

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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: P. O. Box 54
City/State/Zip: Wichita, KS. 67201
Purchaser: Cooperative Refining L.L.C.
Operator Contact Person: Stan Mitchell
Phone: (316) 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: Becker #3
Original Comp. Date: 06/03/71 Original Total Depth: 4,845'
____ 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>04/17/00</u>	<u>04/20/00</u>	<u>04/21/00</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 055-20032-0001
County: Finney
SW SW SE Sec. 8 Twp. 22 S. R. 33 East West
660 feet from (S) N (circle one) Line of Section
660 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Becker Well #: 3

Field Name: Damme
Producing Formation: Pawnee, Ft. Scott, Morrow, St. Louis

Elevation: Ground: 2,893' Kelly Bushing: 2,898'
Total Depth: 4,845' Plug Back Total Depth: 4,818'
Amount of Surface Pipe Set and Cemented at 422 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 4,844' - DV @ 2,727 Feet
If Alternate II completion, cement circulated from 2,727
feet depth to surface w/ 680 COM sx cmt.
w/ 12% GEL & 7% salt

Drilling Fluid Management Plan DWWD RECEIVED 7/10/07
(Data must be collected from the Reserve Pit) KANSAS CORPORATION COMMISSION

Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used MAY 08 2000

Location of fluid disposal if hauled offsite: _____
Operator Name: _____ CONSERVATION DIVISION
WICHITA, KS
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: Stan Mitchell
Title: Production Supervisor Date: 05/04/00
Subscribed and sworn to before me this 4th day of May,
2000.
Notary Public: Jacquie D Sanders
Date Commission Expires: 01/19/03

KCC Office Use ONLY
____ Letter of Confidentiality Attached
If Denied, Yes Date: _____
____ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

JACQUIE D SANDERS
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 01-19-03

Operator Name: HARTMAN OIL CO., INC. Lease Name: Becker Well #: 3
 Sec. 8 Twp. 22 S. R. 33 East West County: Finney

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy) List All E. Logs Run: Formation Density Dual Induction CBL Gamma Ray-Neutron	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum <p style="text-align: center; font-weight: bold;">SEE ATTACHED</p>
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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	# Sacs Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	28#	422	Common	250	2% GEL + 3% CC
Production	7 7/8"	5 1/2"	14#	4,822	Common 60-40 POZ	120 200	12% GEL + 7% Salt 13% Salt

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	St. Louis - 4,701-05'	750 Gal. DSFE 15%	4,701-05'
2	Morrow - 4,622-42'	1050 Gal. Condensate	4,622-42'
4	Ft. Scott - 4,421-25'	500 Gal. DSFE 15%	4,421-25'
4	Lower Pawnee 4,394-4,400'	750 Gal. DSFE 15%	4,394-4,400'

TUBING RECORD		Size <u>2 7/8"</u>	Set At <u>4,790'</u>	Packer At <u>N/A</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>04/21/00</u>		Producing Method <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. <u>10</u>	Gas Mcf <u>-0-</u>	Water Bbls. <u>320</u>	Gas-Oil Ratio	Gravity

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled St. Louis - Morrow
Ft. Scott - Lower Pawnee

HARTMAN OIL CO.
 FINNEY COUNTY, KANSAS
 BECKER LEASE
 04/21/00

ORIGINAL

DATE
2/25/00

ZERO - 2898' KB HARTMAN OIL CO., INC.

LEASE - BECKER
WELL - BECKER # 3

FIELD - DAMME

8 1/8 CSG @ 422'
W/ 250 COMMON
W/ 2% GEL + 3% CC

LOCATION
SW-SW-SE
SEC 08-22S-33W
FINNEY CO. KS.

DV TOOL @ 2727'
680 SX COMMON 12 % GEL & 7 % SALT
CEMENT CIRCULATED TO SURFACE

TOP - 3075

LOWER PAWNEE- 4394-4400"

FT. SCOTT - 4421-25'

MORROW - 4622-42'

ST LOUIS @ 4701-05'

XXXXXXXXXX
XXXXXXXXXX

PBTD @ 4818' 120 SX COM+ 12% GEL & 7% SALT
TD @ 4845' (15.5 & 14# 200 SX 60-40 POZ + 13% SALT

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 08 2000

CONSERVATION DIVISION
WICHITA, KS

HARTMAN OIL CO.,INC.

(WORKOVER)

BECKER #3
 SW-SW-SE
 SEC. 08-22S-33W
 FINNEY CO.,KS.

