FORM MUST BE TYPED

STATE CORPORATION COMMISSION OF KANSAS

OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

ORIGINAL

Side One

API NO. 15 - 155-21,365 - 0000

County Reno

__ - C - SW - NW Sec 22 Twp 25S Rge 9 W

2130 Feet from N Line of Section

660 Feet from W Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE, SE, NW OR SW (CIRCLE ONE)

Operator: License # 3911

Name RAMA Operating Co., Inc.

Address P.O. Box 159

City/State/Zip Stafford, KS 67578

Purchaser Texaco

Operator Contact Person Robin L. Austin

Phone(316) 234-5191

Contractor: Name Sterling Drilling

License 5142

Wellsite Geologist Wayne Lebsack

Lease Name Shaffer Well # 2-22

Field Name Langdon East

Producing Formation Mississippian

Elevation: Ground 1643 KB 1652

Total Depth 3990 PBTD 3978

Amount of Surface Pipe Set and Cemented at 179 Ft

Multiple Stage Cementing Collar Used? __ Yes X No

If yes, show depth set __ Ft

If Alternate II Completion, cement circulated from __ Ft

depth to __ w/ __ sx cmt.

acc I 3-27-96 KW

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content 15000 ppm Fluid volume 1380 bbls

Dewatering method used

Location of fluid disposal if hauled offsite:

Operator Name C & C Tank Service

Lease Name Roach SWD License No. 30708

SW Quarter Sec 14 Twp 23 S Rng 9 W

County __ Docket No __

Designate Type of Completion

X New Well __ Re-Entry __ Workover

X Oil __ Swd __ SIOW __ Temp. Abd.

X Gas __ ENHR __ SIGW

__ Dry __ Other (Core, WSW, Expl., Cathodic, Etc.)

If Workover/Re-Entry: old well info as follows:

Operator __

Well Name __

Comp Date __ Old Total Depth __

__ Deepening __ Re-Perf. Conv. to Inj/swd

__ Plug Back __ PBTD

__ Commingled Docket NO. __

__ Dual Completion Docket NO. __

__ Other (SWD or Inj?) Docket NO. __

11/4/95 11/10/95 12/4/95

Spud Date Date Reached TD Completion Date

STATE CORPORATION COMMISSION RECEIVED DEC 8 1995 CONSERVATION DIVISION Wichita, Kansas

12-18-95

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 __

Title Vice-President Date 12/11/95

Subscribed and sworn to before me this 1995

NOTARY PUBLIC - State of Kansas CAROLINE FARRIS My Appt. Exp. 4-11-98

Notary Public __

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)

SIDE TWO

Operator Name RAMA Operating Co., Inc. Lease Name Shaffer Well # 34752

[ ] East County Reno

Sec. 22 Twp. 25S Rge 9 [X] 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.)	[X] Yes	[ ] No	[X] Log	Formation (Top), Depth and Datums	[ ] Sample
Samples Sent To Geological Survey	[X] Yes	[ ] No	Name	Top	Datum
Cores Taken	[ ] Yes	[X] No	Heebner Shale	3130	-1478
Electric Log Run (Submit Copy.)	[X] Yes	[ ] No	Lansing	3341	-1689
List All E. Logs Run: Comp Density\Neutron, Fracture Finder, Sonic			BKC	3696	-2044
			Cherokee Shale	3799	-2147
			Miss. Chert	3830	-2178
			Kinderhook Shale	3905	-2253

CASING RECORD [ ] New [X] 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	8-5/8	24	179	40/60 poz	110	3% c.c.
Production	7-7/8	5-1/2	14	3988	40/60 poz	150	Mud Flush

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
3	3835-3870	Frac My-T Gell	
		130 sks 20/40	
		110 sks 12/20	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8	3900		[ ] Yes [x] No

Date of First, Resumed Production, SWD or Inj.	Producing Method				
12/5/95	[ ] Flowing	[X] Pumping	[ ] Gas Lift	[ ] Other (Explain)	

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ration	Gravity
	8		80			250	10	

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

METHOD OF COMPLETION: [ ] Open Hole [X] Perf. [ ] Dually Comp. [ ] Commingled [ ] Other (Specify)

