

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 30535Name: Hartman Oil Co., Inc.Address 1223 N. Rock Rd.Bldg. A/200City/State/Zip Wichita, KS 67206Purchaser: NCRAOperator Contact Person: Stan MitchellPhone (620) 277-2511Contractor: Name: Sterling DrillingLicense: #5142Wellsite Geologist: Jon Christensen

Designate Type of Completion

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

If Workover/Reentry: Old Well Info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ PBTB☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) ☐ Docket No. _____

<u>7/5/2002</u>	<u>7/15/2002</u>	<u>7/31/2002</u>
Spud Date	Date Reached TD	Completion Date

API NO. 15- 007-21,427-0000County Harper- N/2 NE - NW Sec. 5 Twp. 34S Rge. 8 E990' Feet from S(N) (circle one) Line of Section1320' Feet from E(N) (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Zimmerman C Well # 2Field Name WildcatProducing Formation MississippiElevation: Ground 1302' KB 1311'Total Depth 5323' PBTD 5113'Amount of Surface Pipe Set and Cemented at 293' FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cm.

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 Rng. _____ E/W

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 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 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 ST. MitchellTitle Superintendent Date 8/12/02Subscribed and sworn to before me this 12th day of August,
2002Notary Public Meryl L. KingDate Commission Expires 2/7/2006

K.C.C. OFFICE USE ONLY
F ☐ Letter of Confidentiality Attached
C ☐ Wireline Log Received
C ☐ Geologist Report Received

Distribution
____ KCC ☐ SWD/Rep ☐ NGPA
____ KGS ☐ Plug ☐ Other
(Specify)



Operator Name Hartman Oil Co., Inc.Lease Name Zimmerman 'C'Well # 2Sec. 5 Twp. 34S Rge. 8☐ EastCounty Harper☒ West

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
(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:

Dual Compensated Porosity

Dual Induction

Sonic Cement Bond Log

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Heebner	3403	-2092'
Kansas City	3990	-2679'
Marmaton	4253	-2942'
Ft. Scott	4395	-3084'
Mississippi	4540	-3229'
Miss. Dolomite	4544	-3233'

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	12 1/2"	8 5/8"	24#	293'	60/40 pos	210	2% gel 3% c.c.
Production	7 7/8"	5 1/2"	15 1/2#	5160.54'	ASC	250	5# Flowseal

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 per foot	Perforated 4555' - 4565'	400 Gal 15% HCL	4555'
		1000 gal 15% HCL	4555-65'
		1000 gal FE & 1000 gal NE	4555-65'

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	4782'		☐ Yes ☒ No
Date of First, Resumed Production, SWD or Inj.	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)			
8/8/2002				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	15	38	42	

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ and ☒ Used on Lease
(If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____