SIDE ONE

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 # 4381
Name Mohawk Petroleum, Inc.
Address P.O. Box 2082
City/State/Zip Hutchinson, KS 67504-2082

Purchaser Alpine Petroleum, Inc.
Box 66, El Dorado, Ks. 67402

Operator Contact Person Dean Pattison
Phone 316-689-8393

Contractor: License # 5929
Name Duke Drilling Co., Inc.

Wellsite Geologist Dean Pattisson
Phone 316-689-8393

Designate Type of Completion
X 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:
X Mud Rotary ___ Air Rotary ___ Cable

9-12-88	9-22-88	10-19-88
Spud Date	Date Reached TD	Completion Date

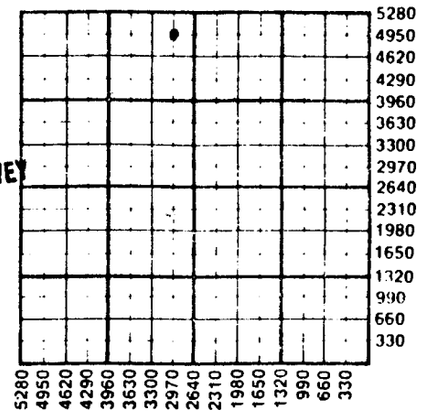
4446'	
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 222 feet
Multiple Stage Cementing Collar Used? ___ Yes X No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt
Cement Company Name
Invoice #

API NO. 15- 15-077-21,181
County Harper
NE NE NW Sec. 27 Twp. 31 Rge. 8 ___ East X West
4950 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Muir Well # 1
Field Name Spivey-Grabs
Producing Formation Mississippi Chert
Elevation: Ground 1604' KB 1621'

Section Plat



NOV 05 1988
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

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

X Surface Water 4950 Ft North from Southeast Corner
(Stream, pond etc.) 2970 Ft West from Southeast Corner
Sec 26 Twp 31 Rge 8 ___ East X 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.

RECEIVED
STATE CORPORATION COMMISSION
NOV 1988
CONSERVATION DIVISION
Wichita, Kansas

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
Title Sec. Date 10-31-88

Subscribed and sworn to before me this 31st day of October, 1988.
Notary Public
Date Commission Expires

KENT G. VOTH
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 11-16-90

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
(Specify)

Sec 27 Twp 31 Rge 8 W

Form ACO-1 (5-86)

SIDE TWO

Operator Name Mohawk Petroleum Inc. Lease Name Muir Well # 1

Sec. 27 Twp. 31 Rge. 8 ☐ East ☒ West County Harper

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

Drill Stem Attached

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom

Log Attached

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"	8-5/8"	20#	222'	60/40poz	160	2% gel 3% cc
Production	7-7/8"	4½"		4432'	Surfill	125	

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	Open Hole Completion	500 Gal. 52% Mud Acid	4446

TUBING RECORD Size 2 7/8" Set At 4300 Packer at N/A Liner Run ☐ Yes ☒ No

Date of First Production 10/19/88

Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	40 Bbls	40 MCF	40 Bbls	CFPB	38°

METHOD OF COMPLETION

Disposition of gas: ☐ Vented ☒ Sold ☐ Used on Lease

☒ Open Hole ☐ Perforation ☐ Other (Specify) .....

☐ Dually Completed ☐ Commingled

Production Interval

4430'

4446'