

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

API NO. 15- 163-23279-60-00 ORIGINAL  
County Rooks  
25'N - E/2 - W/2 - SW Sec. 11 Twp. 10S Rge. 18 XX W  
990' Feet from E/W (circle one) Line of Section  
1345' Feet from N/S (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name Croffoot Well # 12  
Field Name Marcotte  
Producing Formation Arbuckle  
Elevation: Ground 2238 KB 2246  
Total Depth RTD 3845' PBDT  
Amount of Surface Pipe Set and Cemented at 215' Feet  
Multiple Stage Cementing Collar Used? XX Yes      No  
If yes, show depth set 1674' Feet  
If Alternate II completion, cement circulated from 1674  
feet depth to 000' w/ 300 sx cmt.

Operator: License # 3456  
Name: AFG Energy Inc.  
Address P.O. Box 458  
      
City/State/Zip Hays, KS 67601  
Purchaser: NCRA  
Operator Contact Person: Terry Piesker  
Phone ( 913 ) 625-6374  
Contractor: Name: Discovery Drilling  
License: 31548  
Wellsite Geologist: Ed Glassman  
Designate Type of Completion  
XX New Well      Re-Entry      Workover  
XX Oil      SWD      SLOW      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      PBDT  
     Commingled      Docket No.       
     Dual Completion      Docket No.       
     Other (SWD or Inj?)      Docket No.       
6-28-96 7-6-96 7-6-96  
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)  
Chloride content 22,000 ppm Fluid volume 3000 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 Edgar S. Glassman  
Title Geologist Date 9-3-96  
Subscribed and sworn to before me this 6<sup>th</sup> day of Sept. 1996.  
Notary Public Linda K Pfannenstiel  
Date Commission Expires 2/5/2000

9-9-96  
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)

Rec'd 09-09-1996

LINDA K. PFANNENSTIEL  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 2/5/2000

**SIDE TWO**

Operator Name AFG Energy Inc Lease Name Croffoot Well # 12

Sec. 11 Twp. 10S Rge. 20  East  West  
 County \_\_\_\_\_ Rooks \_\_\_\_\_

**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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)  List All E.Logs Run: Density-Neutron, Dual Induction, Cased hole Gamma Ray, Correlation Bond, Case Hole Neutron	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <b>Formation (Top), Depth and Datum</b>  <table border="0" style="width:100%"> <tr> <td style="width:60%">Name</td> <td style="width:20%">Top</td> <td style="width:20%">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1682</td> <td>+564</td> </tr> <tr> <td>Base Anhydrite</td> <td>1724</td> <td>+522</td> </tr> <tr> <td>Topeka</td> <td>3255</td> <td>-1009</td> </tr> <tr> <td>Heebner</td> <td>3459</td> <td>-1213</td> </tr> <tr> <td>Lansing</td> <td>3496</td> <td>-1250</td> </tr> <tr> <td>Base Kansas City</td> <td>3714</td> <td>-1468</td> </tr> <tr> <td>Simpson</td> <td>3767</td> <td>-1521</td> </tr> <tr> <td>Arbuckle</td> <td>3780</td> <td>-1534</td> </tr> </table>	Name	Top	Datum	Anhydrite	1682	+564	Base Anhydrite	1724	+522	Topeka	3255	-1009	Heebner	3459	-1213	Lansing	3496	-1250	Base Kansas City	3714	-1468	Simpson	3767	-1521	Arbuckle	3780	-1534
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CASING RECORD <input type="checkbox"/> New <input checked="" 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 Pipe	12.25	8.625	#28	215'	60/40 POZ	140	2%gel & 3%CC
Production	7.875	5.5	#17	3842	Common	175	10% salt
							5% Gillsonite

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
_____ Perforate <input checked="" type="checkbox"/> Protect Casing _____ Plug Back TD _____ Plug Off Zone	000 - 1674'	60/40 POZ	300	6% Gel, .25# Flo-seal/sx, cement did circulate

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
4 SPF	3782 to 3785	None	
4 SPF	3827 to 3829	250 gal. 15% INS	
	Set CIBP at 3798'		

TUBING RECORD		Size	Set At	Packer At	Liner Run		
		2.875	3795'	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj. 8-6-96				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	Bbls.	Gas	Mcf	Water	Bbls.	Gravity
	18				.110		NA

