SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

API NO. 15-167-22,653

County Russell

NE NE SE Sec. 33 Twp. 13s Rge. 15w [ ] East [XX] West

2310 Ft North from Southeast Corner of Section
330 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

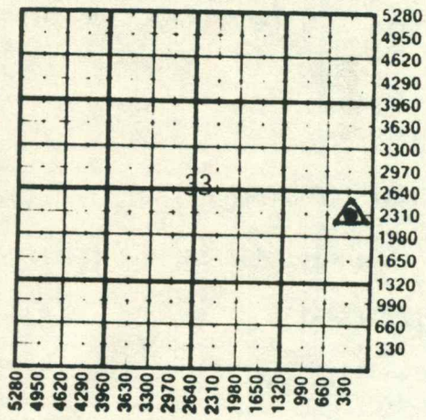
Lease Name MILLS "B" Well # 8

Field Name Gorham

Producing Formation Topeka, LKC, Arbuckle

Elevation: Ground 1904 KB 1914

Section Plat



DESCRIPTION OF WELL AND LEASE

Operator: License # 6393
Name Brougher Oil, Inc.
Address P.O. Drawer 1367
Great Bend, KS 67530
City/State/Zip

Purchaser National Cooperative Refinery Asc.
McPherson, KS 67460

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

Designate Type of Completion
[XX] New Well [ ] Re-Entry [ ] Workover

[XX] Oil [XX] 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:
[XX] Mud Rotary [ ] Air Rotary [ ] Cable

8/19/85	8/30/85	11/9/85
Spud Date	Date Reached TD	Completion Date

3572	None
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 1002 feet
Multiple Stage Cementing Collar Used? [ ] Yes [XX] No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

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 # N/A: Pond

[ ] Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge [ ] East [ ] West

[XX] Surface Water 210 Ft North from Southeast Corner
(Stream, pond etc) 120 Ft West from Southeast Corner
Sec 3 Twp 14s Rge 15w [ ] East [XX] West

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

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. Rule 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.

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

ature Brent B Reinhardt
e Company Geologist Date 11/9/85

cribed and sworn to before me this 11 day of Dec
Public Jeri Pebley
mmission Expires 6-9-86

JERI PEBLEY
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. 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)

Sec. Twp. Rge.

Form ACO-1 (7-84)

SIDE TWO

Operator Name Brougher Oil, Inc. Lease Name MILLS "B" Well# 8 SEC 33 TWP 13s RGE 15w ☐ 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

DST #1 (2784-2819) Topeka
TIMES: 45"45"45"45"
REC: 10' Oil Spk Mud (3%O, 97%M)
SIP: 104/70 HP: 1567/1497
FP: 17-52/52-52 BHT: 95°F

DST #2 (2900-2030) LeCompton (Topeka)
TIMES: 45"45"45"45"
REC: 130' Wty Mud
SIP: 1532/1497 HP: 1602/1585
FP: 35-87/87-104 BHT: 100°F

DST #3 (3046-3110) Toronto - LSG "B" zone
TIMES: 45"45"45"45"
REC: 190' Lightly Oil Spk Mud (1% Oil)
SIP: 695/574 HP: 1673/1655
FP: 70-122/139-174 BHT: 99°F

DST #4 (3244-3270) LKC "J" zone
TIMES: 30"30"30"30"
REC: 5' Mud
SIP: 52/35 HP: 1795/1778
FP: 35-35/35-35 BHT: 100°F

DST #5 (3312-3342) Arbuckle
TIMES: 45"45"45"45"
REC: 185' HOCM (50%O, 35%M, 15%W)
SIP: 1008/990 HP: 1751/1760
FP: 35-87/87-104 BHT: 100°F

DST #6 (3358-3379) Reagan Sand
TIMES: 45"45"45"45" SIP: 1078/1078 HP: 1848/1813
REC: 2335' SW FP: 730-1078/1078-1078 BHT: 104°F

Formation Description
☒ Log ☐ Sample

Name	DEPTH Top	DATUM
Anhydrite	947	+ 967
Base/Anhydrite	985	+ 929
Indian Cave	2414	- 500
Tarkio	2543	- 629
Elmont	2599	- 685
Howard	2742	- 828
Topeka	2801	- 887
Plattsmouth	2974	-1060
Heebner	3022	-1108
Toronto	3043	-1129
Douglas	3057	-1143
Lansing	3075	-1161
BKC	3315	-1401
Gorham Sand	NP	NP
Arbuckle	3323	-1409
Reagan Sand	3359	-1445
Granite Wash	3429	-1515
RTD	3572	-1658
LTD	3572	-1658

Welex, Inc.:
Radiation Guard Log, Compensated Density, Computer Log, Micro-Seismogram Log

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 (N)	14 3/4"	10 3/4"	45.5	1002'	50/50 POZ	500	2%Gel, 3%CC
Production (U)	8 3/4"	7"	24#	3404'	50/50 POZ	225	2%Gel, 18%Salt, .75CFR-2

PERFORATION RECORD

shots per foot	specify footage of each interval perforated
2	3324-3330 (Arbuckle)
3	3253-3256 (LKC "J")
2	3118-3120 (LKC "D")
2	3100-3102 (LSG "B")
3	3076-3080 (LSG "A")
3	2801-2804 (Topeka)

Acid, Fracture, Shot, Cement Squeeze Record (amount and kind of material used) — Depth

SEE: Completion Report (ENCLOSED)

TUBING RECORD size 2 3/8" set at 3380 packer at 3380' Liner Run ☐ Yes ☒ No

Date of First Production: 11/23/85
Producing method: ☐ flowing ☒ pumping ☐ gas lift ☐ Other (explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	8 Bbls	MCF	100 Bbls	CFPB	

Disposition of gas: ☐ vented ☐ sold ☐ used on lease

METHOD OF COMPLETION
☐ open hole ☒ perforation
☐ other (specify)
☒ Dually Completed.
☒ Commingled

PRODUCTION INTER
2801-2804 (Tope
3076-3080 (LKC
3324-3330 (Arbu
SWDW: Open Hole
Wash: 3404-3