Production Interval

ORIGINAL

15-155-21365

DRILL STEM TEST RESULTS

DST No. 1 *(56' of anchor)*			
Interval: *2309' to 2365' (Straddle Test with tailpipe setting at 2821')*			
Intervals tested: *Pony Creek Sandstone*			
Period	***Time***	***Pressure***	***Description***
IHSP		*1133*	
IFP	*30*	*46-143*	*Weak to 8" blow.*
ISIP	*30*	*967*	
FFP	*0*	*None*	
FSIP	*0*	*None*	
FHSP		*1060*	*BHT = 87 deg. F.*
Recovery:	*No Gas in the pipe.* *200' Water* *Chlorides Tester = 97,000 ppm*		

ORIGINAL
15-155-21365

DRILL STEM TEST RESULTS

DST No. 2 (32' of anchor)			
Interval: *3838' to 3870'*			
Intervals tested: *Mississippian 'B' Zone*			
Period	***Time***	***Pressure***	***Description***
IHSP		*1807*	
IFP	*30*	*56-108*	*Gas to Surface 14 minutes.* *34 MCFD -> 43 MCFD.*
ISIP	*60*	*611*	
FFP	*45*	*79-138*	*51 MCFD -> 51 MCFD (stable)*
FSIP	*60*	*603*	
FHSP		*1799*	*BHT = 117 deg. F.*

Recovery:

Gas to Surface in 14 minutes. (see below).

35' 2% Gas, 18% Oil, 80% Mud, 0% Water.
60' 5% Gas, 20% Oil, 75% Mud, 0% Water.
60' 20% Gas, 15% Oil, 20% Mud, 45% Water.
60' 12% Gas, 28% Oil, 10% Mud, 50% Water.
60' 9% Gas, 8% Oil, 13% Mud, 70% Water.

275' Total Fluid Recovered (1.67 Bbls)

% Cut = 10% Gas, 18% Oil, 36% Mud, 36% Water.

Water Chlorides Tester = 74,000 ppm

GAS FLOW VOLUMES
(See Geologist Plotted log, No gas sample taken)

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: Mid Continent
HALLIBURTON LOCATION: Pratt Ks
BILLED ON TICKET NO.: 90..

WELL DATA

FIELD ______ SEC. 22 TWP. 25S RNG. 9W COUNTY Reno STATE Ks

FORMATION NAME ______ TYPE ______
FORMATION THICKNESS ______ FROM ______ TO ______
INITIAL PROD: OIL ______ BPD. WATER ______ BPD. GAS ______ MCFD
PRESENT PROD: OIL ______ BPD. WATER ______ BPD. GAS ______ MCFD
COMPLETION DATE ______ MUD TYPE ______ MUD WT. ______
PACKER TYPE ______ SET AT ______
BOTTOM HOLE TEMP. ______ PRESSURE ______
MISC. DATA ______ TOTAL DEPTH ______

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		14	5 1/2	0	3990	
LINER						
TUBING						
OPEN HOLE			7 7/8	KB	3990	SHOTS/FT.
PERFORATIONS						
PERFORATIONS			ORIGINAL			
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 11-10	DATE 11-10	DATE 11-11	DATE 11-11
TIME 1630	TIME 1945	TIME 24 HZ	TIME 0230

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
~~FLOAT COLLAR~~ Insert	1	H.C.S.
~~FLOAT SHOE~~ Auto Fill	1	H.C.S.
GUIDE SHOE	1	H.C.S.
CENTRALIZERS		H.C.S.
BOTTOM PLUG		
TOP PLUG	1	H.C.S.
HEAD	1	H.C.S.
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
M Ballard 53846	PK 38423	Pratt Ks
T. Seba Giles	Comm. 52504	Pratt Ks
K. Nash	Bulk 4913	Pratt Ks

MATERIALS

TREAT. FLUID ______ DENSITY ______ LB/GAL.°API
DISPL. FLUID ______ DENSITY ______ LB/GAL.°API
PROP. TYPE ______ SIZE ______ LB. ______
PROP. TYPE ______ SIZE ______ LB. ______
ACID TYPE ______ GAL. ______ %
ACID TYPE ______ GAL. ______ %
ACID TYPE ______ GAL. ______ %
SURFACTANT TYPE ______ GAL. ______ IN ______
NE AGENT TYPE ______ GAL. ______ IN ______
FLUID LOSS ADD. TYPE ______ GAL.-LB. ______ IN ______
GELLING AGENT TYPE ______ GAL.-LB. ______ IN ______
FRIC. RED. AGENT TYPE ______ GAL.-LB. ______ IN ______
BREAKER TYPE ______ GAL.-LB. ______ IN ______
BLOCKING AGENT TYPE ______ GAL.-LB. ______
PERFPAC BALLS TYPE ______ QTY. ______
OTHER ______
OTHER ______

...IVED ...COMMISSION ... 1995 ... CONSERVATION DIVISION

DEPARTMENT: Cement
DESCRIPTION OF JOB: Cmt 5 1/2" Prod. Csg.

