

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 # 5673 & 3246
Name W.L. Kirkman, Inc. & JB Gas Detectors, Inc.
Address P. O. Box 801
City/State/Zip Pratt, Kansas 67124

Purchaser.....

Operator Contact Person W. K. Black
Phone 316-672-6910

Contractor: License # 5302
Name Red Tiger Drilling Company

Wellsite Geologist Ron Falwell
Phone 316-549-3963

Designate Type of Completion

- New Well Re-Entry Workover
- Oil SWD Temp Abd
- Gas Inj Delayed Comp.
- Dry Other (Core, Water Supply etc.)

If OWWO: old well info as follows:

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

WELL HISTORY

Drilling Method:

- Mud Rotary Air Rotary Cable

5/14/87 5/26/87 5/26/87
Spud Date Date Reached TD Completion Date
4,484'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 263 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt

API NO. 15-151-21,835-00-00
County Pratt
SW/4 SW/4 SW/4 11 28S 12W East
Sec.....Twp.....Rge..... West

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

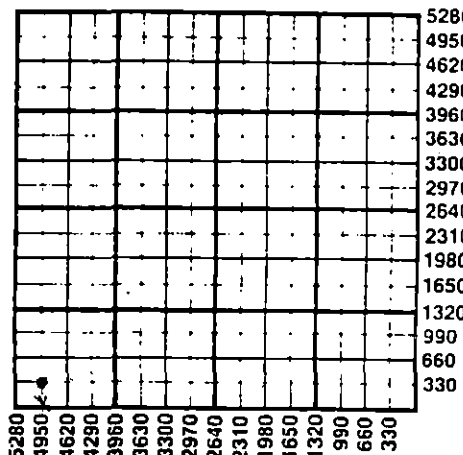
Lease Name Hillard "L" Well # 1

Field Name.....

Producing Formation.....

Elevation: Ground 1837 KB 1842

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:
Division of Water Resources Permit # T 87-171

Groundwater 400 Ft North from Southeast Corner
(Well 1) 4600 Ft West from Southeast Corner of
Sec 11 Twp 28S Rge 12 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 [Signature]
Title President, W. L. Kirkman, Inc. Date 7/14/87

Subscribed and sworn to before me this 14th day of July 1987
Notary Public Jane King [Signature]

Date Commission Expires 10/07/90

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
STATE CORPORATION COMMISSION (Specify)
10/25/90

JANE KING
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 10/07/90

COM. Form ACO-1 (7-84)
Wichita, Kansas

10-23-87

Sec 11, Twp 28N, Rge 12W

SIDE TWO

Operator Name W.L. Kirkman, Inc. & JB Gas Detectors, Inc. Lease Name Hillard "L" Well # 1

Sec. 11 Twp. 28S Rge. 12W East West County Pratt

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

4354-4361 Interval
 IFP - 11-11/30
 ISIP- 213/30
 FFP 11-11/30
 FSIP - 153/30
 IHH-FHH - 2199-2176

20' Mud- gas cut strong blow on both flow periods.

| Name | Top | Bottom |
|-------------------|------|--------|
| Heebner | 3530 | 1688 |
| Brown Lime | 3713 | 1871 |
| Lansing | 3726 | 1884 |
| Base Kans. City | 4100 | 2258 |
| Mississippi Chert | 4185 | 2343 |
| Kinderhook Shale | 4286 | 2444 |
| Viola | 4353 | 2511 |
| Simpson Shale | 4450 | 2608 |
| Simpson Sandstone | 4457 | 2615 |
| Arbuckle | DNP | |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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" | 23# | 269' | Common | 160 | 2% Gel 3%CC |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | (Amount and Kind of Material Used) | | | Depth |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD | | | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Date of First Production | Producing Method | | | | | | |
| | <input 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 | | |
| | 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

