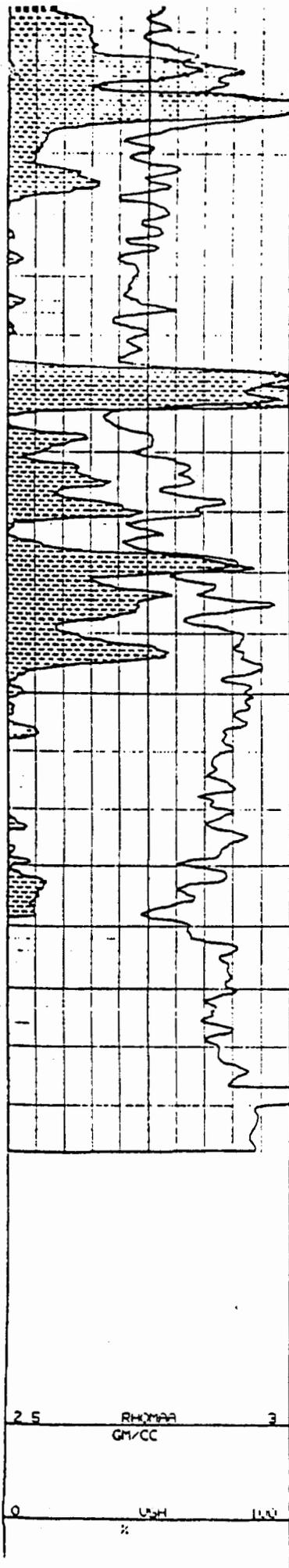
Halopirek B-2
LEASE WELL NO.

TREATMENT NO. STATION

TYPE TREATMENT

MATERIAL USED
M. D. L. [Signature]
SERVICE ENGR. (SIGNATURE)





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