

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 # 6393
name Brougher Oil, Inc.
address P.O. Drawer 1367
City State/Zip Great Bend, Kansas 67530

Operator Contact Person Mr. Joe E. Brougher
Phone 316-793-5610

Contractor: license # 6394
name Mohawk Drilling, Inc.

Wellsite Geologist Mr. Brent B. Reinhardt
Phone 316-793-5610

PURCHASER N. C. R. A.

Designate Type of Completion
 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: Mud Rotary Air Rotary Cable

10/30/84 11/8/84 1/11/85
Spud Date Date Reached TD Completion Date

4862 (LTD) None
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 432' feet

Multiple Stage Cementing Collar Used? Yes No

If Yes, Show Depth Set feet

If alternate 2 completion, cement circulated from feet depth to w/ SX cmt

API NO. 15-193-20,319

County Thomas

C SE NW Sec 13 Twp 6s Rge 36w XX West
(location)

3300 Ft North from Southeast Corner of Section
3300 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

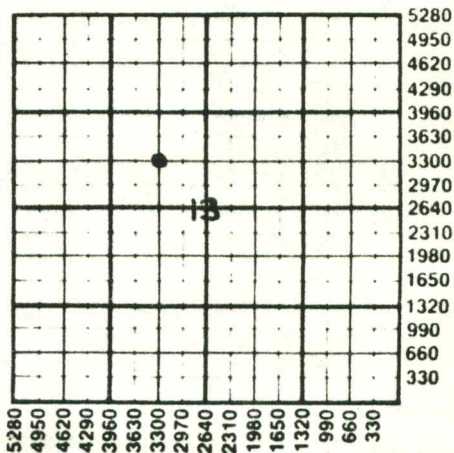
Lease Name Miller 'B' Well# 2

Field Name WVN Ext.

Producing Formation Pawnee

Elevation: Ground 3339' KB 3349'

Section Plat



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit # T84-712

Groundwater Near 3300 Ft North From Southeast Corner and
(Well) 3300 Ft. West From Southeast Corner of
Sec 13 Twp 6S Rge 36W East XX West

Surface Water Ft North From Southeast Corner and
(Stream, Pond etc.) Ft West From Southeast Corner
Sec Twp Rge East West

Other (explain)
(purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring

Docket #

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rules 82-3-130 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 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.

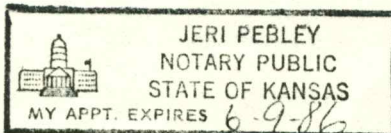
All requirements of the statutes, rules, and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Brent B. Reinhardt

Title Company Geologist Date 1/22/85

Subscribed and sworn to before me this 23 day of Jan 19 85

Notary Public Jeri Pebley
Date Commission Expires 6-9-86



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)

Operator Name Brougner Oil, Inc. Lease Name Miller 'B' Well# 2 SEC 13 TWP 6s RGE 36w East West

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

Formation Description
 Log Sample

Drill Stem Test #1 (3843-3890) Tarkio
 TIMES: 30" : 30" : 30" : 30"
 REC: 2' Mud
 SIP: 66#/49# HP: 1904#/1839#
 FP: 33-33#/33-33# BHT: 110°F

Drill Stem Test #2 (4510-4550) Pawnee "A"
 TIMES: 45" : 45" : 45" : 45"
 REC: 93' Gas in Pipe
 30' Clean Oil
 62' Heavy Oil Cut Mud
 62' Slight Oil Cut Mud (2% Oil, 98% Mud)
 SIP: 556#/540# HP: 2213#/2262#
 FP: 33-69#/82-90# BHT: 122°F

Drill Stem Test #3 (4555-4595) Pawnee "B"
 TIMES: 45" : 30" : 30" : 30"
 REC: 3' Oil Specked Mud
 SIP: 278#/172# HP: 2360#/2360#
 FP: 8-33#/25-25# BHT: 121°F

Name	DEPTH TOP	DATUM BOTTOM
Stone Corral	2974	+ 375
Base/Stone Corral	3008	+ 341
Tarkio	3870	- 521
Burlingame	3940	- 591
Howard	3994	- 645
Topeka	4032	- 683
Queen Hill	4122	- 773
Heebner	4161	- 812
Toronto	4194	- 845
Lansing	4210	- 861
BKC	4462	-1113
Marmaton	4470	-1121
Pawnee	4520	-1171
Ft Scott	4603	-1254
Cherokee	4664	-1315
Conglomerate	4709	-1360
Mississippian	4809	-1460
RTD	4860	-1511
LTD	4862	-1513

Welex, Inc.:
 Compensated Density, Dual Spaced
 Neutron, Dual Induction, CAL.

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 (N)	12.1/4"	8.5/8"	24#	432'	60/40 Poz	300	2%Gel, 3%CC
Production (N)	7.7/8"	5.1/2"	14#	4862'	50/50 Poz	200	2%Gel, 10%Salt, 75%CFR
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	4521-4525			AC: 500 gals (15% Ne) FRAC: 160 sacks 20/40 sand			4525'
TUBING RECORD size 2 3/8" set at 4857 packer at None					Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First Production	Producing method <input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)						
1/11/85							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
7			100				
	Bbls	MCF	Bbls	CFPB			

Disposition of gas: vented sold used on lease
 METHOD OF COMPLETION: open hole perforation other (specify) _____
 PRODUCTION INTERVAL: Pawnee: 4521-4525
 Dually Completed. Commingled