

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

Operator: License # 5393
Name: A. L. Abercrombie, Inc.
Address 150 N. Main, Suite 801
Wichita, KS 67202
City/State/Zip
Purchaser: Kansas Gas Supply; Mountain Iron & Supply
Operator Contact Person: Steve Frankamp
Phone (316) 262-1841
Contractor: Name: Abercrombie RTD, Inc.
License: 30684
Wellsite Geologist: Mike Dixon
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas EMHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:
Operator: N/A
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj'well
 Plug Back _____ PSTD
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) Docket No. _____
12-28-92 1-7-93 2-9-93
Spud Date Date Reached TD Completion Date

API NO. 15- 097-21,349 - 0000
County Kiowa
-NW-SE- Sec. 13 Twp. 28S Rge. 18 E W
1875' Feet from N (circle one) Line of Section
1975' Feet from W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Minks Gas Unit Well # 2
Field Name Allstott
Producing Formation Mississippian Chert
Elevation: Ground 2202' KB 2207'
Total Depth 4926' PSTD 4895'
Amount of Surface Pipe Set and Cemented at 415' 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/ _____ sx cmt.
Drilling Fluid Management Plan ALT / 3-15-93
(Data must be collected from the Reserve Pit)
Chloride content 28,000 ppm Fluid volume 1900 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ 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 Jack H. Wharton
Title Vice President Date 2-16-93
Subscribed and sworn to before me this 16th day of February, 1993.
Notary Public Angela Woodard
Date Commission Expires _____

STATE CORPORATION COMMISSION
RECEIVED
K.C.C. OFFICE USE ONLY
Letter of Confidentiality Attached
Wireline Log Received
Geologist Report Received
Distribution RECEIVED
KCC STATE CORPORATION COMMISSION
KGS Plug Other
MAR 30 1993

ANGELA WOODARD
Notary Public - State of Kansas
My Appt. Expires 3-20-93

Operator Name A. E. Abercrombie, Inc. Lease Name Minks Gas Unit Well # 2

Sec. 13 Twp. 28S Rge. 18 East West
 County Kiowa

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 checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	4046'	-1839'
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	4220'	-2013'
List All E.Logs Run:		B/KC	4612'	-2405'
GR5, BCN, DENS, DINL		Cherokee Shale	4742'	-2535'
		Miss. Chert	4804'	-2597'
		Kinderhook Shale	4853'	-2646'

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 Casing	12 1/4"	8 5/8"	28#	415'	60-40 poemix	300	2% gel 4% cc
Production Casing	7 7/8"	4 1/2"	10#	4924'	50-50 poemix Common	85 sx 200 sx	2% gel 10% salt, 2% gel

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	4806'-4820'	1500 gallons 7 1/2% HCS	4806-4820'
		36,000 gallons gelled water w/ 44,000 of sand	4806'-4820'

TUBING RECORD	Size <u>2 3/8"</u>	Set At <u>4806'</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. waiting on pipeline connection Producing Method Flowing Pumping Gas Lift Other (Explain)

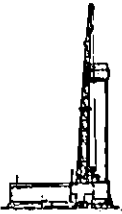
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		<u>3,884 MCFPD</u>		(wellhead overflow - see attached 4-point test)	

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

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

Production Interval 4806'-4820'

ORIGINAL



ABERCROMBIE RTD, INC.
DRILLING CONTRACTOR

150 N. MAIN, SUITE 801 / WICHITA, KANSAS 67202 / 316-262-1841

MINKS #2
C NW SE
Sec. 13-28S-18W
Kiowa Co., KS

(From ACO-1)

DST #1 4775'-4807' (Miss.)
30-46-60-45
Strong blow GTS 33" into 2nd open
Gauged 3,710 CFGPD in 40"
6,550 CFGPD in 50"
5,320 CFGPD in 55"
5,320 CFGPD in 60"

Rec. 10' GEM
IFPs 81-81 ISIP 1276
FFPs 81-71 FSIP 1276

DST #2 4807'-4827' (Mississippi)
30-45-60-45
Gas to surface in 2 minutes
gauged thru 1½" choke in 5 minutes 1,274 MCFPD
10 minutes 1,559 MCF
20 minutes 1,626 MCF
30 minutes 1,626 MCF
2nd open period 10 minutes 1,559 MCF
20 & 30 minutes 1,694 MCF
40 minutes 1,626 MCF
50 & 60 minutes 1,559 MCF

Recovered 2 feet VSOCM
IFPs 619-609 ISIP 1235
FFPs 609-539 FSIP 1156

DST #3 4831'-4852' (Mississippi)
30-45-60-45
Strong blow, gas to surface in 15 minutes into 2nd open period
gauged thru 1½" choke in 20 minutes 7,510 CFGPD
30 minutes 7,510 CFGPD
40 minutes 6,550 CFGPD
50 & 60 minutes 5,320 CFGPD

Recovered 90' SWC Mud (5% water) chlorides 35,000 ppm
IFPs 81-81 ISIP 1276
FFPs 81-81 FSIP 1276

RECEIVED
FEB 4 1993
CONSERVATION DIVISION
Wichita, Kansas

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.

