FORM MUST BE TYPED **CONFIDENTIAL** SIDE ONE

COPY 2nd

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

API NO. 15- 179-21090

County Sheridan

50' W E/2 -W/2 -NE - Sec. 4 Twp. 6S Rge 27 X W

~~3960~~ 1450 N Feet from (S)/N (circle one) Line of Section

~~1700~~ 1650 E Feet from (E)/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE), NW or SW (circle one)

Operator: License # 30606

Name: Murfin Drilling Co., Inc.

Address 250 N. Water, Suite 300

City/State/Zip Wichita, KS 67202

Purchaser:

Operator Contact Person: Larry M. Jack

Phone (316) 267 - 3241

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Roger Welty

Designate Type of completion
X New Well Re-Entry Workover

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

If Workover/Re-Entry: old well info as follows:

Operator:

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.

4/18/97 4/24/97 _____
Spud Date Date Reached TD Completion Date

Lease Name Muirhead Farms Well # 1-4

Field Name Unknown

Producing Formation None

Elevation: Ground 2600 KB 2605

Total Depth 4110 PBTD

Amount of Surface Pipe Set and Cemented at 272 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.

Drilling Fluid Management Plan D&A JH 12-1-97
(Data must be collected from the Reserve Pit)

Chloride content 650 ppm Fluid volume 2500 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. _____

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KANSAS CORP. COMM.
1997 MAY 21 A 2:03

MAY 20
CONFIDENTIAL

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 Larry M Jack

Title Larry M. Jack, Production Manager Date 5/20/97

Subscribed and sworn to before me this 20 day of May 19 97.

Notary Public Kerran Redington

Kerran Redington

Date Commission Expires 2/6/98

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-6-98

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 Murfin Drilling Co., Inc. Lease Name Muirhead Farms Well # 1-4

Sec. 4 Twp. 6 S Rge. 27 ☐ East ■ West County Sheridan

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.Log

■ Log ☐ Sample

Formation (Top), Depth and Datums

Name	Top	Datum
T/Anhydrite	2230'	+ 375
B/Anhydrite	2262'	+ 343
Topeka	3416'	- 811
Heebner	3606'	- 1001
Toronto	3633'	- 1028
LKC	3648'	- 1043
B/KC	3843'	- 1238
ARB	4096'	- 1491

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	12¼"	8⅝"	24#	272	60/40 Poz	175	3% cc,2% gel
Production							

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: _Perforate Protect Csg _Plug Back TD Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

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

TUBING RECORD Size Set At Packer At | Liner ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. D & A | Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other

Estimated Production Per 24 Hours	Oil N/A Bbls	Gas N/A Mcf	Water N/A Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

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

METHOD OF COMPLETION

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify)

Production Interval

_____