

Operator Name Hixon Development Company Lease Name..... Adams Ranch Well #..... F-38

Sec..... 4 Twp..... 35S Rge..... 29 East West County..... Meade

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

| Name | Top | Bottom |
|---------------|-------|--------|
| Council Grove | 2938' | |
| Heebner | 4360' | |
| Toronto | 4414' | |
| Lansing | 4520' | |
| Kansas City | 5051' | |
| Novinger | 5302' | |

NOV 17 1990
 OIL & GAS DIVISION
 STATE OF KANSAS

CASING RECORD 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" | 24# | 1511.07' | Light | 570 | 2% CaCl ₂ & 1/4#/sk. |
| Production | 7-7/8" | 5-1/2" | 15.5# | 5466.44' | Class H | 250 | cellophane flakes |
| | | | | KB | Class H | 200 | 2% CaCl ₂ & 1/4#/sk. cellophane flakes |

| Shots Per Foot | Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|----------------|---|--|-------|
| 4 | 5052' - 5060', 5130' - 5150' | Acidized with 500 bbls 15% HCL acid | |

| TUBING RECORD | Size | Set At | Packer at | Liner Run | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|--------|--------|-----------|-----------|---|
| | 2-3/8" | 5089' | | | |

| Date of First Production | Producing Method |
|--------------------------|--|
| 4-7-90 | <input checked="" 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 |
|-----------------------------------|---------|--------|---------|---------------|---------|
| | 70 Bbls | 20 MCF | 23 Bbls | 286 CFPB | 39 |

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation 5052'-5060'
 Sold Other (Specify)
 Used on Lease Dually Completed 5130'-5150'
 Commingled

** DRILLERS LOG **

Adams Well No. F-38
Sec. 4-35S-29W
Meade Co., KS

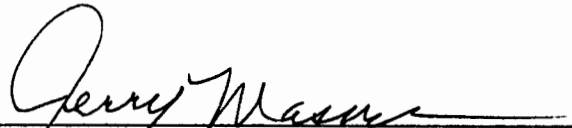
Run 35 jts of 8-5/8" Casing
set at 1515' Cement W/570sx
Halliburton Lt.+1/4 #Flo Seal
+2%CC, Follow W/150sx Class H
+ 1/4# Flo Seal +2%CC Follow
W/100sx Class H Three 1" Pipe

Operator: Hixon Development
Contractor: Sage Drilling Co., Inc.
Commenced: 03/9/90
Completed: 03/21/90

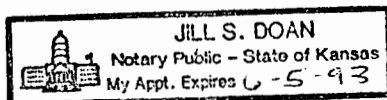
RTD: 5470'

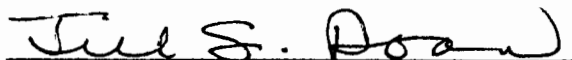
| FORMATION: | FROM | TO | REMARKS: |
|--------------|-------|-------|--|
| Sand/Clay | 75' | 350' | |
| Red Bed/Sand | 350' | 920' | |
| Red Bed | 920' | 1515' | |
| Shale | 1515' | 1910' | |
| Lime/Shale | 1910' | 2515' | |
| Shale | 2515' | 2720' | |
| Lime/Shale | 2720' | 3165' | |
| Shale | 3165' | 3380' | |
| Lime/shale | 3380' | 5470' | TD Run 126 jts. 5-1/2" Csg. Set @ 5468' Cement W/100sx Lite + 2% CC Follow W/200sx Class H |

I certify that this is a true and correct copy of the log on the above well to the best of my knowledge.


Jerry Mason/Vice President

Subscribed and sworn before me this 26th day of March, 1990.




Jill S. Doan/Notary Public

My Commission Expires: June 5, 1993