

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

1/14/10  
ORIGINAL

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: 12950 E 13th St. N  
City/State/Zip: Wichita, Ks. 67230-1457  
Purchaser: NCRA  
Operator Contact Person: Stan Mitchell  
Phone: (620) 277-2511  
Contractor: Name: H2 Drilling  
License: 33793  
Wellsite Geologist: Jim Musgrove

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: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

<u>10-4-07</u>	<u>10-23-07</u>	<u>11-14-07</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 083-21536-0000  
County: Hodgeman  
S/2 SW NE NW Sec. 18 Twp. 21 S. R. 22  East  West  
2300' 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: Antrim Well #: 6  
Field Name: Wieland  
Producing Formation: Miss  
Elevation: Ground: 2296' Kelly Bushing: 2306'  
Total Depth: 4475' Plug Back Total Depth: 4442'  
Amount of Surface Pipe Set and Cemented at 350' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2767' Feet  
If Alternate II completion, cement circulated from DV - 2767'  
feet depth to Surface w/ 500 sx cmt.

Drilling Fluid Management Plan At II NJ 3720  
(Data must be collected from the Reserve Pit)  
Chloride content 3900 ppm Fluid volume 7500 bbls  
Dewatering method used Evaporation  
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: L.T. Mitchell  
Title: Vice President/Field Production Date: 1-10-08  
Subscribed and sworn to before me this 10<sup>th</sup> day of January,  
20 08.  
Notary Public: Linda Chanel Neises  
Date Commission Expires: \_\_\_\_\_

Notary Public State of Kansas  
Linda Chanel Neises  
My Appt Exp 08/27/2010

**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Hartman Oil Co., Inc Lease Name: Antrim Well #: 6  
 Sec. 18 Twp. 21 S. R. 22  East  West County: Hodgeman

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**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:

Dual Compensated Porosity Log - Dual Induction  
 Log - Microresistivity Log - Sonic Cement Bond Log

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Name	Top	Datum
Heebner Shale	3734'	-1428
Lansing	3782'	-1476
BKC	4108'	-1802'
Marmanton	4144'	-1838'
Ft. Scott	4295'	-1989
Cherokee Shale	4322'	-2016
Miss	4376'	-2070
RTD	4475'	-2169

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	12-3/4'	8-5/8"	23#	350	common	240	w/ 2% Gel + 3% CC
Production	7-7/8"	5-1/2"	15.5#	4474'	ASC & Lite	800	W/ 8% gel 1/4# floeal

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 / SPF	4382-88' - Miss	500 Gal 15% Mud Acid	4382-88'

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2-7/8"	3896'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
11-14-07		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mct	Water Bbls.	Gas-Oil Ratio	Gravity
	10	N/A	343		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_

Production Interval: \_\_\_\_\_

RECEIVED  
 KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION  
 WICHITA, KS

# ALLIED CEMENTING CO., INC.

25669

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

(10-23) M.B.  
10-23-07

DATE 10-22-07	SEC. 14	TWP. 21	RANGE 22	CALLED OUT	ON LOCATION	JOB START 7:30 AM	JOB FINISH 3:20 PM
LEASE Anttrim	WELL # 6	LOCATION Hanstoma 1/4 N 3/4 W 7 N 1/4 W			COUNTY Hodgeman	STATE K.S.	
OLD OR <u>NEW</u> (Circle one)				5/5			

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JAN 14 2008

CONTRACTOR H 2 Rig 2

TYPE OF JOB Two Stage Top

HOLE SIZE 7 7/8 T.D. 4475 ft

CASING SIZE 5 1/2 DEPTH 2767 ft

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL D.V. Tool DEPTH 2767 ft

PRES. MAX 1500\* MINIMUM 700\*

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 67.5 bbl

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 125 M ASC 5# Kolsal

375 60 82 gal 1/4" Hosal P/1sk

KCC

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.

# 181 HELPER Randy P.

BULK TRUCK

# 344 DRIVER Steve T.

BULK TRUCK

# 357 DRIVER Tyler

COMMON	<u>225 M</u>	@	<u>11.10</u>	<u>2497.50</u>
POZMIX	<u>130 M</u>	@	<u>6.20</u>	<u>930.00</u>
GEL	<u>28 M</u>	@	<u>16.65</u>	<u>466.20</u>
CHLORIDE		@		
ASC	<u>125 M</u>	@	<u>13.75</u>	<u>1718.75</u>
SALT	<u>8 M</u>	@	<u>19.20</u>	<u>153.60</u>
FROSEAL	<u>94 #</u>	@	<u>2.00</u>	<u>188.00</u>
KOL SEAL	<u>625 #</u>	@	<u>.70</u>	<u>437.50</u>
		@		
		@		
		@		
		@		
HANDLING	<u>560 M</u>	@	<u>1.90</u>	<u>1064.00</u>
MILEAGE	<u>560 M</u>	@	<u>.20</u>	<u>1008.00</u>
TOTAL				<u>8463.55</u>

