

CONFIDENTIAL

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

COPYOperator: License # 5393Name: A. L. ABERCROMBIE, INC.Address 150 N. Main, Suite 801City/State/Zip WICHITA, KS 67202Purchaser: Panhandle EasternOperator Contact Person: Steve FrankampPhone (316) 262-1841Contractor: Name: ABERCROMBIE RTD, INC.License: 30684Wellsite Geologist: John Hastings

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: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

3-19-94 4-4-94 5-25-94
Spud Date Date Reached TD Completion Date

API NO. 15- 119-20,900County MEADEApprox. NW NW SE Sec. 19 Twp. 32S Rge. 29 ☒2510' Feet from S (circle one) Line of Section2080' Feet from E (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name ESTES Well # 2Field Name ANGELLProducing Formation ATOKA (AT PRESENT)Elevation: Ground 2712' KB 2717'Total Depth 6150' PSTD 6109'Amount of Surface Pipe Set and Cemented at 1620' FeetMultiple 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 1 874 10-17-94
(Data must be collected from the Reserve Pit)Chloride content 400 calcium
4,400 ppm Fluid volume 3500 bblDewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator **RELEASED** N/ALease Name ANGELL License No. 306842 6 1995 Quarter Sec. 19 Twp. 32S Rge. 29 E/W**FROM CONFIDENTIAL** 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 R. WhartonTitle Vice President Date 6-13-94Subscribed and sworn to before me this 13th day of June 19 94.Notary Public Angela WoodardDate Commission Expires 3-20-97

ANGELA WOODARD
Notary Public - State of Kansas
My Appt. Expires _____

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

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

Operator Name A. L. ABERCROMBIE, INC.Lease Name ESTESWell # 2Sec. 19 Twp. 32 Rge. 29☐ EastCounty MEADE☒ 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 ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No
(Submit Copy.)

List All E.Logs Run:

Compensated Density Neutron

Dual Induction

Micro-Electric

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name Top Datum

See attached.

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 1/2"	8 5/8"	28	1620'	65-35 posmix Class A	527 250	6% gel 3% cc 2% gel 3% cc
PRODUCTION	7 7/8"	5 1/2"	15.5	6138'	50-50 posmix	75	2% gel 3/4% cc 7% gilsonite/sk
					Common	235	BA-29, 4% gilsonite per skt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				

Shots Per Foot	PERFORATION RECORDS - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5586'-5596' (Morrow Sand)	Acidized w/1,000 gal 7.5% HCL Fraced w/351 bbls gelled water mixed w/118,000 CF of CO ₂ , 26,000# sand	5586'-96' 5586-96'
	Set Baker Model D production packer at		5566'
4	5554'-5560' (Atoka)	Acidized w/500 gal 15% HCS	5554'-5560'

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☒ No
	2 3/8"	5553'	KB		
Date of First, Resumed Production, SWD or Inj.	Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)				
W.O. Pipeline connection					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1,000			

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

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

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____

5554'-5560'



ABERCROMBIE RTD, INC.
DRILLING CONTRACTOR

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

CONFIDENTIAL
ORIGINAL

ESTES #2

E/2, SEC. 19-32S-29W
MEADE CO., KS

API#15-119-20900

DST #1 5458'-5533'

30-60-60-60

Gas to surface in 13 minutes

gauged thru 1/4" choke

20 min 20,700 CFGPD

25 min 22,900 CFGPD

30 min 27,000 CFGPD

2nd open period

10 min 32,400 CFGPD

20 min 35,900 CFGPD

30 min 37,600 CFGPD

40 min 40,900 CFGPD

50 min 45,500 CFGPD

60 min 48,700 CFGPD

Rec. 450' fluid; 300' slightly muddy & heavy gas cut
oil (50% oil, 45% gas, 5% mud), 150' heavy mud & gas
cut oil (45% oil, 40% mud, 15% gas)

IFPs 170-125 ISIP 1733

FFPs 193-193 FSIP 1690

ELECTRIC LOG TOPS

HERRINGTON	2689' (+28')
WINFIELD	2772' (-55')
COUNCIL GROVE	3107' (-390')
HEEBNER	4368' (-1651')
LANSING	4512' (-1795')
MARMATON	5118' (-2401')
ATOKA SHALE	5525' (-2808')
MORROW SHALE	5569' (-2852')
MORROW SAND	5578' (-2861')
CHESTER	5656' (-2939')
RTD	6150' (-3433')
LTD	6149' (-3432')

DST #2 5555'-5595' (LOWER ATOKA - MORROW SAND)

30-60-90-60

Gas to surface in 3 minutes

gauge thru 1 1/4" choke 5 minutes 893 MCFGPD

10 minutes 1,064 MCFGPD

15 minutes 1,105 MCFGPD

20 minutes 1,146 MCFGPD

25 minutes 1,146 MCFGPD

30 minutes 1,105 MCFGPD

gauge 2nd open period 10 minutes 937 MCFGPD

20 minutes 1,023 MCFGPD

30 minutes 1,023 MCFGPD

40 minutes 1,064 MCFGPD

50 minutes 1,064 MCFGPD

60 minutes 1,105 MCFGPD

70 minutes 1,105 MCFGPD

80 minutes 1,146 MCFGPD

90 minutes 1,146 MCFGPD

Rec. 100' drilling mud

IFPs 295-295 ISIP 1863

FFPs 352-352 FSIP 1863

KCC

JUN 1 4

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RELEASED

JUN 2 6 1995

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

JUN 1 6 1994

CONSERVATION DIVISION
Wichita, Kansas

39180
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ORIGINAL

ESTES #2

E/2, SEC. 19-32S-29W
MEADE CO., KS

PAGE 2

DST #3 5596'-5621' (MORROW SAND)

30-60-60-60

Gas to surface in 6 minutes gauged thru 1/4" choke

10 min 30,800 CFG

20 min 54,700 CFG

30 min 100,900 CFG

2nd open gauged thru 3/4" choke

10 min 194,000 CFG

20 min 227,000 CFG

stabilized at 227,000 CFG rest of test Rec. 10' drilling mud.

IFPs 136-90 ISIP 857

FFPs 146-68 FSIP 845

DST #4 5963'-6023' (MISS., ST. LOUIS)

30-60-45-60

Weak blow

Rec. 30' SOCM (2% Hvy Blk oil, 98% mud)

IFPs 147-90 ISIP 611

FFPs 159-102 FSIP 261

DST #5 6079'-6102' (LOWER ST. LOUIS)

30-60-30-60

1/2" weak blow, 1st open, 2nd flow no blow

Rec. 15' drilling mud

IFPs 113-79 ISIP 1820

FFPs 147-102 FSIP 1777

DST #6 5548'-5566' (STRADDLE PACKERS)

30-60-30-60

Gas to surface in 3 minutes

gauged thru 1/2" choke 10 minutes 211 MCFGPD

gauged thru 1/2" choke 15 minutes 285 MCFGPD

gauged thru 1/2" choke 20 minutes 337 MCFGPD

gauged thru 1/2" choke 25 minutes 388 MCFGPD

gauged thru 1/2" choke 30 minutes 424 MCFGPD

2nd open period 3/4" choke 10 minutes 370 MCFGPD

2nd open period 3/4" choke 20 minutes 534 MCFGPD

2nd open period 3/4" choke 30 minutes 569 MCFGPD

Recovered 140 gas cut mud

IFPs 136-159 ISIP 1902

FFPs 227-193 FSIP 1896

RELEASED

JUN 26 1995

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JUN 14

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