18-156-21835-00-00
 APPLICATION FOR TEMPORARY PERMIT

Rig #6 - Pratt Co
 JBGD - #1 Hillard L

Feed check \$100⁰⁰ 5-6-87
 T 87-171

- TO USE GROUNDWATER
 TO USE SURFACE WATER
 (check one)



THE STATE OF KANSAS

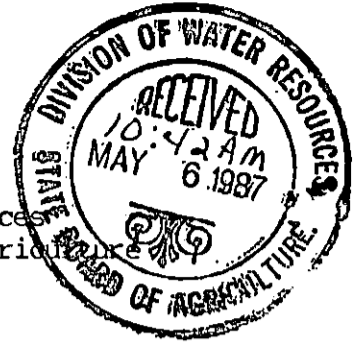
Area 2

GMD5

Submit To:

MAY 15 1987
 CONSERVATION DIVISION
 Wichita, Kansas

CHIEF ENGINEER-DIRECTOR
 Division of Water Resources
 Kansas State Board of Agriculture
 109 SW Ninth Street
 Topeka, KS 66612-1283



A STATUTORY FILING FEE OF \$100.00 MUST ACCOMPANY THIS APPLICATION
 (Make check payable to the Division of Water Resources.)

(1) APPLICANT

NAME Frontier Oil Co.
 STREET 125 N. Market, Ste. 1720
 RURAL ROUTE
 CITY Wichita, KS 67202
 (state) (zip)
 TELEPHONE NO 316-263-1201
 (area code)

(4) OWNER OF LAND UPON WHICH POINT OF DIVERSION IS LOCATED:

Lewis Hillard - R7D Pratt Co
 IF OTHER THAN APPLICANT, SUBMIT STATEMENT SHOWING OWNER'S PERMISSION TO INSTALL DIVERSION WORKS HAS BEEN OBTAINED.

Oil Gas lease

(2) LOCATION OF POINT OF DIVERSION

Sec. 11, Twp. 28, Rng. 12, (W),
 Pratt Co County, Kansas.

(5) WATER IS TO BE USED FOR:

Oil Field Drilling
 Oil Gas test well
 Rotary Rig
 (briefly describe proposed use)

DISTANCE FROM SOUTHEAST CORNER OF SECTION:

400 FT. NORTH FROM SOUTHEAST CORNER
 4600 FT. WEST FROM SOUTHEAST CORNER

(6) LOCATION OF PLACE OF USE:

