

4-25-8w

Computer Inventoried

BEAR PETROLEUM

LOCKE A 1

FINAL GEOLOGICAL WELL REPORT

PREPARED BY:

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GEOLOGIST:

JIM HALL

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1.1 SUMMARY SHEET

Well Name: locke A 1
Classification: Wildcat
Operator: Bear Petroleum
State: Kansas
County: Reno
Acreage: NE/4 SEC. 04-T25S-R8W
Location: 330' FNL, 1,407' FEL SEC. 04-T25S-R8W Reno
County, Kansas
Elevations: KB: 1,626 feet
GL: 1,621 feet
Spud Date: Dec. 19, 1995
T.D. Date: January 02, 1995
Rig Release: January 02, 1995 (1330 Hrs.)
Total Depth: Driller: 3,850' RKB (7 7/8" hole)
Logger: 3,850' LKB
Casing Shoes: 8 5/8" at 287 feet RKB (12 1/4" hole)
Hole Size: 12 1/4" from surface to 287' RKB
(driller) 7 7/8" from 287' to 3,850' RKB
Status: Plugged and Abandoned

GEOLOGIC RESULTS

The Lansing - Kansas City began at a depth of 3,214' and ended at 3,612'. Most of this large carbonate sequence consisted of quiet marine Mudstones. The only show in the Lansing - KC occurred in the lower Hertha between 3,584 and 3,586'. This thin regressive sequence is a Packstone with visible porosity and light brown free oil. This show was not tested because of it's noncommercial size.

The next oil show was observed in the lower Pennsylvanian Fort Scott. The Fort Scott is a regressive Mudstone and the show occurred in a small area at the top of a 12' porosity section, However the lack of a commercial show and high water saturations on the E-log indicates this to be non-productive.

The Mississippi (Osage) Chert came in at a depth of 3,772'. The upper Chert was weathered and had visible porosity and live oil shows. The percentage of sample show was very low and decreasing with depth and at approximately 3,800' the remaining Chert was fresh (non-weathered) and lacked reservoir quality. The upper 25' of the Chert was tested after evaluation of the E-logs, with only mud and water being recovered from a good quality reservoir.

CONCLUSION

The Locke A1 was drilled to evaluate the productive potential of the upper Hertha found on the Ghormley and Schmidt leases just to the south of the location. The Hertha productive interval was found to be absent at our location and the structural position was 18' low to the predicted top.

The Mississippi (Osage) Chert was a secondary potential pay if the Hertha was not developed, however it to was 13' low to the lowest Osage producing well in Sec. 3, therefore placing the Locke A1 below the lowest known oil water contact.

WELLSITE GEOLOGIST

Jim Hall, Consulting Geologist, was responsible for all geological operations on the well and worked in close coordination with the drilling crew and Mr. Randy Voth, during drilling operations.

ENGINEERING PERSONNEL

All engineering decisions were made by Mr. Voth during all drilling and testing operations.

OPEN-HOLE WIRELINE LOGGING SERVICES

Log Tech Logging Services performed all the wireline logging services on the well, using Service Unit 4 Hays Kansas. Mr. Drylie was the logging engineer and operated the unit during logging.

DRILLSTEM TESTING SERVICES

One open hole drillstem test was done, using Western Testers out of Pratt, Kansas.

DST #1 was run to evaluate scattered free oil shows through the interval anticipated to be a secondary objective (Osage) (3,775' - 3,800'). The tool was opened for a total of 75 min, opening with a strong blow during the first and second period. A total of 240' of mud and 760' of salt water was recovered. The tool was shut in for 150 min to evaluate bottom hole pressures. The charts indicated good transmissibility.

IH: 1974#

IF: 117/193#

ISI: 1,069#

FF: 301/409#

FSI: 1,048#

FH: 1952#

BHT: 120 F