4/17/00 - MIRU - GONZALES WELL SERVICE - POOH W/ RODS - PARTED ON 82nd 7/8" ROD - RIH W/ FISHING TOOL - CAUGHT FISH & PULLED OFF - CAUSED TBG TO SLIP DOWN TO FLOW-TEE - POOH W/ RODS TO PART - POOH W/ TBG TO RECOVER PUMP - HYDRO-TEST TBG IN TO 6000#

4/18/00 - RIH W/ BAKER 4" CSG GUN - PERFORATED (FT. SCOTT) @ 4421-25' - (4') 4 / SPF - PERFORATED (LOWER PAWNEE) @ 4394-4400' - (6') 4 / SPF - RIH W/ BAKER - RBP & PKR - TIGHT SPOT @ 1200' - PKR & RBP STUCK - UNABLE TO MOVE - RELEASED PKR SAFETY COLLAPSE RING & POOH W/ PKR - RIH W/ RETRIEVING HEAD & RECOVERED RBP - ROUND TRIPPED TBG - W/ 4-7/8" BIT & 5-1/2" CSG SCRAPER TO BOTTOM - RIH W/ RBP & PKR - ISOLATE - (ST. LOUIS) @ 4701-05' - ACIDIZED W/ 750 GAL 15% DSFE - FLUSHED W/ 30 BBLs 2% KCL WATER @ 4.5 BPM @ 130# - ISIP @ 80# - VAC IN 15 SEC. - SHUT IN OVER NIGHT.

4/19/00 - TBG PSI VAC - MOVED TOOLS - ISOLATE - (MORROW) @ 4622-42' - SPOT - 25 BBLs DRIP CONDENSATE (1050 GAL) - FLUSH W/ 25 BBLs 2% KCL WATER - NOTE: - 1000# PSI TO BREAK DOWN - INCREASE RATE - TREATING @ 5.75 BPM @ 1100# - BROKE TO 700# @ 5.75 BPM - ISIP @ 100# - VAC IN 15 SEC. (TOTAL LOAD 50 BBLs) - MOVED TOOLS - ISOLATE (FT. SCOTT) @ 4421-25' - SPOT 250 GAL 15% DSFE ACID - TREATED W/ 500 GAL TOTAL 15% ACID - FLUSH W/ 27 BBLs 2% KCL WATER - 700# TO BREAK DOWN - TREATING @ 5.5 BPM @ 700# - ISIP @ VAC - (TOTAL LOAD 39 BBLs) - SWAB DOWN - 20 BBLs - (GOOD SHOW OIL) - MOVED TOOLS - ISOLATE - (LOWER PAWNEE) @ 4394-4400' - SPOT 250 GAL 15% DSFE ACID - TREATED W/ 750 GAL TOTAL ACID - FLUSH W/ 27 BBLs 2% KCL WATER - FEEDING @ 1.5 BPM @ 130# - INCREASED RATE - TREATING @ 6 BPM @ 700# - NOTE: - PSI BROKE TO 250# @ 6 BPM - ISIP VAC - (TOTAL LOAD 45 BBLs) - SHUT IN / HR. - SWAB BACK 40 BBLs - ALL WATER - MOVED TOOLS ISOLATE - (FT. SCOTT 4421-25') & (LOWER PAWNEE 4394-4400') - SWAB DOWN - (GOOD SHOW OIL) - NOTE: ZONES COMMUNICATED - SHUT IN OVER NIGHT

4/20/00 - TBG PSI @ 10# - RIH W/ SWAB FLUID LEVEL @ 4100' - SWAB DOWN - (ALL OIL) - ACIDIZED (FT. SCOTT) 4421-25') & (LOWER PAWNEE 4394-4400') W/ 1000 GAL 15% ACID W/ 30 (1.3) S. G. BALL SEALERS - FLUSH W/ 32 BBLs 2% KCL WATER - TREATING @ 6 BPM @ 600# - W/ SOME BALL ACTION - ISIP VAC. - (TOTAL LOAD 55 BBLs) - SHUT IN / 1 HR. - RIH W/ SWAB FLUID LEVEL @ 3700' - SWAB 1-1/2 / HR'S. - SWAB DOWN TO 4250' - RECOVERED 25 BBLs - (GOOD SHOW OIL) - RELEASED TOOLS - TOOH W/ RBP & PKR - RIH W/ MUD ANCHOR, SEATING NIPPLE, 4 JTS. 2-7/8" TBG, ANCHOR CATCHER, 151 JTS. 2-7/8" TBG - TOTAL 155 JTS. - MUD ANCHOR - SPACED 15' OFF BOTTOM - SEATING NIPPLE @ 4790' - PRIMED PUMP W/ CORROSION INHIBITOR & RIH - LOAD TBG - PSI TO 200# - POP

ORIGINAL

BECKER NO. 3: SW SW SE 8-22S-33W
Finney County, Kansas

Geol. R. L. Schmidlapp

Elev.	<u>2898</u>	KB
	<u>2896</u>	DF
	<u>2893</u>	GR

5-3-71 Moved in and rigged up.
5-4-71 Spud at 11:30 A.M.
Ran 13 joints of used 28# casing.
(425' of 12 $\frac{1}{4}$ " hole). Set
surface casing at 422', cemented
with 250 sacks common cement,
2% gel, 2% CC.
Plug at 5:00 P.M., Globe.
Cement circulated.
5-5-71 Drilling at 700' at 7:00 A.M.
5-6-71 Drilling at 2465' at 7:00 A.M.
Glorieta 1501'
5-7-71 Drilling at 3010' at 7:00 A.M.
5-9-71 at 4165' flat with Finnup "B" No. 7
5-10-71 Elevation: 2898 RB
2896 DF
2893
HEEBNER: 3785 -887
LANS-K.C. 3829 -931
MARMATON 4316 -1418

Flat with Finnup "B" No. 7.
6' lower than Garden City "B"
at 4375'.
Will circulate at 4395'.

