

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 # 3536
Name Ramco Energy Corporation
Address P.O. Box 99
City/State/Zip Belpre, Ohio 45714

Purchaser: Texaco

Operator Contact Person Dave Gocke
Phone (614) 423-9591

Contractor: License # 5418
Name Allen Drilling Company

Wellsite Geologist Scott Alberg
Phone (316) 672-5729

Designate Type of Completion
 New Well Re-Entry Workover

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

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

1/11/89 1/17/89 01/24/89
Spud Date Date Reached TD Completion Date

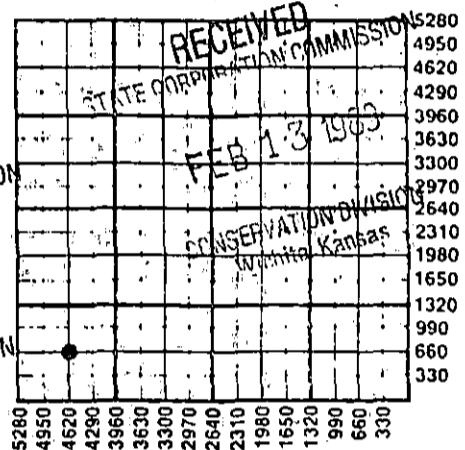
3970'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 340 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name
Invoice #

API NO. 15-155-21.117-0000
County Reno
C...SW...SW... Sec 33... Twp 25... Rge. 8... East West
660 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Melvin Minor Well #.4
Field Name ARLEDO
Producing Formation Mississippi
Elevation: Ground 1602' KB 1607'

Section Plat



RECEIVED STATE CORPORATION COMMISSION
1-30-89
JAN 30 1989
CONSERVATION DIVISION
Wichita, Kansas

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 #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec. Twp Rge. East West
1 mile north of location
 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]

Title Asst. VP Date 1-25-89

Subscribed and sworn to before me this day of 19

Notary Public James E. Blair

Date Commission Expires James E. Blair, Notary Public

State of West Virginia
My Commission Expires April 7, 1994

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
1-30-89

Sec 33 Twp 25 Rge 8 E

Operator Name **Ramco Energy Corporation** Lease Name **Melvin Minor** Well # **4**

Sec. **33** Twp. **25** Rge. **8** East West County **Reno** **RELEASED**

WELL LOG

MAR 0 7 1990

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all 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 | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Formation Description <input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|---|------|-----|--------|-----------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|---------|---------|-------|---------|------------|-------|---------|---------|-------|---------|------|-------|---------|----------------|-------|---------|-------------|-------|---------|------------|-------|---------|-----|-------|---------|
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cores Taken | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DST #1 | 3568'-3602' 30-60-30-60 IFP 37-175, ISIP 1388, FFP 175-268, FSIP 1370. Rec'd 120' GIP, 120' SGCM, 420' SW. | | <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Wabaunsee</td><td>2150'</td><td>(-543)</td></tr> <tr><td>Tarkio</td><td>2372'</td><td>(-765)</td></tr> <tr><td>Howard</td><td>2543'</td><td>(-936)</td></tr> <tr><td>Topeka</td><td>2679'</td><td>(-1072)</td></tr> <tr><td>Heebner</td><td>3048'</td><td>(-1441)</td></tr> <tr><td>Brown Lime</td><td>3228'</td><td>(-1621)</td></tr> <tr><td>Lansing</td><td>3257'</td><td>(-1650)</td></tr> <tr><td>B/KC</td><td>3632'</td><td>(-2025)</td></tr> <tr><td>Cherokee Shale</td><td>3755'</td><td>(-2148)</td></tr> <tr><td>Mississippi</td><td>3817'</td><td>(-2210)</td></tr> <tr><td>Kinderhook</td><td>3918'</td><td>(-2311)</td></tr> <tr><td>RTD</td><td>3970'</td><td>(-2363)</td></tr> </tbody> </table> | Name | Top | Bottom | Wabaunsee | 2150' | (-543) | Tarkio | 2372' | (-765) | Howard | 2543' | (-936) | Topeka | 2679' | (-1072) | Heebner | 3048' | (-1441) | Brown Lime | 3228' | (-1621) | Lansing | 3257' | (-1650) | B/KC | 3632' | (-2025) | Cherokee Shale | 3755' | (-2148) | Mississippi | 3817' | (-2210) | Kinderhook | 3918' | (-2311) | RTD | 3970' | (-2363) |
| Name | Top | Bottom | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Brown Lime | 3228' | (-1621) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lansing | 3257' | (-1650) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B/KC | 3632' | (-2025) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Kinderhook | 3918' | (-2311) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RTD | 3970' | (-2363) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DST #2 | 3818'-3832' Packer Failure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DST #3 | 3744'-3832' 30-60-30-60 Severe plugging - No pressures recorded. Rec'd 57' mud. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DST #4 | 3744'-3832' 30-60-30-60 IFP 663-732, ISIP 1452, FFP 754-1030, FSIP 1397. Rec'd GTS 17 mins. Stabilized at 23 mcf. 310' HGCM, 62' GOCM, 341' GMCO, 327' GOCW, 1054' GW w/ specs of oil, Chl 42,000 ppm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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" | 24# | 340' | 60/40 Poz | 195 | 2% gel; 3% cc |
| Production | 7-7/8" | 5-1/2" | 15.5# | 3969' | 50/50 Poz | 165 | 10% Salt .8% Halad |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | (Amount and Kind of Material Used) | | Depth | |
| 3 Shots | 3816'-3820' | | | 500 gals 15% DSFE acid | | | |
| TUBING RECORD | | | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| Size | | Set At | | Packer at | | | |
| 2-3/8" | | 3865' | | | | | |
| Date of First Production | | Producing Method | | | | | |
| 01/28/89 | | <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 | |
| 35 Bbls | | TSTM | MCF | 25 Bbls | CFPB | 35 | |

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 3816'-3820'
 Used on Lease Dually Completed
 Commingled