

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

API NO. 15-109-20,5710001

County Logan

NE - SE - SE Sec. 16 Twp. 12S Rge. 33W XX W

990' Feet from (S) N (circle one) Line of Section

330' 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 THORN Well # 1

Field Name Owen North Ext.

Producing Formation Lansing-Kansas City & Cherokee

Elevation: Ground 3084' KB 3089'

Total Depth 4735' PBD

Amount of Surface Pipe Set and Cemented at 345.90' Feet

Multiple Stage-Cementing Collar Used? XX Yes No

If yes, show depth set 1737' Feet

If Alternate II completion, cement circulated from 1737'

feet depth to Surface w/ 450 sx cmt.

Drilling Fluid Management Plan REWORK JW 1-26-96  
(Data must be collected from the Reserve Pit)

Chloride content 21,000 ppm Fluid volume 1100 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.

Operator: License # 5393

Name: A.L. Abercrombie Inc.

Address 150 N. Main Suite 801

City/State/Zip Wichita, Ks. 67202

Purchaser: KOCH OIL CO.

Operator Contact Person: Jerry Langrehr

Phone (316) 262-1841

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist:

Designate Type of Completion  
New Well Re-Entry XX Workover

XX Oil SWD SLOW Temp. Abd.  
Gas ENHR SIGW  
Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: A.L. Abercrombie, Inc.

Well Name: THORN #1

Comp. Date 1-6-95 Old Total Depth 4735'

Deepening X Re-perf. Conv. to Inj/SWD  
Plug Back PBD  
XX Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.

1-11-96 1-24-96 1-24-96

Date of START Date Reached TD Completion Date OF  
Cable Tools WORKOVER

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 Jerry Langrehr Jerry Langrehr

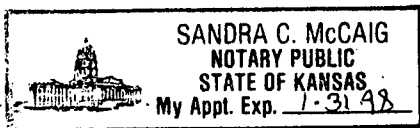
Title Vice President Date 1-24-96

Subscribed and sworn to before me this 24 day of January 19 96.

Notary Public Sandra C. McCaig

Date Commission Expires 1-31-98

STATE CORPORATION COMMISSION RECEIVED  
K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C Wireline Log Received  
C Geologist Report Received  
Distribution 01-25-1996  
KCC SWD/Rep NGPA  
KGS Plug Other (Specify)



SIDE TWO

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

Sec. 16 Twp. 12 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<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 type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run:				

All logs were forwarded with original ACO-1  
 Filed 1-18-95.

CASING RECORD <input checked="" type="checkbox"/> New <input 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 1/4"	8 5/8"	23#	345.9'	60/40 pos mix	225 sks	2% gel, 3% CC
Production	7 7/8"	4 1/2"	10.5#	4724.98'	Common 60/40 pos mix	200 sks	CFR 2% gel, 7# gilsonite
		D.V. Tool		1737'	Allied Lite	450 sks	

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				

1-6-95

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	4594'-4597'	3'	500 gals, 15% INS	4660'
4	4250' to 4255'		500 gals, 15% INS	4500'
4	4196' to 4200'	4' 4182'-4184' 2'	1500 gals, 15% INS	4230'
8	4105' to 4106'	1'	500 gals, 15% INS	4150'

<b>TUBING RECORD</b>	Size 2 3/8	Set At 4633'	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. January 6, 1995/ RWORK Jan. 26, 1996.	Producing Method <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 80	Bbls.	Gas Mcf	Water 10
			Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** **Production Interval**

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 4594' to 4597'  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_ 4105' to 4255'

ORIGINAL

15-109-20571-0001

THORN #1  
NE-SE-SE  
Sec. 16-12S-33W  
LOGAN CO., KS

DST #1 (Toronto) 3992'-4028'

30-45-30-30  
Recovered 30' mud  
IFP 29-29 ISIP 1086  
FFP 49-49 FSIP 986

DST #2 "A" Zone 4028'-4050'

30-45-60-45  
Recovered 190' muddy water  
Chlorides 75,000  
IFP 29-49 ISIP 1106  
FFP 78-108 FSIP 1006

DST #3 - "B" Zone 4054'-4080'

30-45-60-45  
Recovered 5' clean oil, 62' mud  
Chlorides 84,000  
IFS 68-88 ISIP 1116  
FFP 118-147 FSIP 1076

DST #4 - E/F Zone 4100'-4123'

30-45-60-45  
Recovered 62' MCO, 80% oil  
62' OCM, 20% oil  
62' SOCMW, 5% oil, 60% water, 35% mud  
186' SW 54,000 chlorides  
IFS 29-78 ISIP 1106  
FFP 98-167 FSIP 1016

DST #5 - "H" Zone 4176'-4210'

30-45-60-45  
Recovered 62' CO  
62' OCGM, 10% gas, 10% oil  
62' OCGM, 15% gas, 5% oil  
62' SOWCM, 3% oil, 10% water  
IFS 39-68 ISIP 561  
FFP 88-108 FSIP 501

ELECTRIC LOG TOPS

HEBNER	3993' (-904)
TORONTO	4020' (-931')
LANSING	4035' (-946')
MUNCIE	4183' (-1094')
STARK	4262' (-1178')
MARMATON	4373' (-1284')
PAWNEE	4466' (-1377')
CHEROKEE SHALE	4553' (-1464')
JOHNSON	4597' (-1508')
<i>E Log TD</i>	<i>4734</i>

RECEIVED  
STATE CORPORATION COMMISSION

JAN 25 1996

Geological Survey  
Office of Mineral Resources

15-109-20571-00-01  
ORIGINAL

THORN #1  
NE-SE-SE  
Sec. 16-12S-33W  
LOGAN CO., KS

Page 2

DST #6 "J" Zone 4245'-4266'  
30-45-60-45  
Recovered 1240' GIP  
496' CGO, 20% gas, 80% oil, 38"  
124' OCGM, 40% gas, 5% oil, 5% water  
IFP 98-1779 ISIP 246  
FFP 196-226 FSIP 265

DST #7 "K" Zone 4265'-4289'  
30-45-60-45  
Recovered 30' OSM, 248' SW  
Chlorides 55,000  
IFP 29-68 ISIP 492  
FFP 98-127 FSIP 472

DST #8 - Ft. Scott 4493'-4545"  
30-45-60-45  
Weak blow thru out  
Recovered 140' drlg mud w/oil spots  
60' mud cut water, 70% water  
IFS 41-62 ISIP 769  
FFP 104-124 FSIP 669

DST #9 - Johnson Zone 4571'-4605"  
30-45-60-45  
Fair blow increasing to strong & then dying to 4" in bucket (surging)  
Gas to surface during 2nd open period  
Recovered 1465' clean gassy oil, gravity 29.3  
150' slightly gas & oil cut mud, 10% gas, 35% oil  
60' water cut mud, 30% water  
IFS 104-259 ISIP 1060  
FFP 353-579 FSIP 1060

DST #10 Lansing Zone 4208'-4240' (Straddle Packers)  
30-45-30-45  
Fair blow 1st open  
Weak blow 2nd open  
Recovered 180' mud  
IFS 72-83 ISIP 280  
FFP 93-93 FSIP 280

RECEIVED  
STATE CORPORATION COMMISSION

JAN 25 1996

STATE CORPORATION COMMISSION  
MICHIGAN RESOURCES