1092

Home Office P. O. Box 31

Russell, Kansas 67665

12-29-92 12-29-92

Date	12-28-92	Sec.	13	Fwp.	28	Range	-18	Called Out	7:50 AM	On Location	11:00 AM	Job Start	3:00 AM	Finish	4:00 AM
Lease	Minks	Well No.	#2	Location	Bronham 1/2 S 1/4 N1/2				County	Kiewa	State	Ks			
Contractor	A.H. Abercrombie				Owner	SAME									
Type Job	Surface Pipe Job														
Hole Size	12 1/4		T.D.	116 ft											
Csg. ^{20"} New Pipe	8 1/2		Depth	415 ft											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.	15 ft		Shoe Joint												
Press Max.			Minimum												
Meas Line	#00 ft		Displace	28.0 bbl.											
Perf.															

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 A.H. Abercrombie Inc
 Street 801 Union Center
 City Wichita State Ks 67202

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

Purchase Order No. X W.C. Barry Thank You

CEMENT

Amount Ordered	300/40 46cc 27sil		
Consisting of			
Common	180	5.50	990.00
Poz. Mix	180	2.50	300.00
Gel.	6	6.75	N/C
Chloride	12	21.00	252.00
Quickset			

EQUIPMENT		
Mud Boat		
Pumptrk	No. 120	Cementer Mike
		Helper Dave
Pumptrk	No.	Cementer
		Helper
		Driver Mark
Bulktrk	179	
Bulktrk		Driver

Handling	300	1.00	300.00
Mileage	28		336.00
		Sub-Total	
		Total	2178.00

DEPTH of Job	115 ft		
Reference:	Pump Truck Charge	380.00	
28	Milosie Charge	56.00	
1	8 1/2 wooden Plug	42.00	
	115' at .39	44.85	
		Total	522.85

Floating Equipment

1-4 1/2 Basket - 180.00

RECEIVED STATE CORPORATION COMMISSION

FEB 17 1993

Total # 2880.85

Disc - 576.17

Remarks: Cement did circulate

Allied Cementing Co. Inc. Thank you
 Make my work

NO WARRANTY ON FLOAT EQUIPMENT

Wichita, Kansas # 2304.68

ORIGINAL

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.
P. O. BOX 31
RUSSELL, KANSAS 67665

JAN 8 1993

TO: A. L. Abercrombie Inc.
801 Union Center
Wichita, Kansas 67202

INVOICE NO. 63213
PURCHASE ORDER NO. _____
LEASE NAME Micks #2
Micks #2
DATE Dec, 29, 1992

SERVICE AND MATERIALS AS FOLLOWS:

Common 120 sks @\$5.50	\$ 990.00	
Pozmix 120 sks @\$2.50	300.00	
Chloride 12 sks. @\$21.00	<u>252.00</u>	\$ 1,542.00
Handling 300 sks @\$1.00	300.00	
Mileage (28) @\$0.04¢ per sk per mi	336.00	
Surface	380.00	
115' @\$0.39¢ per ft. over 300'	44.85	
Mi @\$2.00 pmp. tr.	56.00	
1 plug	<u>42.00</u>	1,158.85
1 8 5/8" basket 180.00		<u>180.00</u>

Total \$ ~~2,880.85~~
2,304.68

If account CURRENT 20% discount will
be allowed ONLY if paid within 30 days
from date of invoice.

Cement circ.

THANK YOU

OK Jones

1352008

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2 % Charged Thereafter.

RECEIVED
STATE CORPORATION COMMISSION
FEB 17 1993
CONSERVATION DIVISION
Wichita, Kansas



P.O. BOX 31
RUSSELL, KS 67665

CEMENTING LOG

STAGE NO. _____

Date 1-8-93 District med lodge Ticket No. 5874
 Company J.L. Abercrombie Rig Abercrombie 25
 Lease Minks Well No. 42
 County Riowa State KANSAS
 Location Beehan, ks. 1w-1/2s-18w Field _____
13-28s-18w

CEMENT DATA:
 Spacer Type: 500 Gallon mod Sweep
 Amt. _____ Sk's Yield _____ ft³/sk Density _____ PPG _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 4 1/2 Type J-555 Weight 16.5 Collar _____

LEAD: Pump Time 5 min hrs. Type 50:50:2%Gel
5#Kol-Seal, 7/16 1 1/2 CD-31 Excess _____
 Amt. 110 Sk's Yield 1.30 ft³/sk Density 14.7 PPG _____
 TAIL: Pump Time 10 min hrs. Type CLASSA
10% Salt, 2% Gel Excess _____
 Amt. 200 Sk's Yield 1.37 ft³/sk Density 15.0 PPG _____
 WATER: Lead 5.0 gals/sk Tail 6.3 gals/sk Total 4.5 Bbls.

