

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 # 5533  
Name Arrowhead Petroleum, Inc.  
Address P.O. Box 8287 - Munger Station  
City/State/Zip Wichita, Kansas 67208

Purchaser.....

Operator Contact Person Wm. Todd Seymour  
Phone (316) 681-3921

Contractor: License # 5381  
Name Big Springs Drilling, Inc.

Wellsite Geologist Wm. Todd Seymour  
Phone (316) 681-3921

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)  
If ONWO: old well info as follows:

Operator.....  
Well Name.....  
Comp. Date.....Old Total Depth.....

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
1-13-86 1-15-86 1-15-86  
Spud Date Date Reached TD Completion Date  
2460' PBSD  
Total Depth

Amount of Surface Pipe Set and Cemented at 285' feet  
Multiple Stage Cementing Collar Used? Yes No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated from 0 feet depth to 285 w/ 160 SX cmt  
Cement Company Name Halliburton  
Invoice # 401082

API NO. 15-179 - 20,857-00-00  
County Sheridan  
NE NE NE 1 9S 28W East  
..... Sec..... Twp.....Rge..... X West

4950'  
330' Ft North from Southeast Corner of Section  
..... Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

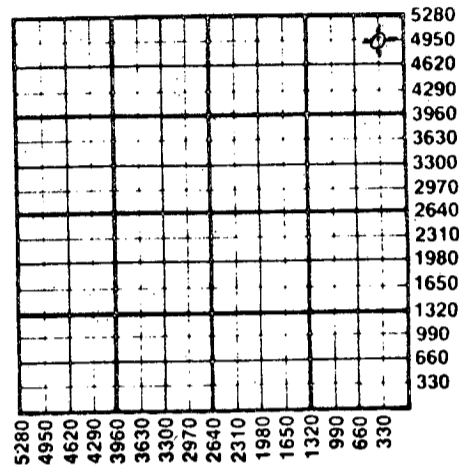
Lease Name Herl Well # 1

Field Name.....

Producing Formation.....

Elevation: Ground 2654' KB 2659'

Section Plat



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: Water Well T 86 - 35  
Division of Water Resources Permit #.....

Groundwater 4950' Ft North from Southeast Corner  
(Well) 330' Ft West from Southeast Corner of  
Sec 1 Twp 9 Rge 28W East West

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

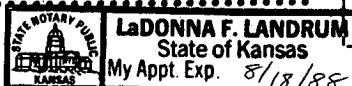
Other (explain).....  
(purchased from city, R.W.D. #)

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 Paul A. Seymour, III  
Title Vice-President Date 1-24-86

Subscribed and sworn to before me this 24th day of January 1986  
Notary Public LaDonna F. Landrum  
Date Commission Expires August 18, 1988



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

Form ACO-1 (7-84)  
RECEIVED  
STATE CORPORATION COMMISSION  
01-29-1986  
JAN 29 1986

Sec. 1 Twp. 9 Rge. 28W

Arrowhead Petroleum, Inc.

Herl

1

Operator Name ..... Lease Name..... Well #.....

1 9S 28W [ ] East [ ] West Sheridan County.....

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 [X] No
Samples Sent to Geological Survey [ ] Yes [ ] No
Cores Taken [ ] Yes [ ] No

Formation Description [ ] Log [ ] Sample

Name Top Bottom

Log run to check top & base of Anhydrite Section.

Top 2289'
Base 2323'

CASING RECORD [X] New [ ] 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
Surface 12 1/4" 8 5/8" 20# 285' 60-40 POZ 160SX 2% gel 3%cc1
PERFORATION RECORD
Shots Per Foot Specify Footage of Each Interval Perforated Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
TUBING RECORD Size Set At Packer at Liner Run [ ] Yes [ ] No
Date of First Production Producing Method [ ] Flowing [ ] Pumping [ ] Gas Lift [ ] Other (explain)
Estimated Production Per 24 Hours Oil Gas Water Gas-Oil Ratio Gravity
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

