

FORM MUST BE TYPED

Side One

ORIGINAL

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

API NO. 151-51-22,147-0000  
County Pratt  
- N/2 - N/2 - SE Sec 36 Twp 27 Rge 13 W  
2475 Feet from S Line of Section  
1480 Feet from E Line of Section

Operator: License # 3911  
Name RAMA Operating Co., Inc.  
Address P.O. Box 159  
City/State/Zip Stafford, KS 67578  
Purchaser \_\_\_\_\_  
Operator Contact Person Robin L. Austin  
Phone (316) 234-5191  
Contractor: Name Sterling Drilling Company  
License 5142  
Wellsite Geologist Steve McClain

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW OR SW (CIRCLE ONE)  
Lease Name Hess Well # 3  
Field Name Rollingson  
Producing Formation Simpson  
Elevation: Ground 1856 KB 1865  
Total Depth 4314 PBTB  
Amount of Surface Pipe Set and Cemented at 240 Ft  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set \_\_\_\_\_ Ft  
If Alternate II Completion, cement circulated from \_\_\_\_\_ Ft  
depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  Swd  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, Etc.)

Drilling Fluid Management Plan AH. 1 2-5-98 U.C.  
(Data must be collected from the Reserve Pit)

If Workover/Re-Entry: old well info as follows:  
Operator \_\_\_\_\_  
Well Name \_\_\_\_\_  
Comp Date \_\_\_\_\_ Old Total Dept \_\_\_\_\_  
 Deepening  Re-Perf.  Conv. to Inj/swd  
 Plug Back  PBTB  
 Commingled Docket NO. \_\_\_\_\_  
 Dual Completion Docket NO. \_\_\_\_\_  
 Other (SWD or Inj?) Docket NO. \_\_\_\_\_  
2/4/97 2/11/97 3/25/97

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 \_\_\_\_\_ W \_\_\_\_\_

Spud Date 2/4/97 Date Reached TD 2/11/97 Completion Date 3/25/97 County Stafford Docket No \_\_\_\_\_

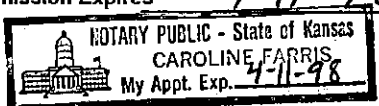
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 KS. Market, Room 2078, Wichita, KS 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side 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 [Signature]  
Title Vice-president Date 5/8/97

Subscribed and sworn to before me this 8 day of May 1997.

Notary Public Caroline Farris  
Date Commission Expires 4-11-98

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)  
Form ACO-1 (7-91)



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KANSAS CORP COMM  
5-9-97  
1997 MAY - 97  
P 1:03

*1-27-98*

SIDE TWO

Operator Name RAMA Operating Co., Inc. Lease Name Hess Well # 3

East County Pratt

Sec. 36 Twp. 27 Rge. 13  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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent To Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	3183	-1316
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heeb	3527	-1662
		Lansing	3730	-1865
		Miss Chert	4125	-2260
		Simp. Shale	4251	-2386
		Simp. Sand	4300	-2435

List All E. Logs Run:  
Dual Comp. Porosity  
Dual Ind. Log

CASING RECORD							
<input checked="" 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	14-3/4	10-3/4	32	240	60/40 poz	185	3% gel
Production	7-7/8	5 1/2	15.5	4286	50/50 poz	190	

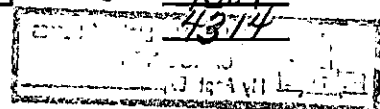
ADDITIONAL CEMENTING/SQUEEZE RECORD			
Purpose	Depth Top Bottom	Type of Cement # Sacks Used	Type and Percent Additives
Perforate			
Protect Casing			
Plug Back TD			
Plug Off Zone			
Shots Per Foot	PERFORATION RECORD-Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4307 - 4314			250 gal 7 1/2 acid with 1,000 gal hyflow

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2 3/8	4305		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.		Producing Method					
3/27/97		<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	Mcf	Water	Bbls.	Gas-Oil Ratio Gravity
	3		0		5		

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

METHOD OF COMPLETION  
 Open Hole  Perf.  
 Other (Specify)

Production Interval  
 Dually Comp.  Commingled 4307



ORIGINAL

DRILL STEM TEST RESULTS

15-151-22147

DST #1 (Toronto Limestone) - 3527' to 3560' - Straddle Test

IFP	(1402-1292)-1452	ISIP	1483	Times:	IFP 45", ISIP 60", FFP 30", FSIP 90"
FFP	1473-1480	FSIP	1485		
IHSP	1625	FHSP	1617		

Recovered 2,800' of total fluid. (all fluid had a rich condensate odor) No gas in pipe.  
720' of Drilling Mud  
180' of Slightly Watery Mud  
240' of Muddy Water  
240' of Gas Cut Muddy Water  
1420' of Gas Cut Water with a trace of mud. (Chlorides 64,000 ppm)(Sp. Gr 1.08)  
BHT = 107 degrees

Note: Bottom packer of straddle failed. Some water could have come from the Douglas sandstones.

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JOB LOG HAL-2013-C

CUSTOMER KAMM OPER. CO. INC. WELL NO. #3 LEASE HESS JOB TYPE INT. PROD. OSC. TICKET NO. 218958

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
1	0800							CHILLED OUT
	1060							ON LOCATION
	1200							P.I.C. LIFT DOWN D.P.
								P.I.C. START RUN CASING
								T.D. - 4287' LHW 4290' 5 1/2
								15 1/2" CASING SET 1" OFF BOTTOM
								RUN GUIDE SHOE, INSERT FLOAT
								IN 1ST COLLAR.
								CONTROLLED ON 3, 8, 12, 15, 20
	1400							CASING ON BOTTOM, DROP BALL
								BREAK P.I.C. WITH MUD PUMP.
	1440		20			300		HOOK UP HOWCO TO CASING
			12			300		PUMP 20 BBL CEMENT H <sub>2</sub> O
			3			300		PUMP 12 BBL SUPERFLUSH
			0			300		PUMP 3 BBL H <sub>2</sub> O SPACER
						300		START MIX CEMENT
								(100 SLS. 50/50 POZ WITH ADDITIVES)
								(65 SLS. 50/50 POZ WITH ADDITIVES)
	1455		39			200		FINISH MIX CEMENT
								SHUT DOWN
								WASH OUT LINE & RELEASE PUNG.
	1458		0			100		START DISP.
		7 1/2	80			300		LIFTING CEMENT
		3 1/2	95			500		SLOW RATE
	1512	3 1/2	102			1000		PLUG DOWN
								RELEASE - FLOAT HELD
								75 SLS. LEAD CEMENT → PLUG RAT HOLE & MOUSE HOLE
	1600							WASH UP - BACK UP
								JOB COMPLETE
								THANKS KEVIN
								ROBERT
								CLARENCE