JOB DONE THRU: TUBING ☐ CASING ☑ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X ______

HALLIBURTON OPERATOR: M R Ballard
COPIES REQUESTED ______

CEMENT DATA

STAGE	NUMBER OF SACKS	~~CEMENT~~	~~BRAND~~	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	150	Halco. 60 STD			2% Gel 10% Salt .75% Halad 322		
					5# Gilsonite	1.33	14.15

SUMMARY

PRESSURES IN PSI

CIRCULATING ______ DISPLACEMENT ______
BREAKDOWN ______ MAXIMUM ______
AVERAGE ______ FRACTURE GRADIENT ______
SHUT-IN: INSTANT ______ 5-MIN. ______ 15-MIN. ______

HYDRAULIC HORSEPOWER

ORDERED ______ AVAILABLE ______ USED ______

AVERAGE RATES IN BPM

TREATING ______ DISPL. ______ OVERALL ______

CEMENT LEFT IN PIPE

FEET 21.75 REASON Insert

VOLUMES

PRESLUSH: BBL.-~~GAL.~~ 20 / 12 TYPE Salt / Super Flush
LOAD & BKDN: BBL.-GAL. ______ PAD: BBL.-GAL. ______
TREATMENT: BBL.-GAL. ______ DISPL: BBL.-~~GAL.~~ 97.14
CEMENT SLURRY: BBL.-~~GAL.~~ 35.53
TOTAL VOLUME: BBL.-GAL. ______

REMARKS

FIELD OFFICE

LEASE: Stanley Ranch... WELL NO.: 2-22 JOB TYPE: Cement DATE: 11-10-94

FORM 2025-R4

HALLIBURTON

JOB LOG HAL-2013-C

DATE 11-10-95

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Samson Oil	2-32	Shafer	Cement	30743

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE(PSI) TUBING	PRESSURE(PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0630							ARRIVED OUT
	1945							ON LOCATION
								RU CASING CREW ETC
								SET UP EQUIP
	2210							RUN 8 5/8 GUIDE SHOE INSERT &
								FILL UP 2 CENTRALIZERS ON BOTTOMS
			ORIGINAL					1-3-5-10-11-12
								BREAK CIRC.
	2442	6	0				300	PUMP FRESH
			5					38 BBLS SALT H2O
			35					12 BBLS SUPERFLUSH
	2452		0					MIX CMT
	2454		5					PUMP CEMENT
	2458	6	8				275	PUMP CMT DOWN CSG
			5					
	0109		35.5					FINISH MIX SHUT DN
	0110							FINISH LINES WASH PUMP
	0113	2	0					START DISP
		5	30				150	
		4	31					REDUCE FOR SLOW RATE
		2	94				400	
	0131		97.9				700	PLUG DOWN
							C	RELEASE & HELD
								WASH UP
								RIG UP
	0230							JOB DONE.

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DEC 12 1995
CONSERVATION DIVISION

FIELD OFFICE

HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION: Mid-Cont
HALLIBURTON LOCATION: Pratt KS
BILLED ON TICKET NO.: 83

WELL DATA

FIELD ____ SEC. 22 TWP. 25 RNG. 9 COUNTY Reno STATE KS

FORMATION NAME ____ TYPE ____
FORMATION THICKNESS ____ FROM ____ TO ____
INITIAL PROD: OIL ____ BPD. WATER ____ BPD. GAS ____ MCFD
PRESENT PROD: OIL ____ BPD. WATER ____ BPD. GAS ____ MCFD
COMPLETION DATE ____ MUD TYPE ____ MUD WT. ____
PACKER TYPE ____ SET AT ____
BOTTOM HOLE TEMP. ____ PRESSURE ____
MISC. DATA ____ TOTAL DEPTH ____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N		8 5/8	KB	180	
LINER						
TUBING						
OPEN HOLE			12 1/4	180	182	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 11-4	DATE 11-4	DATE 11-4	DATE 11-4
TIME 0830	TIME	TIME 1330	TIME 1400

