

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- 095-21664-0000  
County Kingman  
SW-SW-SW Sec. 13 Twp. 27 Rge. 10 X <sup>E</sup>

Operator: License # 3911  
Name: RAMA Operating Co. Inc  
Address P.O. Box 159  
Stafford, KS 67578  
Purchaser: NCRA

330 Feet from (S) (circle one) Line of Section  
330 Feet from (W) (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or (SW) (circle one)

Operator Contact Person: Robin L. Austin  
Phone (316) 234-5191  
Contractor: Name: Duke Drilling Co.  
License: 5929  
Wellsite Geologist: Lebsack/McClain

Lease Name Milburn Well # A-1  
Field Name Dresden  
Producing Formation Viola  
Elevation: Ground 1751 KB 1756

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  S1OW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

Total Depth 4540 PBDT 4497  
Amount of Surface Pipe Set and Cemented at 319 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 cnt.

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  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
7-01-92 07-10-92 09-02-92  
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan DRD 11-20-92  
(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 7-7-92  
Subscribed and sworn to before me this 7th day of October, 19 92  
Notary Public Billie Postner

RCD 10-8-92 RECEIVED  
K.C.C. OFFICE USE ONLY CORPORATION COMMISSION  
F  Letter of Confidentiality Attached  
C  Wireline Log Received OCT 8 1992  
C  Geologist Report Received  
Distribution CONSERVATION DIVISION  
 KCC  SWD/Rep  Other  
 KGS  Plug  Other (Specify)  
PI

Date Commission Expires 2-21-96  
Notary Public - State of Kansas  
My Appt. Expires 2-21-96

SIDE TWO

Operator Name RAMA Operating Co. Inc. Lease Name Milburn Well # A-1

Sec. 13 Twp. 27 Rge. 10  East  West County Kingman

ORIGINAL

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	319	Pozmix	185	60/40 2% gel
Production	7 7/8	5 1/2	15.50	4497	Pozmix	150	60/40 10% sal.

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	4288-92	250 gal. 15% NE 4288-92

TUBING RECORD	Size	Set At	Packer At	Liner Run				
	2 7/8	4250		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date of First, Resumed Production, SWD or Inj.	Producing Method							
9-12-92	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Submersible		Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	10		0		900			U.K.

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

METHOD OF COMPLETION  
 Open Hole  Perf.  Dually Comp.  
 Other (Specify)

Production Interval  
Commingled 4288-92

**GEOLOGICAL FORMATION TOPS**

FORMATION TOP	ELECTRIC LCG DEPTH	DRILLING TIME DEPTH	SUB-SEA DEPTH (E-LOG)
Onaga Shale	2377	2375	-621
Topeka Limestone Top	2974	2972	-1219
Heebner Shale	3324	3322	-1568
Brown Limestone	3500	3497	-1744
Lansing Top	3508	3505	-1752
BKC	3901	3900	-2145
Cherokee Shale	4012	4015	-2256
Mississippian Chert	4030*	4026	-2274*
Mississippian Ls	4073	4069	-2317
Kinderhook Shale	4093	4091	-2337
Viola Dolomite	4288	4285	-2532
Simpson Shale	4368	4374	-2612
#1 Simpson Sandstone	4382	4380	-2626
#2 Simpson Sandstone	4394	4392	-2638
Arbuckle Dolomite	4466	4466	-2710
Total Depth	4543	4540	-2787

\* Call is 2' lower than on Geological plotted log.

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OCT 8 1992

CONSERVATION DIVISION  
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

ORIGINAL

**DRILL STEM TEST RESULTS**

<b>DST No. 1</b>			
<b>Interval:</b> 3990' to 4035' (45' of Anchor)			
<b>Intervals tested:</b> Upper Mississippian			
<b>Period</b>	<b>Time</b>	<b>Pressure</b>	<b>Description</b>
IHSP		2022	
IFP	30	33-33	Fair blow to 6½" in bucket.
ISIP	45	88	Not increasing.
FFP	45	33-33	Weak blow to 2½" in bucket.
FSIP	60	111	Not building.
FHSP		1988	BHT = 122 deg. F.
<b>Recovery:</b>	420' Gas in the pipe. 5' Mud (No shows)		

<b>DST No. 2</b>			
<b>Interval:</b> 4035' to 4055' (20' of anchor )			
<b>Intervals tested:</b> Middle Mississippian			
<b>Period</b>	<b>Time</b>	<b>Pressure</b>	<b>Description</b>
IHSP		2033	
IFP	30	55-55	Surface blow.
ISIP	45	77	Not building.
FFP	15	55-55	Surf. blow died in 2"
FSIP	30	66	Not building.
FHSP		1988	BHT = 122 deg. F.
<b>Recovery:</b>	60' Very Slightly Oil Spotted Mud with a show of Oil on top of the tool.		

