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KANSAS CORPORATION COMMISSION KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

JAN 17 2002

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

CONSERVATION DIVISION

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 ____ SIOW ____ 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

01-09-02 01-10-02 01-11-02
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-04714-0001
County: BARTON
SW NA 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 ALT I WITHIN 10-16-06
(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~~
Notary Public: Meryl L. 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

 **MERYL L. KING**
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 1-23-02

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No	TOPEKA	2678'	876'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	HEEBNER	2940'	1138'
List All E. Logs Run:		MISSOURI	3075'	1273'
		B/KC	3325'	1523'

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RADIOACTIVITY LOG
 TEMPERATURE SURVEY
 GAMMA RAY CORRELATION LOG

CONSERVATION DIVISION

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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		Size	Set At	Packer At	Liner Run
		2-3/8"	2855'	2857'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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 **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled TOPEKA - L/KC
(If vented, Sumit ACO-18.) Other (Specify) _____