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG CP-1 Wooden	1	Howco
HEAD & manifold	1	"
PACKER 8 5/8 Swage	1	"
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Scott B9475	41278 P/U	Pratt KS
L. Garner 62723	52504 Comb	" "
S. Orlando 41785	7488 Bulk	" "

ORIGINAL

MATERIALS

TREAT. FLUID ____ DENSITY ____ LB/GAL.-°API
DISPL. FLUID ____ DENSITY ____ LB/GAL.-°API
PROP. TYPE ____ SIZE ____ LB.
PROP. TYPE ____ SIZE ____ LB.
ACID TYPE ____ GAL. ____ %
ACID TYPE ____ GAL. ____ %
ACID TYPE ____ GAL. ____ %
SURFACTANT TYPE ____ GAL. ____ IN ____
NE AGENT TYPE ____ GAL. ____ IN ____
FLUID LOSS ADD. TYPE ____ GAL.-LB. ____ IN ____
GELLING AGENT TYPE ____ GAL.-LB. ____ IN ____
FRIC. RED. AGENT TYPE ____ GAL.-LB. ____ IN ____
BREAKER TYPE ____ GAL.-LB. ____ IN ____
BLOCKING AGENT TYPE ____ GAL.-LB. ____
PERFPAC BALLS TYPE ____ QTY. ____
OTHER ____
OTHER ____

DEPARTMENT: Cmt
DESCRIPTION OF JOB: 8 5/8 Surface

JOB DONE THRU: TUBING ☐ CASING ☐ ANNULUS ☐ TBG./ANN. ☐

CUSTOMER REPRESENTATIVE X K. L. Thompson

HALLIBURTON OPERATOR D. Scott COPIES REQUESTED ____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	110	40-60	Poz	B	2% Gel 3% CC	1.28	14.1

SUMMARY

PRESSURES IN PSI

CIRCULATING 175 DISPLACEMENT 165
BREAKDOWN ____ MAXIMUM 1000
AVERAGE ____ FRACTURE GRADIENT ____
SHUT-IN: INSTANT ____ 5-MIN. ____ 15-MIN. ____

HYDRAULIC HORSEPOWER

ORDERED ____ AVAILABLE ____ USED ____

AVERAGE RATES IN BPM

TREATING ____ DISPL. ____ OVERALL ____

CEMENT LEFT IN PIPE

FEET 10 REASON Requested

VOLUMES

PRESLUSH: BBL.-GAL. 5 TYPE H2O
LOAD & BKDN: BBL.-GAL. ____ PAD: BBL.-GAL. ____
TREATMENT: BBL.-GAL. ____ DISPL: BBL.-GAL. 10.8
CEMENT SLURRY: BBL.-GAL. 25
TOTAL VOLUME: BBL.-GAL. ____

REMARKS

See Job Log

FIELD OFFICE

FORM 2025-R4

CUSTOMER: Reno Oper Co Inc
LEASE: Schaffer
WELL NO.: 2-22
JOB TYPE: 8 5/8 Surface
DATE: 11-4-95

HALLIBURTON

JOB LOG HAL-2013-C

DATE 11-4-05

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Rosa Oper Co Llc	1-22	Schaffer	8 5/8 Surface	825547

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE(PSI) TUBING	PRESSURE(PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0830							Called Out
				ORIGINAL				On Loc w/Trk's Safety Mtg
								Break Circ
	1330	5	5		✓		100	Pump H2O spacer
	1335	5			✓		100	St mixing Cmt @ 14.1 PPG
	1345	-0-	25		✓		-0-	Finish mixing Cmt
	1347				✓		-0-	Close In - Release Top Plug
	1348	5			✓		100	St Disp w/H2O
	1355	-0-	10.8		✓		150	Plug Down
	1358				✓		150	Close In manifold
								Circ 0 Bbls Cmt = 0 sks
								Jet Cellar Good Cmt Returns
								Chart Didn't Work
								Job Complete
								Thank You
								Dave Scott

FIELD OFFICE