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CONSERVATION DIVISION  
MARTIN, KANSAS

**DRILL STEM TEST RESULTS**

<b>DST No. 3</b>			
<b>Interval: 4279' to 4293' (14' of Anchor)</b>			
<b>Intervals tested: Upper Viola</b>			
<b>Period</b>	<b>Time</b>	<b>Pressure</b>	<b>Description</b>
<b>IHSP</b>		2177	
<b>IFP</b>	30	233-577	Blow off bottom of bucket in $\frac{1}{2}$ ", GTS in 30 min.
<b>ISIP</b>	45	1140	Stabilized.
<b>FFP</b>	30	665-831	GTS - 4.8 MCFD.
<b>FSIP</b>	60	1140	Stabilized.
<b>FHSP</b>		2155	BHT = 130 deg. F.
<b>Recovery:</b>	240' 70%Oil, 15%Gas, 10%Water, 5%Mud. 60' 25%Oil, 30%Gas, 0%Water, 45%Mud. 60' 10%Oil, 5%Gas, 80%Water, 5%Mud. 1560' Water (Chlorides 53,000ppm) ===== 1920' Total Fluid * This calculates out to about a 10% oil cut. Oil Gravity= 39 deg.		

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**ORIGINAL OCT 8 1992**

CONSERVATION DIVISION  
SUNSHINE, KENTON

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

1823

Home Office P. O. Box 31

Russell, Kansas 67665

*New*

Date	7-1-92	Sec.	13	Twp.	27	Range	10	Called Out	8 <sup>30</sup> AM	On Location	11 <sup>30</sup> AM	Job Start	1 <sup>40</sup> AM	Finish	1 <sup>30</sup> PM	
Lease	Milburn	Well No.	A-1	Location				Cunningham 3E 4N E13	County	Kingman	State	KS				

Contractor	Duke Drilling Rig #1	
Type Job	Surface Pipe Job	
Hole Size	12 1/4	T.D.
Csg.	8 3/8	Depth
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	15 #	Shoe Joint
Press Max.		Minimum
Meas Line	303 #	Displace
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	Stepco Inc
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	Leonard Williamson Thank You
	CEMENT
Amount Ordered	185 <sup>60</sup> / <sub>100</sub> 22 gal 37 cc
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	
Floating Equipment	

EQUIPMENT		
Pumptrk	No.	Cementer
	120	Mills
		Helper
		Host
Pumptrk	No.	Cementer
		Helper
Bulktrk	68	Driver
Bulktrk		Driver
		Yancy

DEPTH of Job	318 #
Reference:	Pump Truck Charge
	Milage Charge
1	8 3/8 Wooder Plug
	Sub Total
	Tax
	Total

Remarks: Cement did Circulate

Amount Ordered	185 <sup>60</sup> / <sub>100</sub> 22 gal 37 cc
Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
Sales Tax	
Handling	
Mileage	
Sub Total	
Total	
Floating Equipment	

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OCT 8 1992

CONSERVATION DIVISION  
Wichita, Kansas

Allied Cementing Co. Inc. Thank You  
311 E 29th St

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

PROJECT: Peak, KS COUNTY: ... DATE: 7-10-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: RAMMA (CUSTOMER)

WELL NO. A-1 LEASE Mizewell SEC 13 TWP 27S RANGE 10W

FIELD ... COUNTY ... STATE KS OWNED BY ...

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE AND SIZE, TYPE, THICKNESS, FROM, TO, PACKER TYPE, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD, PRESENT PROD.

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I., CASING, LINER, TUBING, OPEN HOLE, 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/ 150 sks of 40-60 Pz ... 10% SUR 5% HALAD 322 of 5" CASING E/SK. WELL RUN 500 GAL MOTOFLUSH AHEAD OF CEMENT 15 SKS OF STANDARD TO PLUG RAHORE

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.
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 for:
1. 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.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. 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.
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.
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.
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.
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.

ORIGINAL

SIGNED [Signature] RECEIVED CUSTOMER RATE REGULATION COMMISSION

DATE July 10, 1992 TIME P.M.

We 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 8 1992 CONSERVATION DIVISION

# SERVICES LOG

WELL NO. A-1 LEASE ALBUEN TICKET NO. 214761

CUSTOMER KAMMA PAGE NO. 6

2013 R-2 JOB TYPE 5 1/2" Reamstring DATE 7-10-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0130							Carried out - Ream string
	0710							on loc - Ream string down
								Drill pipe - Set up
	0745							Drill pipe out of hole - Ream
								up to Pump Csg
	0850							Start Csg in hole
	1040							Casings in hole - Hook up & Break Csg w/ Ream Pump
	1107	4.0	172	✓	✓		500	Run Mud Finish Ahead
	1110	3.0	5	✓	✓		400	Run Water Spacer
	1114	6.25	37.4				650	Mix Cement
	1120							Forward Mix into - Release Plug
								- Wash out Pump & Lines
	1125	6.5	107	✓	✓		800	Displace Plug
	1141			✓	✓		1150	Plug Down - Release Press
								- First Hard
			3.15	✓	✓			- Plug Patch w/ 15% STD
								- Wash up
	1230							Job Complete
								THANKS - Ream

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Wichita, Kansas