

ORIGINAL

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

API NO. 15- 175-21,602 ~~00-00~~

County Seward

100'-FNL - 990' FWL Sec. 21 Twp. 33S Rge. 32 X W

Operator: License # 5263

100' Feet from N (circle one) Line of Section

Name: Midwestern Exploration Company

990' Feet from E (circle one) Line of Section

Address P.O. Box 1884

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

City/State/Zip Liberal, KS 67905

Lease Name Colburn Well # 3-21

Field Name N. Arkalon

Producing Formation CHASE

Elevation: Ground 2631' KB 2635'

Total Depth 3150' PBDT 2540'

Amount of Surface Pipe Set and Cemented at 572 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan AH 1, 9-8-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 31,000 ppm Fluid volume 300 bbls

Dewatering method used Evaporazation

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

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/Reentry: Old Well Info as follows:  
Operator: N/A  
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. \_\_\_\_\_  
03-06-97 03-11-97 03-13-97  
Spud Date Date Reached TD Completion Date

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 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 Chuck Redmon  
Title CHUCK REDMON  
PETROLEUM ENGINEER Date 7/21/97

Subscribed and sworn to before me this 21 day of July, 1997.

Notary Public Virginia Means

Date Commission Expires March 6, 1999

K.C.C. OFFICE USE ONLY July 7-28-98  
F  Letter of Confidentiality Attached Dpw  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)



ORIGINAL

SIDE TWO

Operator Name Midwestern Exploration Company Lease Name Colburn Well # 3-21

Sec. 21 Twp. 33 Rge. 32  East  West County Seward

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.)  
List All E.Logs Run:  
DIL/GR, CDL/CNL/CAL, MEL

Name	Top	Datum
HERRINGTON	2424'	+ 211
UPPER KRIDER	2458'	+ 177
LOWER KRIDER	2494'	+ 141
UPPER FT. RILEY	2536'	+ 99
LOWER FT. RILEY	2616'	+ 19
COUNCIL GROVE	2838'	- 200

CASING RECORD  New  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 1/4"	8 5/8"	24#	572'	Halliburton Lite	120	3% cc, 1/4# floeal
					Class 'H'	100	2% cc, 1/4# floeal
Production	7-7/8"	4-1/2"	10.5#	2982'	50/50 POZ	200	10% 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	2426'-2432'	Acidized all perms	2426'-2512'
2	2458'-2473'	w/3500 gal 7-1/2% HCL	
2	2496'-2512'	Mud Acid	

TUBING RECORD Size Set At Packer At Liner Run  Yes  No

Date of First, Resumed Production, SMD or Inj. Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
(If vented, submit ACO-18.)  Other (Specify)

\*WAITING ON PIPELINE HOOKUP TO PERFORM RATE TEST.

AMERICAN OIL & GAS CO. Seward, Nebraska



**HALLIBURTON ENERGY SERVICES**

HAL-1906-P

CHARGE TO  
ADDRESS *Midwestern Exploration*  
CITY, STATE ZIP CODE

CERIAL - DUNCAN COPY TICKET

No. 185785 - 6

PAGE 1 OF 2

SERVICE LOCATIONS 1. <i>02534 Liberal</i>	WELL/PROJECT NO <i>3-21</i>	LEASE <i>COBURN</i>	COUNTY/PARISH <i>SEWARD</i>	STATE <i>KS</i>	CITY/OFFSHORE LOCATION <i>N. LIBERAL</i>	DATE <i>3-7-97</i>	OWNER <i>SAME</i>
2. <i>02535 Hugoton</i>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <i>ABERGROMBIE DRUG</i>	RIG NAME/NO <i>45</i>	SHIPPED VIA <i>CT</i>	DELIVERED TO <i>WELL SITE</i>	ORDER NO
3.	WELL TYPE <i>02 BUS</i>	WELL CATEGORY <i>01 DEVELOPMENT</i>	JOB PURPOSE <i>010-8 1/2 SURFACE</i>	WELL PERMIT NO	WELL LOCATION <i>LAND 21-335-324</i>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <i>PAID BY CHECK # 55083 \$5076.66</i>					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
000-117		1			MILEAGE	44	mi	R/T	2.99	131.56
000-119		1			CREW MILEAGE	44	mi	R/T	1.60	70.40
001-016		1			Pump CHARGE	567	FT	6 WRS	915.00	915.00
030-018		1			5" W TOP PLUG	1	EA	8 7/8 IN	130.00	130.00
12A	825-317	1			SLIP JT Guide SHOE	1	EA	8 7/8 IN	300.00	300.00
24A	815-19502	1			INSERT BOLT	1	EA	8 7/8 IN	221.00	221.00
27	815-19415	1			FILL UP ASSY	1	EA	1.50 IN	64.00	64.00
40	806-61048	1			CENTRALIZER	6	EA	8 7/8 IN	61.00	366.00
350	890-10802	1			WELD A	1	EA	40	16.75	16.75

