

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

ORIGINAL

API NO. 15-095-21665-0000

Operator: License # 3911 9764
Name: RAMA Operating Co. Inc
Address P.O. Box 159

City/State/Zip Stafford, KS 67578
Purchaser: NCRA

Operator Contact Person: Robin L. Austin
Phone 316 234-5191

Contractor: Name: Duke Drilling Co.
License: 5929

Wellsite Geologist: Lebsack/McClain

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 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 PBDT
 Casingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. D-26,6487
07-18-92 07-26-92 09-12-92
Spud Date Date Reached TD Completion Date

County Kingman
C-S/2-Sw Sec. 13 Twp. 27 Rge. 10 X E

660 Feet from (S)N (circle one) Line of Section
3960 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 Milburn Well # A-2

Field Name Dresden

Producing Formation Arbuckle

Elevation: Ground 1737 KB 1742

Total Depth 4550 PBDT _____

Amount of Surface Pipe Set and Cemented at 305 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ ex cat.

Drilling Fluid Management Plan AS 1 12-1-88 DW
(Data must be collected from the Reserve Pit)

Chloride content 8000 ppm Fluid volume 300 bbls

Dewatering method used hauled off fluids

Location of fluid disposal if hauled offsite: _____

Operator Name Suburban Service

Lease Name U.K. License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 [Signature]
Title V.P. Date 10-26-92
Subscribed and sworn to before me this 26th day of October, 1992.
Notary Public Billie Postier
Date Commission Expires _____
My Appt. Expires 2-24-96

REC-10-28-92
K.C.C. OFFICE USE ONLY
RECEIVED
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
DISTRIBUTION
OCT 28 1992
KCC SVD/Rep NGPA
KGS P/G
PLG
WICHITA, KANSAS

SIDE TWO

Operator Name RAMA Operating Co. Inc.

Lease Name Milburn

Well # A-2

Sec. 13 Twp. 27 Rge. 10

East
 West

County Kingman

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 Yes No
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datum Sample
Name Top Datum
Attached

List All E.Logs Run:
Dual Induction; Comp Density; Comp Neutron Log; Microlog; Coral

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	28	305	Pozmix	185	60/40 2% gel
Production	7 7/8	5 1/2	15.50	4485	Pozmix	125	60/40 10% sa

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
O.H.	4485-4550		750 gal. 15% F.E.	4485-4550

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2 3/8	4437	4437				
Date of First, Resumed Production, SWD or Inj.			Producing Method					
09-12-92			<input type="checkbox"/> Flowing <input 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

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

METHOD OF COMPLETION
 Open Hole Perf. Dually Comp. Commingled

Production Interval

ORIGINAL

DRILL STEM TEST RESULTS

DST No. 1 and 2
Interval: 4272' to 4283' (11' of Anchor)
Intervals tested: Upper Viola Dolomite

* DST #1 was a misrun, a bridge was encountered 75' off bottom in the Kinderhook Shale/Limestone and the tool could not push through. After DST #1 was attempted, the bit was run down to the bridge and the bridge would hold the weight of the string. When the kelly was attached and mud was pumped while reaming, the bridge was not encountered and TD (4283) was reached. Heavy mud was then spotted 1000' up from bottom.

DST #2 was a misrun, a similar bridge was hit 65' off bottom and the anchor could not push through. Six inches of packed sample cuttings were found on the bottom of the anchor and the tool was partially plugged with cuttings. The decision was made to drill to the Simpson Sandstone and attempt a DST there if a show is favorable.

DST No. 3			
Interval: 4338' to 4384' (46' of Anchor)			
Intervals tested: Upper Simpson Sandstone			
Period	Time	Pressure	Description
IHSP		2241	
FHSP		2241	BHT = 114 deg. F.
Recovery:	No Recovery, tool plugged. No accurate pressure data obtained. Testing times 30-15-15-30.		

RECEIVED
STATE CORPORATION COMMISSION
OCT 28 1992
CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

GEOLOGICAL FORMATION TOPS

FORMATION TOP	ELECTRIC LOG DEPTH	DRILLING TIME DEPTH	SUB-SEA DEPTH (E-LOG)
Onaga Shale	2354	2356	-612
Topeka Limestone Top	2954	2954	-1212
Heebner Shale	3306	3310	-1564
Brown Limestone	3484	3484	-1742
Lansing Top	3492	3493	-1750
BKC	3890	3890	-2148
Cherokee Shale	4003	4008	-2261
Mississippian Chert	4046	4044	-2304
Mississippian Ls	4062	4058	-2320
Kinderhook Shale	4083	4082	-2341
Viola Dolomite	4278	4277	-2536
Simpson Shale	4362	4362	-2620
#1 Simpson Sandstone	4373	4373	-2631
#2 Simpson Sandstone	None	None	None
Arbuckle Dolomite	4461	4460	-2719
Total Depth	4550	4550	-2808