REMARKS:

@ Per D.V. Tool of 500\*  
circulate for two hr.  
Mix Cement Plug Rat Hole & plug  
mause Hole mix Rest of Cement  
down then wash up & Displace  
plug down with water  
about did hold at 1500\*  
Cement came to surface

CHARGE TO: Hartman oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB	<u>2767 ft</u>		
PUMP TRUCK CHARGE			<u>955.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20</u>	@	<u>6.00</u> <u>NC</u>
MANIFOLD		@	
<u>Mod Partal</u>	<u>✓</u>	@	<u>100.00</u> <u>NC</u>
<u>Pres chart</u>	<u>✓</u>	@	<u>NC</u> <u>NC</u>
TOTAL <u>955.00</u>			

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL _____			

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Gary Fisher

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

PRINTED NAME Gary Fisher

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., INC.

25668

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: El. B.

10-22-07

DATE <del>10-22-07</del>	SEC <u>18</u>	TWP. <u>21</u>	RANGE <u>22</u>	CALLED OUT <u>7:00 AM</u>	ON LOCATION <u>2:00 PM</u>	JOB START <u>10:00 PM</u>	JOB FINISH <u>11:00 PM</u>
LEASE <u>Antrim</u>	WELL # <u>6</u>	LOCATION <u>Hanston 1/4 N 3w 7N 1/2 W 5/5</u>	COUNTY <u>Hodgeman K.S.</u>	STATE			
OLD OR <del>NEW</del> (Circle one)							

CONTRACTOR H 2 Rig 2 OWNER \_\_\_\_\_

TYPE OF JOB Two Stage Bottom

HOLE SIZE 7 7/8 T.D. 4475 ft

CASING SIZE 5 1/2 DEPTH 4471 ft

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL D.V. Tool DEPTH 2767 ft

PRES. MAX 1500\* MINIMUM 200\*

MEAS. LINE \_\_\_\_\_ SHOE JOINT 20 ft

CEMENT LEFT IN CSG. 20 ft

PERFS. \_\_\_\_\_

DISPLACEMENT 108.5 bbl

CEMENT AMOUNT ORDERED 1.75 sk ASC #5 Hds. gel

1.25 sk #8 2 gel 1/4 fl oz. #14

500 gal W.F.T.L.

COMMON	75 sk @ 11.10	832.50
POZMIX	50 sk @ 6.20	310.00
GEL	12 sk @ 16.65	199.80
CHLORIDE	@	
ASC	175 sk @ 13.75	2406.25
SALT	11 sk @ 19.20	211.20
FLASEAL	31 # @ 2.00	62.00
KOLSEAL	815 # @ 70	612.50
	@	
	@	
	@	
	@	
	@	
HANDLING	353.44 @ 1.90	671.54
MILEAGE	353.44 @ 20	7069.00
TOTAL		5940.35

EQUIPMENT

PUMP TRUCK CEMENTER Max

# 181 HELPER Mike m.

BULK TRUCK

# 344 DRIVER Randy P.

BULK TRUCK

# 357 DRIVER Steve T.

REMARKS:

Rig was having Down Drill pipe when we get here  
Start in Hole with casing at 6:30 AM  
Start Circulate the Hole with Rig mud pump  
at 8:00 AM then mix mud Slush Pump  
mud Slush Down the mix Cement washup  
Then Displace plug Down with water  
at 40 bbl + mud 67 bbl hand plug at  
1500\* float held

CHARGE TO: Hartman oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

Thank you

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Gary Fisher

SERVICE

DEPTH OF JOB 4471 ft

PUMP TRUCK CHARGE 1675.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE 20 @ 600 120.00

MANIFOLD @ \_\_\_\_\_

Pres Chart  @ \_\_\_\_\_ NC

Head Rental  @ \_\_\_\_\_ 100.00

TOTAL 1895.00

PLUG & FLOAT EQUIPMENT

1-5 1/2 float shoe	@ 470.00	470.00
1-5 1/2 hatch Down plug	@ 410.00	410.00
1-5 1/2 stage collar	@ 4000.00	4000.00
2-5 1/2 Basket	@ 165.00	330.00
10-5 1/2 Centralizers	@ 50.00	500.00
TOTAL		5710.00

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Gary Fisher PRINTED NAME

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION  
WICHITA, KS

CONFIDENTIAL  
JAN 14 2008

KCC

# ALLIED CEMENTING CO., INC. <sup>B</sup> 25661

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: M03

DATE <u>10-13-07</u>	SEC <u>18</u>	TWP <u>21 S</u>	RANGE <u>22 W</u>	CALLED <u>7:00 AM</u>	ON LOCATION <u>11:00 AM</u>	JOB START <u>12:00 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Antrim</u>		WELL # <u>6</u>	LOCATION <u>Hanston 1/2 N 3w 9N 1/2 W 5/5</u>		COUNTY <u>Hodgeman KS</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

