SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS OIL 4 GAS CONSERVATION DIVISION	API 10. 15- 119-20,900 + 000 9111 1D LITTILL
WELL COMPLETION FORM	County MEADE
DESCRIPTION OF WELL AND LEASE CO.	Approx. NW NW SE sec. 19 Twp. 32S Rge. 29 X
Operator: License # 5393	2510 Feet from SN (circle one) Line of Section
Mare: A. L. ABERCROMBIE, INC.	2080 Feet from EW (circle one) Line of Section
Address _ 150 N. Main, Suite 801	Footages Calculated from Nearest Outside Saction Corner: NE, SE, HW or SW (circle one)
city/State/Zip WICHITA, KS 67202	Lease NameESTES
	Field Name ANGELL
Purchaser: Panhandle Eastern	Producing FormationATOKA (AT PRESENT)
Operator Contact Person: <u>Steve Frankamp</u>	Elevation: Ground 2712' x8 2717'
Phone (316) 262-1841	Total Depth 6150' PBTD 6109'
Contractor: Name: ABERCROMBIE RTD, INC.	
License, 30684	Amount of Surface Pipe Set and Cemented at 1620° Feet
Wellsite Geelogist: John Hastings	Multiple Stage Cementing Collar Used? YeeX Xo
Designate Type of Completion	If yes, show depth set Feet
X New Well Re-Entry Workover	If Alternate II completion, cement circulated from
OILSWDSIOWTemp. AbdSIGW	feet depth to w/ sx cmt.
Dry Other (Core, WSW, Expl., Cathodic, etc)	Drilling Fluid Management Plan ALT 1 194 10-17-94 (Data must be collected from the Reserve Pit)
If Workover/Re-Entry: old well info as follows:	400 calcium
Operator:	Chloride content 4,400 ppm Fluid volume 3500 bbls
Well Mame:	Dewatering method usedevaporation
Comp. Date Old Total Depth	RELEASED If hauled offsite
Deepening Re-perf Conv. to Inj/SUD PBYO	
Commingled Dacket No.	Operator Kama
Dual Completion Docket NoOther (SWD or Inj?) Docket No	FROM CONFIDENTIAL CUNFIDENTIAL
3-19-94 4-4-94 5-25-94	FROM CONFIDENTIAL TUP \$ RngE/V
Spud Date Date Reached TD Completion Date	County Docket No
Derby Building, Wichita, Kansas 67202, within 120 days of Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on 12 months if requested in writing and submitted with the	be filed with the Kansas Corporation Commission, 200 Calorado the spud date, recompletion, workover or conversion of a well, side two of this form will be held confidential for a period of form (see rule 82-3-107 for confidentiality in excess of 12 eport shall be attached with this form. ALL CEMENTING TICKETS is. Submit CP-111 form with all temporarily abandoned wells.
with and the statements herein are complete and correct touth	gated to regulate the oil and gas industry have been fully complied shoot, of my knowledge.
O I V V X Note	ppt. Expires / K.C.C. OFFICE USE DULY PERSONNEL 13-94 F Letter of Confidentiality Attacked F Letter of Confidentiality Attacked F Letter of Confidentiality Attacked F Communication Commu
Vice President Date 6-	13-94 F Letter of Confidentiality Atsaction EB
Subscribed and sworn to before me this 1311, day of first	- 16 lone
Notary Public (dogela Hondard	KGS Plug Wich: With Con
Date Commission Expires 3-20-97	(Specify) () \