BECKER NO. 3

5-11-71 CHEROKEE 4434 -1536
 Flat with Finnup "B" No. 7
DRILL STEM TEST No. 1, 4394-4446,
 good blow, open 90 minutes,
 recovered 30' gassy and oil cut
 mud, 305' gas and mud cut oil, 65'
 gassy clean oil. FB-41-175.
 IBHP 892/30 minutes.
 FBHP 862/30 minutes. HH 2231.
 Temperature 109 degrees.
 Are drilling at 4460 now.
 Samples better than Finnup "B"
 No. 7. Looking for Base Cherokee
 about 4615'.

5-12-71 MORROW 4624 -1726
 Morrow - Finnup "B" No. 7 -1730
 Garden City "B" No. 1 -1715
 Going back in hole at 9:30 A.M. to
 run DST #2, 4599-4641.

5-13-71 DRILL STEM TEST No. 2, 4599-4641,
 steady weak blow throughout, open
 2 hours, recovered 120' heavy oil
 cut mud and 45' slightly oil cut
 mud. FP 30-73. No IBHP taken.
 FBHP 263/30 minutes. HH 2300.
 At 4718, will run DST #3, 4696-4718
 Tentatively calling - ⁴⁶⁹⁶
MISSISSIPPI 4690 -1792
ST. LOUIS 4702 -1804

Finnup "B" No. 7 - Mississippi -1756
 St. Louis -1801
 Garden City "B" - Mississippi -1734
 St. Louis -1799

BECKER NO. 3

- 5-14-71 DRILL STEM TEST No. 3, 4696-4718.
 strong blow, gas to surface in
 25 minutes, open 90 minutes,
 recovered total fluid 843'; 35'
 heavy mud and gas cut oil, 450'
 slight mud cut gassy oil, 320'
 slight gas cut free oil and 30'
 heavy oil cut mud.
 FP 88-275#. IBHP 323/30 minutes.
 FBHP 323/30 minutes. HH 2338.
 Circulated for samples at 4760'.
 Drilling at 4773'.
 Will drill to 4840 or 4850.
 New 14# pipe on location, testing
 now. Plan to log this evening.
- 5-15-71 Laying down drill pipe. Total
Depth 4845'. Ran Schlumberger
 Log at total depth. Will run
 casing today.
- 5-16-71 Drilling time total depth 4845'.
 Schlumberger total depth 4841'.
 Drill pipe tally, total depth
 4843.97
 Casing tally, total depth 4843.26
 Zero, Braden Head to Rotary
 Bushing 5.75
 Set pipe 1' off bottom.
 Float 1 joint off bottom.
 Baffle 2 joints off bottom
 Stage collar 2727.32, top of
 65th joint
 Cement
 Bottom stage, 120 sacks common,
 12% gel, 7% salt, 200 sacks 60-40
 pozmix, 13% salt, 25% gilsonite,
 400 cubic feet slurry.
 Top stage, 680 sacks common, 12%
 gel, 7% salt, 85# celoseal.
 1373' total slurry. Circulated
 out approximately 60 sacks.

BECKER NO. 3

Total Depth: 4845'
 Casing: 4844'

Centralizers: 4740.55
 4690
 4577.39
 4470
 4380.18
 4281.90
 4187.96
 4089.12
 3968.21
 3809.68
 2793.92
 2662.64
 2529.55
 2397.35
 1849.13

Top BH to RB: 5.75
 Float: 1 joint off bottom
 Baffle: 2 joints off bottom
 DV Tool: Top 2727.32, bottom 2729.18
 2 cement baskets, at
 2729.18 and 2011.57

ROTARY BUSHING DATA

	<u>Drilling Time</u>	<u>Electric Log</u>
ELEVATION:	2898	2898
HEEBNER:	3785 - 887	3781 - 883
LANS.-K.C.	3829 - 931	3825 - 927
BASE K.C.	4291 -1393	4287 -1389
MARMATON	4316 -1418	4311 -1413
CHEROKEE	4434 -1536	4430 -1532
BASE CHEROKEE	4624 -1726	4621 -1723
MISSISSIPPI	4681 -1783	4677 -1779
ST. LOUIS	4702 -1804	4700 -1802
RTD	4845 -1947	4841 -1943