

ORIGINAL

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

API NO. 15- 109-20,542-00-00

County Logan

N/2 NW SW Sec. 15 Twp. 12 Rge. 33 X ^E/_W

2310' Feet from (S)W (circle one) Line of Section

4620' 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 Michaelis #1 Well # _____

Field Name Wildcat

Producing Formation Lansing - KC

Elevation: Ground 3100 KB 3105

Total Depth 4770 PBDT 4500

Amount of Surface Pipe Set and Cemented at 319 Feet

Multiple Stage Cementing Collar Used? X Yes _____ No

If yer, show depth set 1694' Feet

If Alternate II completion, cement circulated from 1694'

feet depth to surface w/ 350 sx cnt.

Drilling Fluid Management Plan ALT 2 3-4-93
(Data must be collected from the Reserve Pit)

Chloride content 47,000 ppm Fluid volume 750 bbls

Deaerating 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. _____

Operator: License # 5393 5422

Name: A. L. Abercrombie, Inc.

Address 150 N. Main, Suite 801

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil Co.

Operator Contact Person: Jack K. Wharton

Phone (316) 262-1841

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: Mark R. Galyon

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: 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. _____

10-26-92 11-6-92 12-30-92
Spud Date Date Reached TD Completion Date

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 K. Wharton

Title Vice Pres. Date 2-16-93

Subscribed and sworn to before me this 16th day of February, 19 93.

Notary Public Angela Woodard

Date Commission Expires _____

K.C.C. OFFICE USE RECEIVED
F _____ Letter of Confidentiality Attached
C _____ Wireline Log Report Received
C Geologist Report Received
Distribution: EEB 18 1993
02-18-1993
KCC _____ SWD/Rep _____
KGS _____ PLS
CONSERVATION DIVISION
Wichita (Specify)

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

PI

SIDE TWO

Operator Name A. L. Abercrombie, Inc. Lease Name Michaelis Well # 1

Sec. 15 Twp. 12S Rge. 33 East West
 County Logan

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 Log Formation (Top), Depth and Datum Sample
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Name	Top	Datum
Anhydrite	2597'	+508
B/Anhydrite	2617'	+488
Heebner	4017'	-912'
Lansing	4056'	-951'
Muncie Creek	4202'	-1097'
Stark Shale	4288'	-1183'
Pawnee	4485'	-1380'
Myrick Station	4520'	-1415'
Fort Scott	4542'	-1437'
Cherokee	4571'	-1466'
Johnson	4614'	-1509'
	4696'	-1591'

List All E.Logs Run: Dual Induction, Compen-
 sated Density Neutron, RAG, Corr. Sonic,
 cement bond.

CASING RECORD							
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"	20	319'	60-40 posmix	200	2% gel 3% cc
Production	7 7/8"	4 1/2"	10 1/2	4768'	50-50 posmix Common	75 200	7 1/2 in/sx 3/4 of B-29
D.V. Tool				1694'	B.J. Lite	350	

Report all strings set-conductor, surface, intermediate, production, etc.

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
4	4617'-4619'		None	
	CIBP @ 4500			
4	4272'-4277'		None	

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 3/8	4486'	None		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.				Producing Method				
1-18-93				<input type="checkbox"/> Flowing <input checked="" 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
		70		0		Trace		39

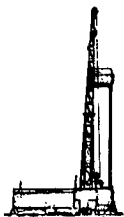
Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)

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

Production Interval: 4272'-4277'

15-109-20542-00-00

ORIGINAL



ABERCROMBIE RTD, INC.
DRILLING CONTRACTOR

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

MICHAELIS #1
N/2 NW/4 SW/4
Sec. 15-12S-33W
Logan Co., KS

(from ACO-1)

DST #1 4127'-4143' (E-F Zone)

30-45-30-45

Strong blow off bottom of bucket in 3 minutes

Rec. 30' gip, 10' clean oil (33°)

422' slightly oil cut water (4% oil)

465' oil spotted wtaer

93' water (chlorides 73,000 PPM)

IFPs 44-301 ISIP 1275

FFPs 328-464 FSIP 1272

DST #2 4201'-4230' (H Zone)

30-45-60-45

Rec. 5' clean oil, 211' oil spotted water

559' salt water (chlorides 64,000)

IFPs 75-290 ISIP 395

FFPs 312-383 FSIP 395

DST #3 4235'-4263' (I Zone)

30-45-60-45

Rec. 370' muddy water (scum oil)

Chlorides 22,000

IFPs 34-87 ISIP 395

FFPs 107-182 FSIP 390

DST #4 4264'-4280'

