

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

API NO. 15- 077-21,427-0000

County Harper

N/2 NE - NW Sec. 5 Twp. 34S Rge. 8 X E^W

990' Feet from S(N) (circle one) Line of Section

1320' Feet from E(W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)

Lease Name Zimmerman C Well # 2

Field Name Wildcat

Producing Formation Mississippi

Elevation: Ground 1302' KB 1311'

Total Depth 5323' PSTD 5113'

Amount of Surface Pipe Set and Cemented at 293' Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sk cmt.

Drilling Fluid Management Plan see 1 EH 9.16.00
(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. _____

Operator: License # 30535

Name: Hartman Oil Co., Inc.

Address 1223 N. Rock Rd.

Bldg. A/200

City/State/Zip Wichita, KS 67206

Purchaser: NCRA

Operator Contact Person: Stan Mitchell

Phone (620) 277-2511

Contractor: Name: Sterling Drilling

License: #5142

Wellsite Geologist: Jon Christensen

Designate Type of Completion

New Well Re-Entry Workover

Oil SMD SIOW 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/SMD

Plug Back PSTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SMD or Inj?) Docket No. _____

7/5/2002 7/15/2002 7/31/2002
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 207B, 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 S.T. Mitchell

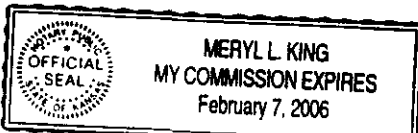
Title Superintendent Date 8/12/02

Subscribed and sworn to before me this 12th day of August, 2002

Notary Public Meryl L. King

Date Commission Expires 2/7/2006

K.C.C. OFFICE USE ONLY					
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached			
C	<input checked="" type="checkbox"/>	Wireline Log Received			
C	<input checked="" type="checkbox"/>	Geologist Report Received			
Distribution					
<input type="checkbox"/>	KCC	<input type="checkbox"/>	SMD/Rep	<input type="checkbox"/>	NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/>	Plug	<input type="checkbox"/>	Other
(Specify)					



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

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3403	-2092'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Kansas City	3990	-2679'
List All E.Logs Run:		Marmaton	4253	-2942'
Dual Compensated Porosity		Ft. Scott	4395	-3084'
Dual Induction		Mississippi	4540	-3229'
Sonic Cement Bond Log		Miss. Dolomite	4544	-3233'

CASING RECORD <input type="checkbox"/> New <input checked="" 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 1/2"	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
<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 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 2 7/8"	Set At 4782'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
8/8/2002				
Estimated Production Per 24 Hours	Oil 15 Bbls.	Gas 38 Mcf	Water 42 Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: Vented sold Used on Lease Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

METHOD OF COMPLETION: _____ Production Interval: _____

(If vented, submit ACO-18.)

ALLIED CEMENTING 000

P.O. BOX 31
RUSSELL, KS 67665
PH (785) 483-3887
FAX (785) 483-5566
FEDERAL TAX ID# 48-07271

0.00 T

2,517.10 +

251.71 -

000

2,265.39 T

000

RECEIVED JUL 22 2002

INVOICE

ORIGINAL

Invoice Number: 087626

Invoice Date: 07/12/02

Sold Hartman Oil Co.
To: 4550 W. 9 Mile Road
Garden City, KS
67846

RECEIVED
AUG 15 2002
KCC WICHITA

Cust. I.D. Hart
P.O. Number ... Zimmerman "C" #2
P.O. Date ... 07/12/02

Due Date.: 08/11/02
Terms. Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	126.00	SKS	6.6500	837.90	E
Pozmix	84.00	SKS	3.5500	298.20	E
Gel	4.00	SKS	10.0000	40.00	E
Chloride	6.00	SKS	30.0000	180.00	E
Handling	220.00	SKS	1.1000	242.00	E
Mileage (30)	30.00	MILE	8.8000	264.00	E
220 sks @\$.04 per sk per mi					
Surface	1.00	JOB	520.0000	520.00	E
Mileage pmp trk	30.00	MILE	3.0000	90.00	E
Wooden plug	1.00	EACH	45.0000	45.00	E



CEMENTING LOG

ORIGINAL

STAGE NO. AUG 15 2006

Date 7-16-02 District M.L. KS Ticket No. 9736
 Company W.L. Hartman Rig Sterling
 Lease Zimmerman Well No. C-2
 County Harper State KS
 Location E Edge Utica 8 1/2 Field _____
3E into

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type _____ Weight 15.5 Collar _____

Casing Depths: Top K.B. Bottom 5110.54

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 5325 ft. P.B. to _____ ft.

CAPACITY FACTORS: 4098
 Casing: Bbbs/Lin. ft. 0.0238 Lin. ft./Bbl. 42.7
 Open Holes: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbs/Lin. ft. 0.0309 Lin. ft./Bbl. 32.4061
 Bbbs/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: 500gal mud-clean KCC WICHITA
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type PEC 15" Kol-Seal
 Excess _____

Amt. 250 Skys Yield 1.57 ft³/sk Density 14.5 PPG _____

TAIL: Pump Time Rat-hole hrs. Type 60' 4" 4
 Excess _____

Amt. 15 Skys Yield 1.40 ft³/sk Density 14.1 PPG _____

WATER: Lead 7.23 gals/sk Total 6.3 gals/sk Total _____ Bbbs _____

Pump Trucks Used # 281 - Steve Davis
 Bulk Equip. # 359 - Mark Haas

Float Equip: Manufacturer Gemaco

Shoe: Type Packer Shoe Depth 5110.54

Float: Type Latch Down Plug Depth 5118

Centralizers: Quantity 10 Plugs Top Latch Down Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Fresh h₂O Amt. 126 Bbbs. Weight _____ PPG _____

Mud Type Milive Weight 9.5 PPG _____

COMPANY REPRESENTATIVE Stan Mitchell

CEMENTER Mike Parker / Co. Rep - Larry Drelling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbs Min.	
<u>10:00 pm</u> <u>12:00 pm</u>						<u>P.B. on bottom break Circ.</u> <u>Drop Ball Circ.</u>
<u>1:50</u>	<u>200</u>		<u>12 bbl</u>		<u>6</u>	<u>Pump 500gal - mud.</u>
<u>2:00 pm</u>			<u>15 sx</u>		<u>4 1/2</u>	<u>Plug Rat hole with 15 sx 60' 4" 4 @ 14.1 weight</u>
<u>2:05</u>	<u>600</u>		<u>70 bbl slurry</u>		<u>5 1/2</u>	<u>Start Prod. Cement 250 sx Hsc 15" Kol-Seal + .5% Ft-160 @ 14.5 weight.</u>
<u>2:20</u>						<u>Stop Pumps Wash Pump & Lines</u>
<u>2:20</u>	<u>100</u>				<u>6</u>	<u>Release Plug Start Disp. With fresh h₂O</u>
						<u>60 bbl out 200 98 bbl out 900</u>
						<u>70 bbl out 300 107 bbl out 1000</u>
						<u>72 bbl out 400 114 bbl out 1100</u>
						<u>80 bbl out 500 120 bbl out 1200</u>
						<u>83 bbl out 600</u>
						<u>85 bbl out 700</u>
						<u>90 bbl out 800</u>
<u>2:40</u>	<u>1200</u>	<u>2000</u>			<u>3 1/2</u>	<u>@ 126 bbl Disp. Bump Plug (200) - 2000</u> <u>Release Pressure that did not hold Press.</u> <u>Up 2 more times didn't hold. Press up</u> <u>700 Shut in.</u>