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

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

ORIGINAL

AFG Energy Inc.  
P.O. Box 458  
Hays, KS 67601

15-163-23279-00-00

RE: Croffoot #12  
Drill Stem Test Report

- DST #1 Interval: 3279 to 3293  
Times: 30-30-15-30  
Recovery: 60' Drlg. Mud  
SIP: 929-929  
FP: 77-100
- DST #2 Interval: 3497 to 3555  
Times: 15-30-45-30  
Recovery: 90' WM  
SIP: 500-411  
FP: 100-111
- DST #3 Interval: 3557 to 3605  
Times: 15-30-45-30  
Recovery: 454' MW  
SIP: 265-206  
FP: 49-147
- DST #4 Interval: 3652 to 3715  
Times: 15-30-45-30  
Recovery: 248' Drlg Mud; 186' Oil sptd mud; 62' OCM 30% Oil  
SIP: 986-788  
FP: 206-236
- DST #5 Interval: 3745 to 3800  
Times: 30-60-30-60  
Recovery: 67' CO; 496' MCO; 62' OCM; 124' MW  
SIP: 344-364  
FP: 344-344

RECEIVED  
KANSAS DRILLING COMPANY  
1998 SEP -9 A 11:39  
09-09-1998

TELEPHONE:

AREA CODE 913 483-2627  
AREA CODE 913 483-3887

**ALLIED CEMENTING COMPANY, INC.**

P. O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

TO: AEG Energy Inc.  
P. D. Box 452  
Hays, Kansas 67601  
8 5/8" Surface Pipe

15-163-23279-00-00

JUL - 2 1996

INVOICE NO. 72760  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Croffoot #12  
DATE June 28, 1996

SERVICE AND MATERIALS AS FOLLOWS:

Common 84 sks. @\$6.10	\$ 512.40
Pozmix 56 sks. @\$3.15	176.40
Gel 2 sks. @\$9.50	19.00
Chloride 4 sks. @\$28.00	<u>112.00</u>
Handling 140 sks. @\$1.05	147.00
Mileage (40) @\$0.04c per s per mi	224.00
Surface	445.00
Mi @\$2.85 pmp. trk.	114.00
1 plug	<u>45.00</u>

RECEIVED  
KANSAS CEMENT CO. INC.  
SEP - 9 A 11:39

819.80

975.00

Total \$ 1,794.80

If Account CURRENT a  
Discount of \$ 269.22  
will be Allowed ONLY if  
Paid Within 30 Days from  
Date of Invoice.

AEG  
96-24

June / AFR / 1,525.58

Thank You!

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

# ALLIED CEMENTING CO., INC. 6865

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

15-163-23279-00-00  
ORIGINAL SERVICE POINT:  
Russell

DATE <u>2-6-96</u>	SEC. <u>11</u>	TWP. <u>10 S</u>	RANGE <u>20 W</u>	CALLED OUT <u>8:00 AM</u>	ON LOCATION <u>11:00 AM</u>	JOB START <u>3:30 PM</u>	JOB FINISH <u>4:00 PM</u>
LEASE <u>CROFFOOT</u> WELL # <u>12</u>		LOCATION <u>Ellis N. To Co. Line</u>		COUNTY <u>ROOKS</u>	STATE <u>KANSAS</u>		
OLD OR <u>(NEW)</u> (Circle one) <u>1 1/4 E 4 1/2 N 1/4 W INTO.</u>							

CONTRACTOR DISCOVERY DRILLING RIG #1

TYPE OF JOB PRODUCTION STRING

HOLE SIZE 7 7/8 T.D. 3845'

CASING SIZE 5 1/2 17# DEPTH 3842'

~~THREADED~~ PORT COLLAR DEPTH 53 3/4 / 1624

DRILL PIPE DEPTH \_\_\_\_\_

TOOL AFU INSERT DEPTH 3832'

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT 10'

CEMENT LEFT IN CSG 10'

PERFS. 17# ESG 89 1/4 / RRL

OWNER \_\_\_\_\_ CEMENT \_\_\_\_\_

AMOUNT ORDERED 175 COM. 10% SALT

5% GILSONITE

500 GAL WFR-2

COMMON	<u>175 @ 610</u>	<u>106750</u>
POZMIX	<u>@ 50</u>	
GEL	<u>@ 50</u>	
CHLORIDE	<u>@ 50</u>	
<u>SALT</u>	<u>17 @ 700</u>	<u>119.00</u>
<u>Gil</u>	<u>823 @ 41</u>	<u>337.43</u>
<u>WFR-2</u>	<u>500 gal @ &gt; 1.00</u>	<u>500.00</u>
HANDLING	<u>@ 105</u>	<u>183.75</u>
MILEAGE <u>37 m</u>	<u>04</u>	<u>259.00</u>
TOTAL		<u>2466.68</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