			SIDE TUO				
Dereton Mane A. A. IV	_ Rg●. <u>29</u>	: }	County	MEADE Detail all		_	2, stem tests givi
interval tested, tim	e tool open an s, bottom hole (nd closed, flowing a temperature, fluid re-	nd shut-In pres covery, and flow	sures, wheth rates if gas	er shut-in pra to surface dur	ssure reading test.	ched static leve Attach extra she
Orill Stem Tests Take		□ Yee □ No	X Log	Formation	(Tap), Depth	and Datums	[Sample
Samples Sent to Geole	ogical Survey	🖫 Yes 🗆 No	Mane		Тор		Datum
Cores Taken (Lectric Log Run (Submit Copy.)		Yes X Ho	See att	ached.			и
Compensated Den Dual Induction Micro-Electric		on					
	- Report al	CASING RECORD	New U	· · · · · · · · · · · · · · · · · · ·	production, etc		
Purpose of String	Size Hote Orilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percen
SURFACE	12½"	8 5/8"	28	1620'	65—35 posnix Class A	527 250	5% gel 3% cc 2% gel 3% cc
PRODUCTION	7 7/8"	5 1/2"	15.5	6138'	50-50 posmix Cannon	75	230el 13/43CF 7#gilsinite/ BA-29, 4#gilsi
		ADDITIONAL	CEMENTING/SQUE	 	——————————————————————————————————————		per s
Purpose:	Depth Top Bottom parypa of Coment #Sacka Used		Type and Percent Additives				
Perforate Protect Casing Plug Back 70:1		OLINCO MOH:					
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated			racture, Shot, Kind of Mater	•	weeze Record Depth	
	5586'-5596' (Morrow Sand)			Acidized w/1,000 gal 7.5% HCL 5586'-96 Fraced w/351 bols gelled water mixed w/118,000 CF of CO, 26,000# sand 5586-96'			
	Set Baker I	Model D producti	on packer a	i			_55661
4	5554'-5560' (Atoka)		Acidized	w/500 gal 1	5% HCS	5554'-556	
TUBING RECORD	\$12e 2 3/8"	5553' KB	Packer At	 Liner Run 	☐ Yes X	-	
W.O. Pipelin	med Production, ne connectio	SWD or in]. Produ	cing Method区 _下	lowing Pum	ping 🗀 Gas Li	lft 🗆 at	her (Explain)
Estimated Production Per 24 Hours	<u> </u>	8bls. 600 1,000	Hof Wate		Gas-Oit		Gravity
Disposition of Gas: To book to be a common to be		MET	HOLO OF COMPLETS		Comp. Commi	·	reduction Interv

Other (Specify)

CONFIDENTIAL



150 N. Main, Suite 801 / Wichita, Kansas 67202 / 316-262-1841



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

DOT #1 EASOL SECOL

API#15-119-2090U

<u>DST #1 5458'-5533'</u>	ELECTRIC LO	<u>G TOPS</u>
30-60-60-60	HERRINGTON	2689' (+28')
Gas to surface in 13 minutes	WINFIELD	2772'(-55')
gauged thru 1/4" choke	COUNCIL GROVE	3107' (-390')
20 min 20,700 CFGPD	HEEBNER	4368' (-1651')
25 min 22,900 CFGPD	LANSING	4512 (-1795')
30 min 27,000 CFGPD	MARMATON	5118' (-2401')
2nd open period	ATOKA SHALE	5525' (-2808')
10 min 32,400 CFGPD	MORROW SHALE	5569' (-2852')
20 min 35,900 CFGPD	MORROW SAND	5578' (-2861')
30 min 37,600 CFGPD	CHESTER	5656' (-2939')
40 min 40,900 CFGPD	RTD	6150' (-3433')
50 min 45,500 CFGPD	LTD	6149' (-3432')
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)		

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

30-60-90-60

Gas to surface in 3 minutes

IFPs 170-125 ISIP 1733 FFPs 193-193 FSIP 1690

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 MCFPGD

80 minutes 1,146 MCFGPD

90 minutes 1,146 MCFGPD

Rec. 100' drilling mud

IFPs 295-295 ISIP 1863

FFPs 352-352 FSIP 1863

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RELEASED

.1111 2 6 1995

FROM CONFIDENTIAL

STATE CORPORATION COMMISSIO

CONSERVATION DIVISION Wichita, Kansas

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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

<u>DST #6 5548'-5566'</u> (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 FROM CONFIDENTIAL

RELEASED

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JUN 1 4

CONFIDENTIAL

Recovered 140 gas cut mud IFPs 136-159 ISIP 1902 FFPs 227-193 FSIP 1896

Phone 913-483-2627, Russell, KS Phone 316-793-5861, Great Bend, KS Phone 913-625-5516, Hays, KS Phone 913-672-3471, Oakley, KS Phone 316-886-5926, Medicine Lodge, KS Phone 913-798-3843, Ness City, KS

