

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

ORIGINAL

Operator: License # 5422

Name: Abercrombie Drilling, Inc.

Address 150 N. Main, Suite 801

City/State/Zip Wichita, KS 67202

Purchaser: _____

Operator Contact Person: Mark R. Galyon

Phone (316) 262-1841

Contractor: Name: Abercrombie RTD, Inc.

License: 30684

Wellsite Geologist: Steve Davis

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ SWD ☐ SIGW ☐ Temp. Abd.
☐ Gas ☐ ENHR ☐ SIGW
☒ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD
☐ Plug Back ☐ PBTD
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Inj?) ☐ Docket No. _____

12-2-98 12-9-98 12-10-98
Spud Date Date Reached TO Completion Date

API NO. 15- 063-215260000

County Gove

C - SE - SW - NE Sec. 23 Twp. 15S Rge. 29 ☒ E/W

2310 Feet from S (circle one) Line of Section

1665 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 R. Miller Well # 1-23

Field Name WC

Producing Formation NONE

Elevation: Ground 2507' KB 2512'

Total Depth 4300' PBTD _____

Amount of Surface Pipe Set and Cemented at 302.72 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 PLA, 1-19-99 OC
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 1200 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, 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 [Signature]

Title President Date 12-29-98

Subscribed and sworn to before me this 29 day of December
19 98

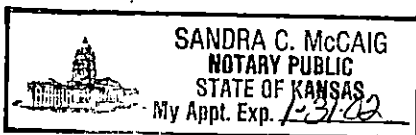
Notary Public [Signature]

Date Commission Expires 1-31-02

K.C.C. OFFICE USE ONLY
F ☐ Letter of Confidentiality Attached
C ☒ Wireline Log Received
C ☐ Geologist Report Received

Distribution
☐ KCC ☐ SWD/Rep ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

Form ACO-1 (7-91)



SIDE TWO

Operator Name Abercrombie Drilling, Inc.Lease Name R. MillerWell # 1-23Sec. 23 Twp. 15S Rge. 29☐ EastCounty Gove☒ West

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 ☐ NoCores Taken ☐ Yes ☒ NoElectric Log Run ☒ Yes ☐ No
(Submit Copy.)

List All E.Logs Run:

Log Tech

Dual Induction

Compensated Neutron Density

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name

Top

Datum

See Attached Sheet

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"	23#	302.72	60/40 poz	225	2% gel, 3% cc

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

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls. <u>N-A</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

ORIGINAL

ABERCROMBIE RTD, INC.

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

R. MILLER #1-23

C SE SW NE
 SECTION 23-T15S-R29W
 GOVE COUNTY, KS

OPERATOR: Abercrombie Drilling, Inc.
 CONTRACTOR: Abercrombie RTD, Inc.
 RIG #:8
 JOB #: 9808010

Abercrombie Drilling, Inc.
 150 N. Main, Suite 801
 Wichita, KS 67202
 (316-262-1841

ELEVATION: 2507' GL
 2512' KB

API #15-063-21,526

12-01-98 Begin Site Preparation.

Page 1

12-02-98 Move in and rig up and prepare to spud.

12-03-98 307' - WOC. Cut 307' - 24 hrs., drilling 5 1/4 hrs., jet pit 1/4 hr., circulate 3/4 hr., run casing 1 3/4 hrs., cementing 1/2 hr., rig up 11 3/4 hrs., WOC 1 1/2 hrs., drill rat hole 2 1/4 hrs. Bit #1, 12 1/4" Veral L117, SN: 138764, in at 0', out at 307'. Cut 307' - 5 1/4 hrs. Mud weight 9.0, Viscosity 42, PV/YP Native. Contacted Ed Schumacker with KCC at 3:45 p.m. 12-02-98. Spud at 9:00 p.m. 12-02-98. Mud mix: gel 60 sks., lime 8 sks., hulls 8 sks. Deviation 1/2 degree @ 307'. Bit weight - all, 700# pump, rot 140, SPM 56. Ran 7 jts. New 8 5/8" 23# casing, tally 294.72', set at 302.72'. Cemented w/225 sks. 60/40 poz., 2% gel, 3% cc. Cemented by Allied. Cement did circulate. Plug down at 5:30 a.m. 12-03-98. Drilled plug at 1:30 p.m. 12-03-98.