30-45-60-45

Gas to surface in 90 minutes

Rec. 2710' clean gassy oil

30' HOCM

IFPs 19-617 ISIP 1130

FFPs 672-966 FSIP 1111

DST #5 4285'-4309' (K zone)

30-45-60-45

Rec. 120' oil spotted muddy water

(48,000 chlorides)

IFPs 27-46 ISIP 557

FFPs 57-85 FSIP 533

DST #6 4514'-4560' (Myrick Station & Fort Scott)

30-45-60-45

Rec. 95' slightly oil cut watery mud (1% oil)

IFPs 46-59 ISIP 650

FFPs 64-84 FSIP 597

DST #7 4590'-4639' (Johnson Zone)

30-45-30-45

gas to surface in 60 minutes

Rec. 1815' clean gassy oil (32.1°)

370' muddy salt water (chlorides

44,000)

IFPs 299-617

ISIP 1115

FFPs 716-892

FSIP 1130

RECEIVED
STATE CORPORATION COMMISSION

FEB 18 1993

CONSERVATION DIVISION
Wichita Kansas



15-109-20542-00-00

JAM. Wharton (4041276)
CUSTOMER

BJ SERVICES COMPANY

ORIGINAL

INVOICE DATE
11/06/92

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ SERVICES CO. USA P.O. BOX 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 2001839
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AUTHORIZED BY 001839

PURCH. ORDER REF. NO.

A L ABERCROMBIE INC

801 UNION CENTER BLDG
WICHITA KS 67202

WELL NUMBER : 1 CUSTOMER NUMBER : 501 - 0

LEASE NAME AND NUMBER MICHAELIS	STATE 14	COUNTY/PARISH 1451	CITY Haves	DISTRICT NAME	DISTR. NO. 583
JOB LOCATION/FIELD RA	MTA DISTRICT		DATE OF JOB 11/06/92	TYPE OF SERVICE LAND-LONG STRING/PRODUCT	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100326	1.00	CEMENT CASING 4,501 TO 5,000 FEET	1326.00		1,326.00
10101501	1.00	ADD STAGES, CONTINUOUS OR INTERMIT	1000.00		1,000.00
10109005	15.00	MILEAGE CHRG. FROM NEAREST BASE OF	2.47		37.05
10409600	1.00	INSERT	168.00	GAL	168.00
10409600	6.00	CENTRALIZERS TURBO	48.50	GAL	291.00
10409600	1.00	GUIDE SHOE	109.00	GAL	109.00
10409600	19.00	RECIPROCATING SCRATCHERS	16.65	GAL	316.35
10409600	1.00	D.V. TOOL	2676.00	GAL	2,676.00
10410504	469.00	CLASS "A" CEMENT	7.11	CF	3,334.59
10415018	162.00	FLY ASH	3.81	CFT	617.22
10415082	550.00	KOL SEAL	0.35	LB	192.50
10420145	2600.00	BJ GEL, BENTOLNITE, PER POUND	0.15	LB	390.00

ACCOUNT:

RECEIVED
STATE CORPORATION COMMISSION
FEB 18 1993
CONSERVATION DIVISION
Wichita, Kansas

TAX EXEMPTION STATUS:



BJ SERVICES COMPANY

ORIGINAL

15-109-20542-00-00

CUSTOMER

INVOICE DATE
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A L ABERCROMBIE INC

801 UNION CENTER BLDG
WICHITA KS 67202

WELL NUMBER : 1 CUSTOMER NUMBER : 501 - 0

LEASE NAME AND NUMBER MICHAELIS	STATE 14	COUNTY/PARISH 1451	CITY	DISTRICT NAME Hayes	DISTR. NO. 583
JOB LOCATION/FIELD NA	MTA DISTRICT	DATE OF JOB 11/06/92	TYPE OF SERVICE LAND-LONG STRING/PRODUCT		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10424005	47.00	CO-31	4.07	LB	191.29
10425010	500.00	MUD-SWEEP, WITH BJ-TITAN PUMPING E	1.73	GAL	865.00
10428085	340.00	BA-29	9.89	LB	3,362.60
10880001	851.00	MIXING SERVICE CHARGE DRY MATERIAL	1.16		987.16
10940101	549.00	DRAYAGE, PER TON MILE	0.79		433.71
SUBTOTAL					16,297.47
DISCOUNT					3,259.49

ACCOUNT	4.9000% KS-NEW WELL	10,010.84	RECEIVED STATE CORPORATION COMMISSION FEB 18 1993 CONSERVATION DIVISION Wichita, Kansas
TAX EXEMPTION STATUS:			

PAY THIS AMOUNT → 13,528.53

15-109-20542-00-00

ORIGINAL

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.