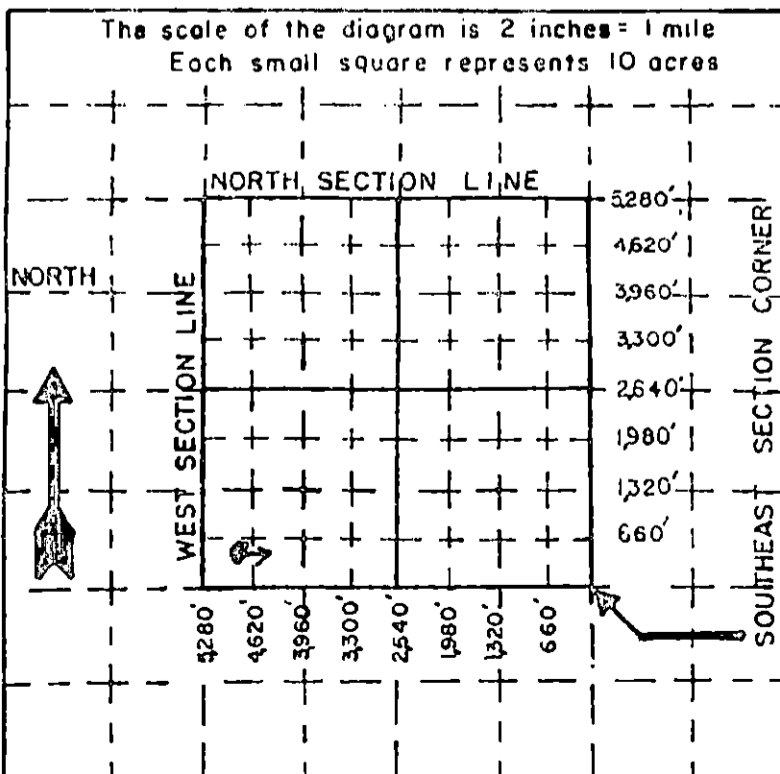
SW SW SW
 11-28-12
 Pratt Co

(3) WATER USE DATA

PROPOSED MAX. PUMPING RATE (gpm) 50
 AMOUNT REQUESTED (gallons) 2,500,000
 (not to exceed one million gallons)
 DEPTH OF WELL (feet) 75, or
 NAME OF STREAM NA

(7) PERIOD OF USE - (6 months max.)

5-9-87
 (commencing - date)
 6-9-87
 (ending date)



(8)

LOCATION OF THE PROPOSED POINT OF DIVERSION SHALL BE INDICATED ON THE DIAGRAM TO THE LEFT. USE THE CENTER SECTION.

IF SURFACE WATER, INDICATE ON THE DIAGRAM THE COURSE OF THE STREAM, AND ITS NAME.

well to be located as Feet description indicate in SE of the SW 1/4 of the SW 1/4 of sec 11 per Telephone call on May 6, 1987 Larry Sheets

(9) FOR GROUNDWATER USE, LIST BELOW ALL WELLS WITHIN 1/4 MILE OF THE PROPOSED WELL, AND PLOT LOCATIONS UPON THE DIAGRAM ON REVERSE SIDE. IF ADDITIONAL SPACE IS NEEDED, ATTACH SHEET.

OTHER WELLS -

Well A OWNER(S): None
ADDRESS : _____
Well B OWNER(S): _____
ADDRESS : _____
Well C OWNER(S): _____
ADDRESS : _____

(10) FOR SURFACE WATER USE, LIST BELOW THE NAMES AND ADDRESSES OF ALL LAND-OWNERS FROM A POINT ONE-HALF MILE UPSTREAM TO A POINT ONE-HALF MILE DOWNSTREAM OF THE TRACT OF LAND UPON WHICH THE POINT OF DIVERSION IS LOCATED. IF ADDITIONAL SPACE IS NEEDED, ATTACH SHEET.

TRACT A OWNER(S): _____
ADDRESS : _____
TRACT B OWNER(S): _____
ADDRESS : _____
TRACT C OWNER(S): _____
ADDRESS : _____

(11) THE APPLICANT STATES THAT THE INFORMATION SET HEREON IS TRUE AND ACCURATE TO THE BEST OF HIS/HER KNOWLEDGE.

SIGNATURE OF APPLICANT or Clyde Engel AUTHORIZED REPRESENTATIVE DATE 5-4-87
TITLE Mgr. Tank Sec
Manager

DO NOT WRITE BELOW THIS LINE

CONDITIONS OF APPROVAL:

THE APPLICANT SHALL MAINTAIN RECORDS FROM WHICH THE QUANTITY OF WATER ACTUALLY DIVERTED MAY BE READILY DETERMINED.

THE USE OF WATER HEREIN AUTHORIZED SHALL NOT IMPAIR ANY USE UNDER EXISTING WATER RIGHTS NOR PREJUDICALLY AND UNREASONABLY AFFECT THE PUBLIC INTEREST.

The point of diversion authorized by the approval of this application for temporary permit is more particularly described as being located in the Southeast Quarter of the Southwest Quarter of the Southwest Quarter (SE 1/4 SW 1/4 SW 1/4) of Section 11, Township 28 South, Range 12 West, Pratt County, Kansas.

APPLICATION APPROVED

PERMIT NUMBER T 87-171
DATE ISSUED May 6-87
EXPIRATION DATE June 9-87

Sue Ellis Hydrologist
for David L. Pope, P.E. Hydrologist
Chief Engineer - Director
Division of Water Resources
Kansas State Board of Agriculture