ORIGINAL

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

*[Signature]*  
DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_

A.M.  
 P.M.

do not require IPC (Instrument Protection).  Not offered

SUB SURFACE SAFETY VALVE WAS  
 PULLED & RETURN  PULLED  RUN

TYPE LOCK	DEPTH
BEAN SIZE	SPACERS
TYPE OF EQUALIZING SUB.	CASING PRESSURE
TUBING SIZE	TUBING PRESSURE
TREE CONNECTION	WELL DEPTH
	TYPE VALVE

*62-11-27 27 300 111*  
*MINN KANSAS CONP CONM*

**SURVEY**    AGREE    UN-DECIDED    DIS-AGREE

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
WE UNDERSTOOD AND MET YOUR NEEDS?  
OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
ARE YOU SATISFIED WITH OUR SERVICE?  
 YES     NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	2214	71
FROM CONTINUATION PAGE(S)	4452	01
	6666	17
SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	4666	17

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE)	HALLIBURTON OPERATOR/ENGINEER	EMP #	HALLIBURTON APPROVAL
	<i>[Signature]</i>	<i>[Signature]</i>	62573	<i>[Signature]</i>



HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

TICKET No. 185785

FORM 1911 R-10

CUSTOMER Midwestern Exploration	WELL Coburn 3-21	DATE 03-07-97	PAGE OF
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOG	ACCT	DF							
504-050	504-282	516.00065			Premium Plus Cement Midcon	120	sk			17.06	2047.20
507-285		70.15250									
508-127		516.00335									
504-050		516.00265			Premium Plus Cement	100	sk			14.01	1401.00
507-210		890.50071			Flocele 1/4" W/ 220	55	lb			1.65	90.75
509-406		890.50812			Calcium Chloride 3/4" W/ 120, 2/4" W/ 100	5	sk			40.75	203.75
ORIGINAL											
RECEIVED KANSAS CORP COMM 1997 MAR 22 A.P. 29											
500-207					SERVICE CHARGE	CUBIC FEET		240		2.35	324.00
500-306					MILEAGE CHARGE	TOTAL WEIGHT	21586	LOADED MILES	34	TON MILES	366.962
										1.05	385.31

MAR. 21. 1997 2:15PM

No. B 389080

CONTINUATION TOTAL	4452.01
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HALLIBURTON

DATE 3-7-97

JOB LOG HAL-2018-C

CUSTOMER MIDWESTERN EXPL. WELL NO. 3-21 LEASE COBURN JOB TYPE 8 3/4 SURFACE TICKET NO. 185785

CHART NO. TIME RATE (BPM) VOLUME (BBL) (GAL) PUMPS T C PRESSURE (PSI) TUBING CASING DESCRIPTION OF OPERATION AND MATERIALS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS	
	0030					JOB READY NOW	
	0030					CALLED OUT FOR JOB	
	0300					PUMP TRUCK + BULK CMT ON LOCATION RIG STILL DRILLING - SET UP PUMP TRUCK RIG THROUGH DRILLING ON BOTTOM CIRCULATING ORIGINAL	
	0600					TRIP OUT DRILL PIPE	
	0830					START RUNNING 8 3/4 CSG + RT EQUIP. CASING ON BOTTOM 567	
	0835					Hook up 8 3/4 pipe circulating iron START CIRCULATING WITH RIG PUMP THROUGH CIRCULATING - Hook up to pump truck	
						JOB PROCEEDS	
			3.0	✓	9/200	pump 5 BBLs FRESH WATER AHEAD	
	0856	6.0	68	✓	100/150	MIX 120 SKS IRON CMT AT 11.1' DEEP	
	0902	6.0	23.5	✓	120/130	MIX 100 SKS TAIL CMT AT 14.8' DEEP	
	0905				0	THROUGH MIXING CMT - SHUT DOWN	
	0906					RELEASE PLUG - START DISPLACING	
						100' 500	MIX GOOD CMT RETURNS TO SURFACE
				✓	100' 500	MIX LIFT PRESSURE - MISC. MIXING PLUG	
	0920		35.0	✓	500	PLUG DOWN - RELEASE PLUG FLOAT WELD	

CIRCULATED (45 BBLs - 80 SKS TOP) ✓

THANK YOU for calling Halliburton  
Woody & Robert