Log Tops

Anhy 1928' +584'

B/Anhy 1958' +554'

Heeb 3605 -1093'

Tor 3625' -1113'

Lans 3644' -1132'

Muncie Cr. 3804' -1292'

Stark Sh. 3895' -1383'

Hushpk Sh. 3921' -1409'

Middle Cr. 3923' -1411'

BKC 3970' -1458'

12-04-98 1650' - Drilling. Cut 1343' - 24 hrs., drilling 15 3/4 hrs., rig check 1/2 hr., jet pit 1/2 hr., repairs 3/4 hr., WOC 6 1/2 hrs. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 1343' - 15 3/4 hrs. Mud weight 9.2, Viscosity 28, Native gels, Native sand. Bit weight 25,000, 1000# pump, rot 80-90, SPM 58.

Pawnee 4082' -1570'

Ft. Scott 4151' -1639'

Cherokee Sh. 4178' -1666'

Mississippi 4251' -1739'

Logger's TD 4300'

12-05-98 2750' drilling. Cut 1100' - 24 hrs, drilling 22 1/4 hrs., rig check 3/4 hrs., jet pit 1 hr. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 2443' - 38 hrs. Mud weight 9.5, viscosity 30, PV/YP native. Daily mud \$538.00, accumulative mud \$538.00. Mud mix: gel 65 sks, caustic 4 sks, soda ash 5 sks, lignite 2 sks, drispac 1 sk, hulls 16 sks. Bit weight 38,000#, 1000# pump, rot 80, spm 58.

DST #1 3839' -3872'

(Lansing 'I' Zone)

12-06-98 3420' drilling. Cut 670' - 24 hrs., drilling 21 1/4 hrs., rig check 3/4 hr., jet pit 1 1/2 hrs., repairs 1/2 hr. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 3113' - 59 1/4 hrs. Mud weight 8.7, viscosity 41, PV/YP 7/12, gels 5/13, water loss 10.4, pH 10.0, chlorides 1200, solids 2.7%, t/sand, 1/2# LCM. Daily mud \$1,850.49, accumulative mud \$2,388.24. Mud mix: gel 50 sks, caustic 3 sks, soda ash 3 sks, lignite 2 sks, hulls 4 sks. Bit weight 38,000#, 1000# pump, rot 80, spm 58.

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12-07-98 3872' DST #1. Cut 452' - 24 hrs., drilling 16 3/4 hrs., rig check 3/4 hr., jet pit 1/4 hr., circulate 2 3/4 hrs., testing 2 3/4 hrs., repair 3/4 hr. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 3565' - 76 hrs. Mud weight 9.2, viscosity 44, PV/YP 7/12, gels 5/13, water loss 10.4, pH 10.0, chlorides 1200, solids 2.7%, t/sand, 1/2# LCM. Daily mud \$464.70, accumulative mud \$2,852.94. Bit weight 35,000#, 1000# pump, rot 80, spm 58.

ABERCROMBIE RTD, INC.
150 N. MAIN, SUITE 801
WICHITA, KANSAS 67202
(316)262-1841

R. MILLER #1-23

C SE SW NE
 SECTION 23-T15S-R29W
 GOVE COUNTY, KS

OPERATOR: Abercrombie Drilling, Inc.
 CONTRACTOR: Abercrombie RTD, Inc.
 RIG #:8
 JOB #: 9808010

Abercrombie Drilling, Inc.
 150 N. Main, Suite 801
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ELEVATION: 2507' GL
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API #15-063-21,526

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DST #1 3839'-3872' (Lansing 'I' zone)

30-45-60-45

Weak 1/2" blow both opens

REC: 30' mud, 180'-WM

FP: 15-54; 60-120#

SIP: 989-950

12-08-98 3914' on bottom of DST #2. Cut 42'-24 hrs., drilling 1 3/4 hrs., rig check 1/4 hr., circulate 4 1/2 hrs., testing 16 1/2 hrs., repairs 1 hr. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 3607'-77 3/4 hrs. Mud weight 9.1, viscosity 50, PV/YP 12/15, gels 8/17, water loss 9.6, pH 10.0, chlorides 2000, solids 6.2%, t/sand, 1/2# LCM. Daily mud \$208.35, accumulative mud \$3,061.29. Mud mix-caustic 1 sk. Deviation 1 1/4°-3872'. Bit weight 38,000#, 1000# pump, rot 80, spm 58. Strap pipe at 3872' (strap short .58)

DST#2 3895'-3914'
 (Lansing 'K' zone)

DST #2 3895'-3914' (Lansing 'K' zone)

30-45-30-45

1/4" blow thruout (1st open)

surface blow died in 10" (2nd open)

REC: 20' DM

FP: 13-16; 16-21#

SIP: 422-413#

12-09-98 4160' drilling. Cut 246'-24 hrs., drilling 12 1/2 hrs., rig check 1/4 hr., jet pit 1/4 hr., circulate 6 1/2 hrs., testing 4 1/2 hrs. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', cut 3853'-90 1/4 hrs. Mud weight 9.2, viscosity 47, PV/YP 12/16, gels 10/26, water loss 10.4, pH 10.5, chlorides 3000, solids 6.7%, t/sand, 1/2# LCM. Daily mud \$39.45, accumulative mud \$3,100.74. Mud mix-gel 35 sks, caustic 3 sks, soda ash 2 sks, lignite 1 sk, hulls 2 sks. Bit weight 35,000#, 1000# pump, rot 80, spm 58.

