

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 30535
Name: HARTMAN-OIL CO., INC.
Address: 1223 N ROCK ROAD - BLDG A - SUITE 200
City/State/Zip: 67206
Purchaser: NCRA
Operator Contact Person: STAN MITCHELL
Phone: (620) 277-2511
Contractor: Name: _____
License: _____
Wellsite Geologist: _____

Designate Type of Completion:

____ New Well ____ Re-Entry ☒ Workover
____ Oil ____ SWD ____ SLOW ____ Temp. Abd.
____ Gas ☒ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: HARTMAN OIL CO., INC.
Well Name: BRODIE #4
Original Comp. Date: 3-53 Original Total Depth: 3339'
____ Deepening ____ Re-perf. ☒ Conv. to Enhr./SWD
____ Plug Back 3311 Plug Back Total Depth
____ Commingled Docket No. _____
____ Dual Completion Docket No. _____
☒ Other (SWD or Enhr.?) Docket No. E-27957

<u>01-09-02</u>	<u>01-10-02</u>	<u>01-11-02</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - _____
County: BARTON
____ SW NW NE Sec. 25 Twp. 19 S. R. 12 ☐ East ☒ West
4290 feet from S / N (circle one) Line of Section
2310 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW
Lease Name: BRODIE Well #: 4
Field Name: WARNER

Producing Formation: TOPEKA - L/KC
Elevation: Ground: 1802' Kelly Bushing: 1802'
Total Depth: 3339' Plug Back Total Depth: 3311'
Amount of Surface Pipe Set and Cemented at 178 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

(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____

Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West
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 of 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: S.T. Mitchell
Title: Production Supervisor Date: 01/14/02
Subscribed and sworn to before me this 15 day of January,
~~2002~~ 2002.
Notary Public: Marye A. King
Date Commission Expires: 1/23/02

KCC Office Use ONLY

____ Letter of Confidentiality Attached
If Denied, Yes ☐ Date: _____
____ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

Operator Name: HARTMAN OIL CO., INC. Lease Name: BRODIE Well #: 4
 Sec. 25 Twp. 19 S. R. 12 ☐ East ☒ West County: BARTON

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☒ Yes ☐ No
 (Submit Copy)

List All E. Logs Run:

RADIOACTIVITY LOG
 TEMPERATURE SURVEY
 GAMMA RAY CORRELATION LOG

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
TOPEKA	2678'	876'
HEEBNER	2940'	1138'
LANSING	3075'	1273'
B/KC	3325'	1523'

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	12-1/4"	8-5/8"	32#	178'	REGULAR	150	2% C.C.
PRODUCTION	7-7/8"	5-1/2"	14#	3339'	REGULAR	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top 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
2	2882-84' - TOPEKA	ACIDIZED W/ 300 GAL DSFE 15%	2882-84'
2	3080-86 - L/KC "A"	ACIDIZED W/ 400 GAL DSFE 15%	3080-86'
2	3102-07' - L/KC "B"	ACIDIZED W/ 400 GAL DSFE 15%	3102-07'
2	3124-28' - L/KC "D"	ACIDIZED W/ 300 GAL DSFE 15%	3124-28'
2	3212-28 - L/KC "H" & 3230-36' - L/KC "I"	ACIDIZED W/ 600 GAL DSFE 15%	3212-36'
TUBING RECORD			Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Size 2-3/8"	Set At 2855'	Packer At 2857'	
Date of First, Resumed Production, SWD or Enhr. (MIT) 01/14/02		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water 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 TOPEKA - L/KC
☐ Other (Specify) _____