5321

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-26-92	Sec.	15	Twp.	12 S	Range	33 W	Called Out	3:15 PM	On Location	5:30 PM	Job Start	8:30 PM	Finish	9:00 PM
Lease	MICHAELIS	Well No.	#1	Location	OAKLEY & 83 Hwy Jct.			County	LOGAN	State	KANSAS				
Contractor	ABERCROMBIE DRIG. RIG #5 RTD							Owner	4W 7S 3W 1/2S 1/4E						
Type Job	SURFACE														
Hole Size	12 1/4			T.D.	320'										
Csg.	8 5/8 20 #			Depth	319'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace	19 1/2 RBL										
Perf.															

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To **ABERCROMBIE DRILLING INC.**
Street **801 Union Center**
City **Wichita** State **Kan 67202**

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

Purchase Order No.

X **W. C. Chang**
CEMENT

Amount Ordered **200 SK. 60/40 2% Gel 3% CC**

Consisting of			
Common	120	SKs @ 5.50	660.00
Poz. Mix	80	SKs @ 2.50	200.00
Gel.	3	SKs @ 6.25	N/C
Chloride	5	SKs @ 21.00	105.00
Quickset			

Sales Tax

Handling **1.00 per SK** **200.00**
Mileage **4¢ per SK/mile** **120.00**
15 miles

Sub Total

Total **1,285.00**

Floating Equipment

EQUIPMENT

Pumptrk #177	No.	Cementer	<i>Shan</i>
		Helper	<i>Will</i>
Pumptrk #218	No.	Cementer	
		Helper	
Bulktrk #218		Driver	<i>Jason</i>
Bulktrk		Driver	

DEPTH of Job

Reference:	Pump Truck Chrg	380.00
	2.00 per mile	30.00
	1-8 5/8 WOODEN PLUGS	42.00
	Sub Total	
	Tax	
	Total	452.00

Remarks:

Cement Circulated

Chang

RECEIVED
STATE CORPORATION COMMISSION

FEB 18 1993

CONSERVATION DIVISION
Wichita, Kansas



P.O. Box 4442
Houston, Texas 77210

15-109-20542-00-00 CEMENTING LOG

Original
STAGE NO.

Date 11-6-92 District HAYS Ticket No. 001839
Company Aben Kombi Oils & Gas Rig Aben #5
Lease Michaelis Well No. 1
County Logan State KN
Location _____ Field _____

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

Casing Depths: Top _____ Bottom _____

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

CAPACITY FACTORS:
Casing: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
Open Holes: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
Drill Pipe: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: 500 gal mud sweeps
Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____
LEAD: Pump Time 7 1/2 # Kulsol hrs. Type _____
39/100 2% Cel 3 CD31 Excess _____
Amt. 75 Sks Yield 1.20 ft³/sk Density 13.0 PPG
TAIL: Pump Time _____ hrs. Type _____
Commonly B-A 29 Excess _____
Amt. 200 Sks Yield 1.10 ft³/sk Density 15.5 PPG
~~WATER~~ Head _____ gals/sk Tail _____ gals/sk Total _____ Bbbls.
Tap Stage. Lite 8% Cel
Pump Trucks Used 2034 - Down
Bulk Equip. 2030 - Steve W. Stone IA

Float Equip: Manufacturer BAKER-GONCO
Shoe: Type Cement Rose Depth _____
Float: Type A-FU Depth _____
Centralizers: Quantity _____ Plugs Top _____ Btm. _____
Stage Collars _____
Special Equip. BASKET CENT.
Disp. Fluid Type _____ Amt. _____ Bbbls. Weight _____ PPG
Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Bruce Soules CEMENTER BUD R. JELAN

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
						pipe det C 4768 Shoe det 29 Insert C 4739
						Mud & pump 500 gal mud sweeps Follow w/ 75 sks 50/50 per 2% Cel 7 1/2 # Kulsol/sk 3 of 1% CD31 Follow w/ 200 sks Cem. w/ 1.2% BA 29 pump plug w/ 49 bbls water 272 bbls mud Land plug at 1000 PSI HOAT Old hold
						D.U. Tool C 1694 1000 PSI TO OPEN TOOL
						Cement w/ 500 lbs R/Lite 8% Cel pump plug w/ bbls water Close Tool at 1300 PSI Cement did Circulate
						Job Complete @ 2:05 PM Thank you, call AGA

FEB 18 1993

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STATE CORPORATION COMMISSION
CONSERVATION DIVISION
Wichita, Kansas