12-10-98 4300' plugging. Cut 240'-24 hrs., drilling 7 hrs., rig check 1/4 hr., circulate 2 hrs., logging 4 3/4 hrs., laydown pipe 5 1/2 hrs., plugging 2 1/4 hrs., waiting on cement 2 1/4 hrs. Bit #1, 7 7/8" Walker McDonald 51F, SN: 025777, in at 307', out at 4300', cut 3993'-97 1/4 hrs. Mud weight 9.3, viscosity 50, PV/YP 13/20, gels 13/26, water loss 9.6, pH 10.5, chlorides 3200, solids 6.8%, t/sand, 1/2# LCM. Contacted David Wond-KCC in Hays, KS. at 4:30 p.m. on 12-9-98. TD at 2:15 p.m. on 12-9-98. Daily mud \$466.50, accumulative mud \$3,567.24. Pit chloride 5000, calcium 640, volume 1200 bbls. Mud mix-caustic 1 sk. Deviation 1/8°-4300'. Bit weight 38,000#, 1000# pump, rot 80, spm 60. Logger's TD 4300'.

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12-11-98

4300' RTD tear down. Cut 0'-24 hrs., plugging 2 ½ hrs., tear down 5 ½ hrs. Mud weight 9.3, viscosity 50, PV/YP 13/20, gels 13/26, water loss 9.6, pH 10.5, chlorides 3,200, solids 6.8%, t/sand, ½# LCM. Daily mud \$0.00, accumulative mud \$3,567.24. 1st plug @ 1930' w/25 sks, 2nd plug @ 880' w/100 sks, 3rd plug @ 350' w/40 sks, 4th plug @ 40' w/10 sks, 15 sks in rathole, total 190 sks 60/40 pos mix, 6% gel, 1/4# floseal per sk. Cemented by Allied. Plug down at 9:30 a.m. on 12-10-98.

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CONSERVATION DIVISION
Wichita, Kansas

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PRINTED NAME

ORIGINAL

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Dallas

DATE <u>12-3-98</u>	SEC. <u>23</u>	TWP. <u>15 S</u>	RANGE <u>29 W</u>	CALLED OUT	ON LOCATION <u>12:30 AM</u>	JOB START <u>5:00 AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Miller</u>	WELL # <u>1-23</u>	LOCATION <u>Box 14-5, 1/4 W</u>			COUNTY <u>Cow</u>	STATE <u>Kan</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Abercrombie RTD #8
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 302'
 CASING SIZE 8 7/8 DEPTH 303'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT

EQUIPMENT

PUMP TRUCK CEMENTER Walt
 # 102 HELPER Walt
 BULK TRUCK
 # 315 DRIVER Anthony
 BULK TRUCK
 # DRIVER

REMARKS:

CEMENT

AMOUNT ORDERED 225 SKS 60/40 per
3% CC - 2% Cal

COMMON	<u>135</u> SKS	@	<u>7.55</u>	<u>1,019.25</u>
POZMIX	<u>90</u> SKS	@	<u>3.25</u>	<u>292.50</u>
GEL	<u>4</u> SKS	@	<u>9.50</u>	<u>38.00</u>
CHLORIDE	<u>7</u> SKS	@	<u>28.00</u>	<u>196.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>225</u> SKS	@	<u>1.05</u>	<u>236.25</u>
MILEAGE	<u>44</u> per SK/mile			<u>414.00</u>

TOTAL 2,196.00

SERVICE

DEPTH OF JOB 303'
 PUMP TRUCK CHARGE 470.00
 EXTRA FOOTAGE @
 MILEAGE 46 miles @ 2.85 131.10
 PLUG 8 5/8 Surface @ 45.00
 @
 @

TOTAL 646.10

CHARGE TO: Abercrombie Drilling
 STREET 150 N Main Suite 801
 CITY Wichita STATE Ks ZIP 67202-1393

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE

Anthony MorrisAnthony Morris

PRINTED NAME