Home Office P. O. Box 31 Russell, Kansas 67665 New Called Out On Location Гwр. Range Job Start Finish 11:00 AM 29w 8:30 PM 3,30 AM Meade Well No. Location 54me Contractor Owner 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-Hole Size Charge Csg. Abercrombic Depth Tbg. Size Street Depth Drill Pipe City The above was done to satisfaction and supervision of owner agent or Tool Depth contractor. Cement Left in Csg. Shoe Joint Purchase Order No. Press Max. Minimum 46,58BL Meas Line Displace ·Perf. Amount 75585 50/50 207 Kol-5-41 78 Ordered 235 5K5 Class # + 4 Kol-5-41 7470 CD-3 **EQUIPMENT** Consisting of Common No. Cementer Max Ball Poz. Mix 2*66* JUSTIN Hart 3,00 Helper Pumptrk 9.00Cementer <u>10.a</u>4 Helper Pumptrk Sweep 1000 d JOHN Kelley Driver 2*56* .36 Bulktrk 21.80 109,00 Bulktrk Driver 4.25 <u>JUN 1 4</u> Handling RELEASED 310,00 L_{L} DEPTH of Job 6/38 Mileage Reference: Pump CHarge Floating Equipm 1451.75 Guide SHOC Total Csq with loogal Mudswee Ylva Pat of Mouse Hole With 205Ka

lumitLives from Plug Displace 146,5 ABLANDRUG

Reciprocating

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this icontract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

-TERMS: Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the 🛝 job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

-ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited

to, a reasonable sum as and for attorney's fees:

-PRICES AND TAXES: All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

-PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

-DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S

current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- —SERVICE CONDITIONS AND LIABILITIES: 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.
- 3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALTED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, of allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replace ment the real of the repair of replace mental provided, and ALLIED shall not be liable for any consequent tial, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

कार्डा रहाँके

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warkanty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED; unless the inaccuracy or incorrectness is caused by the wilful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

And the Park May Broken Mark March

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 4724

ALI		ING CO., INC, 4724			
NEW WELL	lome Office P. O. Bex 31	Russell, Kansas 67665 UNFILENIIAL			
Sec.	Twp. Range Called C	Job State			
Date 3 - 20 - 94 19	325 29W 2:30f	5:30° 9:25 10:25			
Lease £57£5 Well No.	2 Location/60 23.Jet	IN PEACE PLW - 2/25-13 MEADE KANSAS			
Contractor Aben Bombie R.	7. D REE #5 0	MER A, L. AbertrombEE INC.			
	Cog, To	Allied Cementing Co., Inc.			
Hole Size 12 14	T.D. 1628	menter and helper to assist owner or contractor to do work as listed.			
cs. 85/8 28#	Depth 1620 Cha	4.6. Aberrombee INC			
Tbg. Size	Depth	CT-0			
Drill Pipe	Depth JUN 1 4 City	a) l) t			
Tool RELEASED	Depth CONFIDENTIAL The	above was done to satisfaction and supervision of owner agent or tractor.			
Cement Left in Csg.	Shoe Joint /8	chase Order No.			
Press Max.	Minimum 100	11/ C Caris			
Meas Line ROM CONFIDENTI	Displace 100 BHS 1720	(Lite) CEMENT			
_ Perf	<u>528</u>	TO SECOND TO SEC			
EQUIPM	ENT On	rdered 25Dax (ASSA + 3ECC+776E) -			
		onsisting of 5, 85 1712.5			
No. Cementer 37 Pumptrk 338/365 Helper	IN NEAL K I—	ommon 250 5,85 17/2,50 oz. Mix			
No. Cementer	Ge				
Pumptrk Helper		hloride 23 25.00 575.0 wickset (70 Seal 131 110 144.1			
Driver	MARK B.	525 Lite 5.85 307/2			
Bulktrk 25/25/ Driver	John K	Salor Tax			
		andling 775 1.00 775.0			
DEPTH of Job 16 201	Mi	ileage 35 1085,0			
Reference: Pump Tu	le 980.00 -	THAI \$ 9109.60			
35 Mileage	78,75	Disc - 1821.92			
1 85/8 Top Hul	ber Plus 8:3,00	(17287.68) Total 7407.8			
	• • • • • • • • • • • • • • • • • • •	osting Equipment			
	Total /14/,75 /-	AFUTUSETT - 258,00			
Remarks: PAN 85/8 TO 162	C'-CENEUTED WITH 1-	BASKET - 180,00			
		CEUTPALIZERS - 122.00			
	Class A + 32 CC+	# 51000			
22(4) ~ DISPURED P	109 TO 1602 WEY	——————————————————————————————————————			
100Bds Fresh 175- A	. F.D. Hald!				
CEMEUT DEO CIRCULIEL Estra 100 Sacks used per Bill Craig					

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract,

unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements

caused by contamination of water or other fluids.

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2. More specifically:

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plish the job as an independent contractor and not as an employee or agent of the CUSTOMER.