

COPY

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 30451  
Name: KanMap, Inc.  
Address 2101 W. Maple  
Independence  
City/State/Zip Kansas 67301

Purchaser: Cherokee Methane Corp.  
Operator Contact Person: Vance K. Cain  
Phone (316) 331-3140

Contractor: Name: MOKAT Drilling  
License: 05831

Wellsite Geologist: Vance K. Cain

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SVD  S10W  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_  
\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SVD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBTB  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SVD or Inj?) Docket No. \_\_\_\_\_  
10-19-96 10-21-96 2-28-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 125-29,919  
County Montgomery  
NW NW SW Sec. 20 Twp. 33S Rge. 16E  
2310 Feet from (S)N (circle one) Line of Section  
4950 Feet from (E)W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, (SE) NW or SW (circle one)  
Lease Name Block Well # 12-20  
Field Name Jefferson-Sycamore  
Producing Formation Weir+Riverton Coals  
Elevation: Ground 822' KB \_\_\_\_\_  
Total Depth \_\_\_\_\_ 1195' PBTB 1193'  
Amount of Surface Pipe Set and Cemented at \_\_\_\_\_ 20 Feet  
Multiple Stage Cementing Collar Used? \_\_\_\_\_ Yes No N  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1181  
feet depth to Surface w/ 149 \_\_\_\_\_ ex cmt  
Drilling Fluid Management Plan ALT 2 JZ 7-10-97  
(Data must be collected from the Reserve Pit)  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbl  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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 Vance K. Cain  
Title President Date 2-27-97  
Subscribed and sworn to before me this 27<sup>th</sup> day of February, 19 97.  
Notary Public Karen S. Marshall KAREN S. MARSHALL  
Notary Public  
Date Commission Expires 4-30-1999 State of Kansas

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C \_\_\_\_\_ Geologist Report Received  
Distribution  
 KCC \_\_\_\_\_ SVD/Rep \_\_\_\_\_ KCPA  
\_\_\_\_\_ KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other   
(Specify) IS

Operator Name KanMap, Inc.  
 Sec. 20 Twp. 33S Rge. 16E

Lease Name Block Well # 12-30  
 County Montgomery  
23742

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 or hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheets if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run: Dual Comp. Porosity  
 Dual Induction  
 Sonic Cement Bond

| Name           | Top  | Datum |
|----------------|------|-------|
| Pawnee Ls      | 568  | +254  |
| Ft Scott Ls    | 670  | +152  |
| Mulky Coal     | 736  | +86   |
| Weir Coal      | 916  | -94   |
| Riverton Coal  | 1158 | -336  |
| Mississippi Ls | 1170 | -348  |

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           | 11"               | 8.625"                    |                 | 20'           | Portland       | 8            | None                                 |
| Production        | 6.750"            | 4.500"                    | 9.5             | 1195'         | 50/50Poz       | 149          | 3 sx Gel<br>1 sx FloSe<br>15sx Gilso |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose:   | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|--|------------------|----------------|-------------|----------------------------|
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |             |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) |
|----------------|--|--|
| 4              | 915-919  | Frac w/160 sx 20/40 sand<br>400 bbl city water                                 |
| 4              | 1154-1158  | Frac w/215 sx 20/40 sand<br>480 bbl city wtr                                   |

TUBING RECORD Size 2.375" Set At 1181' Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 2-28-97 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil \_\_\_\_\_ Bbls. Gas 5 Mcf Water 40 Bbls. Gas-Oil Ratio \_\_\_\_\_

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Conmingled  
 Production Interval 915'-919'  
1154'-1158'