

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

API NO. 15-065-22,493-50-50

County.....Graham  
100 S of  
SW NW SE ..... Sec. 12. Twp. 7S. Rge. 21W X West

Operator: License # 4767  
Name Ritchie Exploration, Inc.  
Address 125 N. Market, Suite 1000  
City/State/Zip Wichita, KS 67202

1550 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser Koch Oil Company  
Wichita, KS

Lease Name Warren Well # 3

Operator Contact Person Jeff Christian  
Phone 316/267-4375

Field Name Ne Sage West

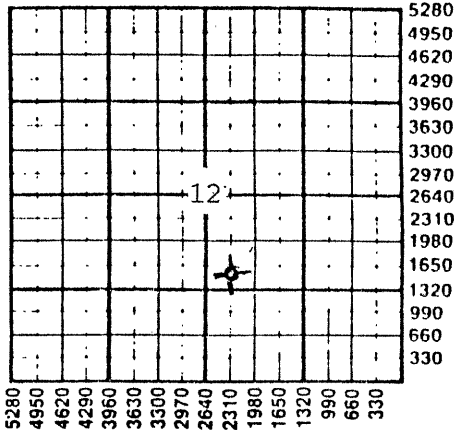
Producing Formation Lansing

Contractor: License # 6033  
Name Murfin Drilling Co.

Elevation: Ground 2125' KB 2130'

Wellsite Geologist Bob Mathiesen  
Phone 316/267-4375

Section Plat



PLEASE KEEP THIS INFORMATION CONFIDENTIAL

Designate Type of Completion  
X New Well Re-Entry Workover

RECEIVED STATE CORPORATION COMMISSION

X Oil SWD Temp Abd  
Gas Inj Delayed Comp.  
Dry Other (Core, Water Supply etc)

If OWNO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WATER SUPPLY INFORMATION  
Disposition of Produced Water: Disposal  
Docket # D-25,274 Repressuring

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable  
11/9/88 11/25/88 12/20/88  
Spud Date Date Reached TD Completion Date  
3660' 3606'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 213 feet  
Multiple Stage Cementing Collar Used? X Yes No  
If yes, show depth set 1721 feet  
If alternate 2 completion, cement circulated from 1721 feet depth to surface 320 SX cmt  
Cement Company Name Allied Cementing Co.  
Invoice # 53070

Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water: HAULED.  
Division of Water Resources Permit #  
Groundwater.....Ft North from Southeast Corner (Well) .....Ft West from Southeast Corner of Sec Twp Rge 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 triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 [Signature] Vice President  
Title..... Date 2-21-89

Subscribed and sworn to before me this 21<sup>st</sup> day of February 1989  
Notary Public Linda K. Rice

Date Commission Expires 6-7-92



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Drillers Timelog Received  
Distribution  
KCC SWD/Rep NGPA  
KGS Plug Other (Specify)  
2-27-89 4  
Form ACO-1 (5-86)

Sec. 12 Twp. 7 Rge. 21W

Operator Name Ritchie Exploration, Inc. Lease Name Warren Well # 3

Sec. 12 Twp. 7S Rge. 21W  East  West

County Graham

RELEASED

MAR 07 1990

3-7-90

FROM CONFIDENTIAL

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 |
|-------------|---------------|--------|
| Anhydrite   | 1713' (+ 417) |        |
| B/Anhydrite | 1746' (+ 384) |        |
| Topeka      | 3104' (- 974) |        |
| Heebner     | 3310' (-1180) |        |
| Toronto     | 3331' (-1201) |        |
| Lansing     | 3345' (-1215) |        |
| B/KC        | 3537' (-1407) |        |
| Arbuckle    | 3584' (-1454) |        |
| Granite     | 3646' (-1516) |        |
| LTD         | 3658' (-1528) |        |

DST #1 3308'-3366' (Toronto-Top zone). Rec. 1,240' gip & 186' mud cut oil (50% oil, 50% mud). IFP:47-76#/30"; ISIP:181#/30"; FFP:85-104#/30"; FSIP:181#/30".

DST #2 3368'-3414' (Lans. 35' & 50' zones). Rec. 1,426' gip; 110' free oil; 185' gassy mud cut oil. IFP:57-104#/30"; ISIP:276#/30"; FFP:124-133#/30"; FSIP:267#/30".

DST #3 3410'-3436' (70' & 90' zones). Rec. 310' gip; 5' free oil; 62' mud cut oil; 62' oil spotted watery mud; & 186' water. IFP:19-85#/30"; ISIP:381#/30"; FFP:114-143#/30"; FSIP:372#/30".

DST #4 3458'-3550' (140'-220' zones). Rec. 25' of very slightly oil cut mud (3% oil, 97% mud). IFP:15-50#/30"; ISIP:262#/30"; FFP:52-56#/30"; FSIP:164#/30".

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#            | 213'          | 60/40po        | 160         | 2% gel, 3% CC              |
| Production        | 7-7/8"            | 5 1/2"                    | 14.5#          | 1659'         | 60/40po        | 125         | 10% salt, 3% gilsonite     |
|                   |                   |                           |                |               |                | 10          | salt flush                 |

PERFORATION RECORD

| Shots Per Foot | Specify Footage of Each Interval Perforated                                 | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth                            |
|----------------|---|--|----------------------------------|
| 2 SSB          | 3609.5'-3614.5'   | 100 gal. of 15% INS  | 3609 1/2'-14 1/2'                |
| 2 SSB          | 3423'-3426'; 3400 1/2'-3403 1/2'; 3380'-3385'; 3346'-3350'; 3352 1/2'-3357' | 100 gal. of 28% acid & 500 gal. of 15% acid                                    | 3346'-3350'; 3352 1/2'-3357'     |
| Acidized w/    | 200 gal. 28% acid & 400 gal. of 15%   | 100 gal. 28% acid & 400 gal. 15%   | 3380'-3385'; 3400 1/2'-3403 1/2' |

TUBING RECORD

| Date of First Production | Producing Method   |
|--------------------------|--|
| 12/20/88                 | <input type="checkbox"/> Flowing <input checked="" 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 |
|-----------------------------------|---------|-----|---------|---------------|---------|
|                                   | 60 Bbls | Mcf | 40 Bbls | CFPB          |         |

METHOD OF COMPLETION

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) .....

Production Interval

3346'-50'; 3352 1/2'-3357'; 3380'-85';  
 3423'-26'; 3400 1/2'-03 1/2'

Dually Completed  Conmingled