FORM MUST BE TYPED

COPY

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 # 31836

Name: St. Mary Land & Exploration Co.

Address 1776 Lincoln St., Suite 1100

City/State/Zip Denver, CO 80203

Purchaser: KN Gas Gathering

Operator Contact Person: Bob Bachman

Phone (303) 863-4327

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist:

Designate Type of Completion
X New Well ___ Re-Entry ___ Workover

___ Oil ___ SWD ___ SIOW ___ Temp. Abd.
___ Gas ___ ENHR X SIGW
___ Dry ___ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: N/A

Well Name:

Comp. Date ___ Old Total Depth ___

___ Deepening ___ Re-perf. ___ Conv. to Inj/SWD
___ Plug Back ___ PBTD
___ Commingled Docket No. ___
___ Dual Completion Docket No. ___
___ Other (SWD or Inj?) Docket No. ___

07-22-97 07-25-97 ___
Spud Date Date Reached TD Completion Date

API NO. 15- 175-21, 646

County Seward

___ - NW - NW - SW Sec. 20 Twp. 32S Rge. 32 X E W

2290' 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 Wettstein Well # 1

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2832' KB 2837'

Total Depth 2750' PBTD 2717'

Amount of Surface Pipe Set and Cemented at 575.00 Feet

Multiple Stage Cementing Collar Used? ___ Yes X No

If yes, show depth set ___ Feet

If Alternate II completion, cement circulated from ___

feet depth to ___ w/ ___ sx cmt.

Drilling Fluid Management Plan AH I, 4-14-98 UC
(Data must be collected from the Reserve Pit)

Chloride content 21,000 ppm Fluid volume 800 bbls

Dewatering method used Evaporation

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, 130 S. Market - Room 2078, 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 [signature]

Title Geologist Bob Bachman Date 11/11/97

Subscribed and sworn to before me this 11 day of November, 19 97.

Notary Public Anita L Pollock
Anita Pollock

Date Commission Expires My Commission Expires 10/01/2000

K.C.C. OFFICE USE ONLY
F ___ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ___ Geologist Report Received

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

IS

Form ACO-1 (7-91)

SIDE TWO

Operator Name St. Mary Land & Exploration Co. Lease Name Wettstein Well # 1

Sec. 20 Twp. 32S Rge. 32 ☐ East ☒ West County Seward

**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 (Attach Additional Sheets.) ☐ Yes ☒ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run: Dual Induction, Form Evaluation, Micro Elect, Comp. SSD & Neutron,

☒ Log Formation (Top), Depth and Datums ☐ Sample

| Name | Top | Datum |
|---|---|---|
| Harrington | 2613' | |
| Krider | 2638' | |
| Lower Krider | 2680' | |

**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 | 7 7/8" | 8 5/8" | 23# | 575.00 | AL Lite | 210 | 3% cc, 1/4# flosēal per sk |
| | | | Followed with | | Class "A" | 125 | 3% cc, 2% ge |
| | | | | | | | |

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

| Purpose: | Depth Top | Depth Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|---|---|---|---|---|---|
| ___ Perforate | | | | | |
| ___ Protect Casing | | | | | |
| ___ Plug Back TD | | | | | |
| ___ 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) | Depth |
|---|---|---|---|
| 4 | 2646-2656' | Frac w/ 70 quality N2 foam | |
| 4 | 2616-2622' | 36,000# 16-30 sand | |
| | | | |
| | | | |

| TUBING RECORD | Size | Set At | Packer At | Liner Run |
|---|---|---|---|---|
| | 2 3/8" | 2596' | | ☐ Yes ☒ No |

| Date of First, Resumed Production, SWD or Inj. | Producing Method |
|---|---|
| WOPL | ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) |

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | | 125 | | | |

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☒ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled _____

☐ Other (Specify) _____ _____