RECEIVED
STATE CORPORATION COMMISSION

OCT 28 1992

DIVISION
Kansas

LOG

WELL NO. 4-2 LEASE MELBURN TICKET NO. 214767
 CUSTOMER RAMA INC PAGE NO. _____
 JOB TYPE 5 1/2" LONGSTRETCH DATE 7-27-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0600							Called out - Ready now
	0700							on loc - DP LAYED DOWN - REG UP TO RUN CASING
	0840							Start casing in hole
	1030							Casing in hole - Hook up to core w/ Rec Pump
	1106	5.0	12	✓	✓		300	Run Mud Flush
	1111	5.0	5	✓	✓		300	Run Fresh Water Spacer
	1113	6.0	31.2	✓	✓		425	Mud Cut
	1118							Forward Mixwater - Release Plug - Wash out pump & lines
	1123	7.0	106.6	✓	✓		200	Displace Annular
	1138			✓			1100	Plug Down - Release Press. Test Hood
	1145		3.1	✓			1100	Run Back Hole w/ 15' x 15' Standard - Wash up
	1230							Job Complete

THANKS
- RMB

RECEIVED
STATE CORPORATION COMMISSION

OCT 28 1992

CUSTOMER

WICINITA DIVISION
Wichita, Kansas

DISTRICT KS ORIGINAL DATE 7-27-92

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: RAMA LINER 3 1/2 (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. A-2 LEASE Mar B... SEC 13 TWP. 27 RANGE 10W

COUNTY Keokuk STATE KS OWNED BY

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		11420	15.5	5 1/2	KB	4485	
LINER					ICE UNITS		
TUBING							
OPEN HOLE							SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement 5 1/2" Production casing w/ 125 SLS of 40-60 Pps
Contractor 10% SALT 5" Casing for 4 5/8" Head-322, well
Runs 500 gal Mud Fresh Ahead of Cement well plug 1/2" w/ 15 SLS STANDARD.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law.
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED Edward Williams CUSTOMER

RECEIVED STATE CORPORATION COMMISSION

DATE 7-27-1992

TIME A.M.

certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

OCT 20 1992

CONSERVATION DIVISION
Wichita, Kansas

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

3107

Home Office P. O. Box 31

Russell, Kansas 67665

New

7-19-92

7-19-92

Date	7-14-92	Sec.	13	Twp.	27	Range	10	Called Out	6:00 PM	On Location	4:30 PM	Job Start	12:00 AM	Finish	12:30 AM
Lease	Milburn	Well No.	A * 2	Location	Cunningham	3E 4N 15	County	Kingman	State	KS					
Contractor	Duke Drilling P. O. #1														
Type Job	Surface P. O. Job														
Hole Size	12 1/4	T.D.	306 ft												
Csg.	2 7/8	Depth	305 ft												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15 ft	Shoe Joint													
Press Max.		Minimum													
Meas Line	290 ft	Displace	18.0 bbl												
Perf.															

Owner
 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 listed.

Charge To
 To STIPCO Inc

Street
 City
 State

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X Leonard Williams Hook
 797

CEMENT

Amount Ordered
 185 60 279 37 cc

Consisting of
 Common
 Poz. Mix
 Gel.
 Chloride
 Quickset

Sales Tax

Handling

Mileage

Sub Total

Total

Floating Equipment

EQUIPMENT
 Great Bend

Pumptrk	No. 120	Cementer	M. H. J.
		Helper	Russ
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	222	Driver	Jock
Bulktrk		Driver	

DEPTH of Job 305 ft

Reference:	Pump Truck charge	
	Mileage charge	
1	4 1/2 wood on plug	
	Sub Total	
	Tax	
	Total	

Remarks: Cement did Circulate
 still Drilling 200 ft deep

Allied Cementing Co. Inc
 Mike Murdock
 Hook
 797
 49

RECEIVED
 COMMISSION

JUL 28 1992

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

3107

Home Office P. O. Box 31

Russell, Kansas 67665

New

7-19-92

7-19-92

Date	7-14-92	Sec.	13	Twp.	27	Range	10	Called Out	6:30 pm	On Location	6:30 pm	Job Start	12:30 pm	Finish	12:30 pm
Lease	Milburn	Well No.	A-2	Location	Cunningham	3E 4N 15	County	Kingman	State	KS					

Contractor	Duke Drilling P.O. #1
Type Job	Surface Pipe Job
Hole Size	12 1/4
T.D.	306 ft
Csg.	28" 8 5/8
Depth	305 ft
Tbg. Size	
Depth	
Drill Pipe	
Depth	
Tool	
Depth	
Cement Left in Csg.	15 ft
Shoe Joint	
Press Max.	
Minimum	
Meas Line	290 ft
Displace	18.0 bbl
Perf.	

Owner	
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 listed.	
Charge To	STAPCO Inc
Street	
City	
State	
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
x Leonard Williams Frank you 3/5/92	
CEMENT	
Amount Ordered	185 60 279 37 cc
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	
Floating Equipment	

EQUIPMENT

Great Bend		
Pumptrk	No.	Cementor
	120	Mike
		Helper
		Duke
Pumptrk	No.	Cementor
		Helper
		Jack
Bulktrk	222	Driver
Bulktrk		Driver

DEPTH of Job	305 ft
Reference:	
	Pump Truck chassis
	Miles charge
	1 48 wood on plug
	Sub Total
	Tax
	Total

Remarks: Cement did circulate
 still Drilling 200 ft deep

Allied Cementing Co. Inc
 Mike Murack

Frank you 3/5/92

RECEIVED
 STATE CORPORATION COMMISSION

OCT 28 1992

DIVISION
 Wichita, Kansas