Burst Collaspe
4.79 PST 4.01 PST
 Casing Depths: Top _____ Bottom _____

Pump Trucks Used #233, Carl Balding
 Bulk Equip. #256, Max Wolf

Drill Pipe: Size 4 1/2 Weight 16.6 Collars X-Hole
 Open Hole: Size 7 7/8 T.D. 4926 ft. P.B. to _____ ft.

Float Equip: Manufacturer Baker
 Shoe: Type Reg. Guide Shoe Depth 4924'
 Float: Type AFU Insert Depth 4895.02'
 Centralizers: Quantity 7 Plugs Top 1 Btm. _____
 Stage Collars _____
 Special Equip. Scratchers (10)
 Disp. Fluid Type Fresh H₂O Amt. 79 1/2 Bbls. Weight 8.34 PPG
 Mud Type Chemical Weight 9.2 PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.70
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: 4 1/2 x 7 7/8 Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.6474
4 1/2 x 8 3/8 Bbls/Lin. ft. .0440 Lin. ft./Bbl. 22.72
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE Bill Souls CEMENTER Fanny Wierling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE (CASING)	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:05	300		375	1 Hr. 15	5	Rig up and hold safety meeting
6:38	350		12	3	4	Pipe in Bottom, Circ w/rig Pump make Pipe. Dig up to Cement Pump.
6:42	300		26	5	5	Start mod Sweep.
6:47	300		49	9	5	mod Sweep In. Start Cement
6:58	50		8	2	5	Lead In. Start Tail, Steady PST Tail In. Stop Pumps.
7:00	250		2	1	6	Wash out Pump and lines Release Plug
7:02	275		8	2	6	Start Fresh H ₂ O LEAD at Shoe.
7:16	450		42	8	6	LEAD Cement at shoe.
7:18	600		60	5	6	PST INCREASE
7:13	800		70	2	5	GRADUAL PST IN.
7:15	1500		79 1/2	2	5	Decrease rate Bump Plug Release PST Float Held.
						Rig up to wash up Pump. 15 SK'S. In. Wash up 10 SK'S. mBBS in Hole
	1352	08				

STATE CORPORATION COMMISSION
 FEB 17 1993
 CONSERVATION DIVISION
 Wichita, Kansas

AL DISP. PRESS: 800 PSI BUMP PLUG TO 1500 PSI BLEEDBACK 1/4 BBLs. (THANK YOU)

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

JAN 13 1993

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 0005874

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
1-8-93	13	28S	18W	6:30 A.M.	10:00 A.M.	5:00 P.M.	7:30 P.M.
Lease Minks.		Well No. # 2	Location Brenham, Ks. 1W-1/2S-1/4W		County	State	
					KIOWA	KANSAS	

Contractor	Abercrombie Ode P. T. O. Inc.
Type Job	Production Csg.
Hole Size	7 7/8 T.D. 4926'
Csg.	4 1/2 - 10.5" Depth 4924'
Tbg. Size	Depth
Drill Pipe	4 1/2 X-Hole Depth 4926
Tool	Depth
Cement Left in Csg.	Shoe Joint 28.98
Press Max.	1500# Minimum 250#
Meas Line	Displace
Perf.	

Owner	A.L. Abercrombie Inc.
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	A.L. Abercrombie Inc.
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
x W.C. Craig	
110 SKS. 50.50. 5" CEMENT 2% Gel. K0-Seal, 3/4 of 1% CD-31	
Amount Ordered 200 SKS. CLASS A, 10% SALT, 2% Gel	

EQUIPMENT

No.	Cementor	
Pumptrk 233	Helper	ARRY DREILING
No.	Cementor	
Pumptrk	Helper	Carl Bolding
	Driver	MAX WOLF
Bulktrk 256	Driver	

Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quickset	
	Sales Tax
Handling	
Mileage	
	Sub Total
	Total

DEPTH of Job	4924'
Reference:	
1	4 1/2 Top Res. n Plug
	Sub Total
	Tax
	Total

Floating Equipment	Furnished By BAKER
1-Req. Guide Shoe	
1-AFU Insert	
2-Turbo Centerline	
5-Centerline	
10-Per. S.C.P.	

Remarks: "See Log"
101-3250
1352-08
5084000
SNO

RECEIVED
NATIONAL DIVISION
STATION
JAN 17 1993
P.L.B. H.C.S.
CONSERVATION DIVISION
Wichita, Kansas