# 177 HELPER awil

BULK TRUCK DRIVER Brent

# 160 DRIVER \_\_\_\_\_

BULK TRUCK DRIVER \_\_\_\_\_

REMARKS:

FLOAT HELD

15 SK @ RAT HOLE

10 SK @ MOUSE HOLE

Shamba

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 1030.00

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE 37 @ 285 10545

PLUG 1-5 1/2 RUBBER @ \_\_\_\_\_ 50.00

TOTAL 1185.45

CHARGE TO: AFG. ENERGY INC.

STREET PO Box 458

CITY Hays STATE Kan ZIP 67601

FLOAT EQUIPMENT

<u>1- Guide Shoe</u>	<u>@</u>	<u>168.00</u>
<u>1- AFU INSERT</u>	<u>@</u>	<u>263.00</u>
<u>4- CENTRALIZERS</u>	<u>@ 56.00</u>	<u>224.00</u>
<u>1- BASKET</u>	<u>@</u>	<u>142.00</u>
<u>1- ARROW PORT COLLAR</u>	<u>@</u>	<u>2340.00</u>
TOTAL		<u>3137.00</u>

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.

SIGNATURE E. J. Harrison

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., INC. 7383

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

ORIGINAL

SERVICE POINT: Russell

DATE: <u>7-29-96</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:15 Am</u>	JOB START <u>10:15 Am</u>	JOB FINISH <u>11:15 Am</u>
LEASE: <u>Crow Foot</u>	WELL# <u>12</u>	LOCATION: <u>Ellis N. To Co. Line</u>			COUNTY: <u>Rooks</u>	STATE: <u>KANSAS</u>	

OLD OR NEW (Circle one) 1 E 3 1/2 N 1/2 was into

CONTRACTOR: <u>STEWART Well Service</u>		OWNER: _____
TYPE OF JOB: <u>Open Port Collar - Circ. Cement</u>		CEMENT: _____
HOLE SIZE _____	T.D. _____	(USED 300)
CASING SIZE: <u>5 1/2</u>	DEPTH _____	AMOUNT ORDERED: <u>350 sk 60 676 Gel</u>
TUBING SIZE: <u>2 7/8</u>	DEPTH _____	<u>1 qt # F10-Seal</u>
DRILL PIPE: <u>(Rick)</u>	DEPTH: <u>(ARROW PORT COLLAR)</u>	<u>Per sk.</u>
TOOL: <u>REINHARDT Oil Tools</u>	DEPTH: <u>1630</u>	
PRES. MAX _____	MINIMUM _____	COMMON: <u>180 @ 610 = 1098.00</u>
MEAS. LINE _____	SHOE JOINT _____	POZMIX: <u>120 @ 315 = 378.00</u>
CEMENT LEFT IN CSG. _____		GEL: <u>16 @ 9.50 = 152.00</u>
PERFS. _____		CHLORIDE: _____ @ _____
		<u>F10 Seal 75 @ 115 = 86.25</u>

**EQUIPMENT**

PUMP TRUCK	CEMENTER: <u>Alma</u>
# <u>177</u>	HELPER: <u>Will</u>
BULK TRUCK	
# <u>291</u>	DRIVER: <u>Desin</u>
BULK TRUCK	
# _____	DRIVER _____

HANDLING	@ <u>105</u>	<u>367.50</u>
MILEAGE: <u>37m</u>	<u>04</u>	<u>518.00</u>

TOTAL: 2599.75

**REMARKS:**

**SERVICE**

Cement Did Circ

DEPTH OF JOB _____	
PUMP TRUCK CHARGE _____	<u>550.00</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE: <u>37</u> @ <u>285</u>	<u>105.45</u>
PLUG _____ @ _____	
_____ @ _____	
_____ @ _____	

TOTAL: 655.45

CHARGE TO: AFG ENERGY Inc.  
STREET: P.O. Box 458  
CITY: Hays STATE: Kan ZIP: 67601

**FLOAT EQUIPMENT:**

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

TOTAL: \_\_\_\_\_

TAX \_\_\_\_\_  
TOTAL CHARGE \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.  
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SIGNATURE \_\_\_\_\_