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CONTRACTOR H2 Rig 2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 351 #

CASING SIZE 8 1/2 DEPTH 350 #

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 13 #

PERFS. \_\_\_\_\_

DISPLACEMENT 21 1/2

OWNER \_\_\_\_\_ JAN 14 2008

CEMENT AMOUNT ORDERED 240 # Common KCC

30 cc 22 gal

COMMON	<u>240</u>	@ <u>11.10</u>	<u>2664.00</u>
POZMIX		@	
GEL	<u>5</u>	@ <u>16.65</u>	<u>83.25</u>
CHLORIDE	<u>7</u>	@ <u>46.60</u>	<u>326.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>252</u>	@ <u>1.90</u>	<u>478.80</u>
MILEAGE	<u>20.9</u>	@ <u>252</u>	<u>453.60</u>
TOTAL			<u>4005.85</u>

EQUIPMENT

PUMP TRUCK CEMENTER Mike M.

# 181 HELPER Randy P.

BULK TRUCK

# 344 DRIVER Tim D.

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

**REMARKS:**

circulate the hole with Rig mud Pump

Mix Cement + Release Plug

Displace Plug Down with water

Cement did circulate to surface

**SERVICE**

DEPTH OF JOB	<u>350 #</u>		
PUMP TRUCK CHARGE			<u>815.00</u>
EXTRA FOOTAGE	<u>50</u>	@ <u>165</u>	<u>32.50</u>
MILEAGE	<u>20</u>	@ <u>6.00</u>	<u>120.00</u>
MANIFOLD		@	
<u>head rent</u>		@	<u>100.00</u>
		@	
TOTAL			<u>1067.50</u>

CHARGE TO: Hartman oil Co. Inc

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

<u>1-8 # wooden plug</u>	@		<u>60.00</u>
	@		
	@		
	@		
	@		
TOTAL			<u>60.00</u>

To Allied Cementing Co., Inc.  
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*Thank you*

SIGNATURE Gary Fisher

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

Gary Fisher  
PRINTED NAME

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 15 2008

CONSERVATION DIVISION  
WICHITA, KS

## Completion Report

Antrim #6  
18-21S-22W  
Hodgeman, KS

11-7-07

MIRU – Plains Well Service – TIH w/ 4 7/8" bit on 2 7/8" TBG – Tag DV-Tool @ 2688'  
– Shut In

11-8-07

Hook up mud pump & power swivel – Broke circulation – Drilled out DV –Tool – PSI  
Test to 300# ( OK ) – RIH w/ 4 7/8" Bit – Tag PBTD @ 4442' – Circulated 45 min –  
POOH w/ Bit – Hook up Log-Tech – Ran CBL – Good cement across Miss zone –  
Perforated Miss @ 4382'-88' ( 6 ' ) 4/SPF – FL @ 460' FS

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11-9-07

RIH w/ CSG swab – No change in FL – Swab down to perforations 96.8 Bbls – Shut in 1/  
HR – 50' Fill up (All oil) – RIH w/ Loc-Set PKR on 2 7/8" TBG – Spot acid across perfs  
treat w/ 500 Gal 15% MA acid – Broke down @ 500# @ .33 BPM – Treat @ max 500#  
@ 1 BPM – ISIP @ vac – Total load 52 Bbl – Shut In

11-10-07

TBG PSI (vacuum) – RIH w/ Swab FL @ 1200' FS – 1<sup>st</sup> Pull all water – Swab back 26  
Bbl – 1<sup>st</sup> HR – ( Acid Kick ) 2<sup>nd</sup> HR-Recovered Load @ 26 BBL ( Oil Show ) @ 15% -  
FL @ 2000' FS – 3<sup>rd</sup> HR-22 Bbl ( Oil @ 17% ) Shut down 15 min – FL came up to 1300'  
FS – ( Oil sample @ 22% ) – 4<sup>th</sup> HR-Recovered 26 Bbl @ 22% oil – Recovered total 100  
Bbl – 48 Bbl over load ( Oil @ 22% ) – Release PKR & POOH

11-12-07

RIH w/ MA, SN, 2 Jts 2 7/8" TBG, AC + 123 Jts 2 7/8" TBG – Set AC @ 20,000# over  
TBG WT. – RIH w/ 2 1/2" X 2" X 14' RWTC + 93 – 3/4" Rods, 61 -7/8" + 8', 4', 6', 2'  
7/8" Pony Rods, 1 1/4 X 16' Polish Rod w/ 7' Liner – Load TBG – PSI to 300# ( OK ) SN  
@ 3896' – RDMF

11-13-07

Set Lufkin 160 PT Pumping unit w/ 30 HP Electric MTR – Plumbed in well head & lay  
3" Plactic – tie into Antrim #1 – Flow line – Lay electric underground cable from Antrim  
#1 will POP to test

11-14-07

Start up pumping unit @ 8:00 AM – Running @ 10.5 spm w/64" stroke - POP

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