

SIDE ONE

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

Operator: License # 04824

Name: MESA OPERATING LIMITED PARTNERSHIP

Address P.O. BOX 2009

AMARILLO, TEXAS 79189

City/State/Zip _____

Purchaser: Mountain Iron

Operator Contact Person: W. RIDDLE

Phone 316) 356-3026

Contractor: Name: Service Drilling

License: 5987

Wellsite Geologist: None

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OAWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

7/1/90 7/4/90 7/20/90

Spud Date Date Reached TD Completion Date

API NO. 189-21,423-00-00

County Stevens

E/2: SE Sec. 15 Twp. 33 Rge. 39 East West

1350' Ft. North from Southeast Corner of Section

200' Ft. West from Southeast Corner of Section.
(NOTE: Locate well in section plat below.)

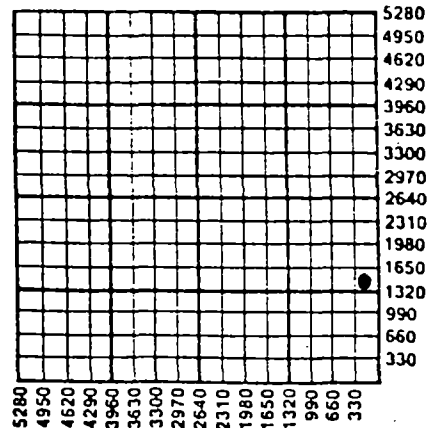
Lease Name CHRISTOPHER Well # 13-14

Field Name HUGOTON INFILL

Producing Formation CHASE

Elevation: Ground 3218' KB 3228'

Total Depth 2917' PBTD 2826'



Amount of Surface Pipe Set and Cemented at 612' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

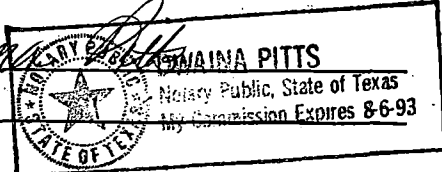
Signature Charles L. McKee Date 12/13/90

Title Sr. Regulatory Analyst Date 12/13/90

Subscribed and sworn to before me this 11th day of December, 19 90.

Notary Public MAINA PITTS

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
W Wireline Log Received
C Drillers Timelog Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

xc: KCC (0+2), Well File, Regulatory, Exploration, Land, Reservoir, Form ACO-1 (7-89)
C. Records, T. Hoefler (D&M), J. Harlan, K. Ratliff, Prod Acctg.

SIDE TWO

Operator Name MESA OPERATING LTD PARTNERSHIP Lease Name CHRISTOPHER Well # 13-14

Sec. 15 Twp. 33 Rge. 39 East County Stevens
 West

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
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

| Formation Description | | |
|-----------------------|---|---------------------------------|
| | <input checked="" type="checkbox"/> Log | <input type="checkbox"/> Sample |
| Name | Top | Bottom |
| Stone Corral | 1669' | |
| Wellington | 2238' | |
| Chase | 2452' | |
| Council Grove | 2783' | |

| 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# | 612' | H | 300 | 3% CaCl |
| Production | 7 7/8" | 5 1/2" | 15.5# | 2914' | H | 400 | 5% KCL |

| PERFORATION RECORD | | Acid, Fracture, Shot, Cement Squeeze Record | |
|--------------------|---|---|--------|
| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
| 1 JS/2' | 2452'-2706' | 5000 gals 15% HCL | 2452'- |
| | | 78,000 gals x-linked | 2706' |
| | | 250,000# 10/20 sand | |

| TUBING RECORD | Size | Set At | Packer At | Liner Run |
|---------------|------|--------|-----------|---|
| | NA | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

| | | | |
|-------------------------------------|--|-------------|---|
| Date of First Production 12/4/90 | Producing Method <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 Bbls. --- | Gas Mcf 698 | Water Bbls. --- Gas-Oil Ratio --- Gravity --- |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: 2452'-2706'

WESTERN PETROLEUM SERVICES

DATE 7-5-90 DISTRICT Pecaton OPERATOR Mesa WELL NAME & NUMBER Christopher 13-14 LOCATION: SEC. 15 BLOCK OR TOWNSHIP 33.8 SURVEY OR RANGE 39.4 COUNTY Stevens STATE Ks STAGE NUMBER 1 TYPE JOB Long string

ORIGINAL

CEMENTING REPORT

| TBG/DP: Size | Weight | Disp | Conductor | Surface | Int. | Prod. | Liner |
|-----------------------------|-----------|------|-----------|---------|------|-------|-------|
| Perforated Interval | | | | | | 5 1/2 | |
| Pkr. Type | Set at | | | | | 15.5 | |
| Open Hole Size <u>7 7/8</u> | Formation | | | | | 8 1/2 | |
| Stage Collar Type | Set at | | | | | 69.4 | |
| Estimated Wash Out % | | | | | | 2915' | |

| Sacks or Bbls. | Composition of Cement and Spacer | Gals/sk H2O | Weight Lb/Gal | Yield Ft 3 | Pump Time Hours | TOTAL Cu. Ft. | TOTAL Bbls. |
|----------------|---|-------------|---------------|------------|-----------------|---------------|-------------|
| 500 gal | WPMW-1 | | | | | | |
| 200.5v | H-1 5% Thriftlylite + 1/4% Collo Seal | 11.85 | 12.5 | 2.09 | | 418 | 74.6 |
| 200.3v | H-1 5% KCL + .7% AF-2 + 1/4% Collo Seal | 5.19 | 15.7 | 1.19 | | 938 | 42.5 |

Total Mix H2O 81.1 Bbls. Total Displacement 69.2 Bbls, Type 2% KCL + Chem Total Products 117.1 Bbls

| Time | Remarks | Rate | Pressure | |
|------|--|------|----------|-------------|
| | | | Tubing | Casing |
| 4:00 | | | | |
| 1:00 | Rig up to Cio. Hole | | | |
| 1:15 | Safety Meeting - Out line Job | | | |
| 1:36 | Press Test Lines | | | 1500 |
| 1:39 | Start WPMW-1 cement | 1.5 | | 200 |
| 1:44 | Mix + Pump Head Cement 74.6 BBL @ 12.5 | 5.5 | | 100 |
| 1:58 | Mix + Pump Tail Cement 42.5 BBL @ 15.7 | 4.0 | | 250 |
| 2:21 | Shut down - Wash lines - Dump Plug | | | 0 |
| 2:26 | Displace Cement w/67.2 BBL SHU + Chem | 5.5 | | 0 - 1100 |
| 2:42 | Bump Plug | 2.0 | | 1100 - 1600 |
| 2:43 | Check Print - OK | | | 1600 - 0 |

RECEIVED STATE CORPORATION COMMISSION

DEC 13 1990

CONSERVATION DIVISION Wichita, Kansas

Break Down At BPM At PSI
 Squeezed To PSI Running Hesitation
 Reversed out BBL Slurry at PSI
 Customer considered service Satisfactory
 Unsatisfactory

Max Pressure 1600 Differential Press. 1100
 Bumped Plug Yes No Pressure to 1600
 Cmt. Circ. to surface Sacks
 Float Held Yes No
 Shut in with PSI

Customer Rep: Frank Costrow

Service Supervisor James Roubes