

CONFIDENTIAL
SIDE ONE

RELEASED
CONFIDENTIAL
DEC 13 1991

ORIGINAL

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

Operator: License # 3456

Name: AFG Energy, Inc.

Address P. O. Box 605

City/State/Zip Russell, KS 67665-0605

Purchaser: NCRA

Operator Contact Person: Terry W. Piesker

Phone (913) -483-6213

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Steve Parker

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

10/10/90 10/15/90 10/30/90

Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,120 ~~80-80~~ FROM CONFIDENTIAL

County Rooks

C W/2 SW NE Sec. 27 Twp. 9S Rge. 20 East West

3300 Ft. North from Southeast Corner of Section

2310 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

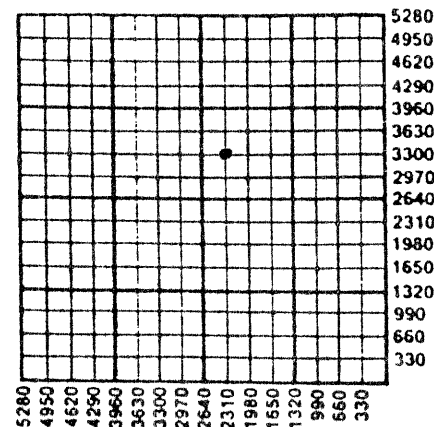
Lease Name Rathbun Well # 10

Field Name North Hampton

Producing Formation Arbuckle

Elevation: Ground 2274' KB 2279'

Total Depth 3900' PBTD 3854'



Amount of Surface Pipe Set and Cemented at 268 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1750 Feet

If Alternate II completion, cement circulated from 1750

feet depth to 0 w/ 350 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

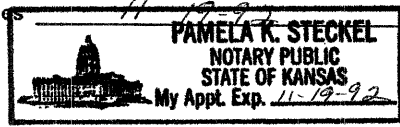
Signature Terry W. Piesker

Title General Manager Date 11-5-90

Subscribed and sworn to before me this 5th day of November, 19 90.

Notary Public Pamela K. Steckel

Date Commission Expires 11-19-92



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

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

Operator Name AFG Energy, Inc. Lease Name Rathbun Well # 10
 East County Rooks
 Sec. 27 Twp. 9S Rge. 20 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.)

Name	Formation Description	
	Top	Bottom
Topeka	3290'	
Heebner	3494'	
Toronto	3517'	
L-KC	3533'	
B-KC	3738'	
Arbuckle	3830'	

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

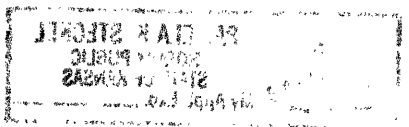
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23	268'	60/40 Poz	160	2% Ge 13% CC
Longstring	7 7/8"	5 1/2"	14.5	3899'	Common	125	10% Salt

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		4/ft	3856' to 3858.5' (squeezed)
4/ft	3848' to 3849.5'	150 gal. 15% INS	

TUBING RECORD Size 2 7/8" Set At 3810' Packer At _____ Liner Run Yes No

Date of First Production 11-1-90 Producing Method Flowing Pumping Gas Lift Other (Explain) _____
 Estimated Production Per 24 Hours
 Oil 55 Bbls. Gas _____ Mcf Water _____ Bbls. Gas-Oil Ratio _____ Gravity 25

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____



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EMPHASIS OIL OPERATIONS

FROM CONFIDENTIAL

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: AFG Energy, Inc.
P. O. Box 605
Russell, Kansas 67665-0605

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Rathbun

WELL #10

LOCATION: C W/2 SW NE
Section 27-9S-20W
Rooks County, Kansas

LOGGERS TOTAL DEPTH: 3890'

ROTARY TOTAL DEPTH: 3900'

ELEVATION: 2279' K.B.

COMMENCED: 10/10/90

COMPLETED: 10/15/90

CASING: 8-5/8" @ 268' w/160 sks cement
5-1/2" @ 3899' w/350 sks cement (Top Stage)
w/125 sks cement (Bottom Stage)

STATUS: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Dakota Sand	980'	Toronto	3516'
Cedar Hills	1235'	Lansing-Kansas City	3533'
Anhydrite	1747'	Base Kansas City	3754'
Topeka	3286'	Arbuckle	3830'
Heebner	3491'	R.T.D.	3900'

NOV 6 1990

STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.

Kyle B. Branum

Kyle B. Branum

Subscribed and sworn to before me on October 16, 1990.

My commission expires: February 6, 1992.

GLEND A. TIFFIN
NOTARY PUBLIC
STATE OF KANSAS
10/16/90

Glenda R. Tiffin

Glenda R. Tiffin, Notary Public

ORIGINAL
Rathbun #10
(Completion)

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FROM CONFIDENTIAL

- 10-22-90 Moved in double drum and rigged up.
- 10-23-90 Ran 4 7/8" bit on 2 7/8" tubing. Drilled on DV tool at 1756'. Drilled up D.V. Tool and ran bit to bottom. TD - 3866'. Circulated hole clean to 3869'. Pulled tubing and bit.
- 10-24-90 Ran Correlation Bond Log. Loggers TD - 3868'. Swabbed 5 1/2" casing to 3000'. Perforated 4 holes per ft. 3856' to 3858 1/2'. Checked fluid to start and was 3120'. Ran up out of fluid. Let set 3 minutes and fluid at 2960'. Ran 15' MA and 1' SN on 124 jts - 2 7/8" tubing. MA is 15' off bottom. Rigged up tubing swab. 3 1/2 hrs. later - fluid was 1900' down. Oil on 1st pull - pulled from 2400'. Hooked to swab tank. Started pulling from 3000'. Swabbed steady for 1 hr. - 28 bbls, 3% oil. Hitting fluid at 2500' each pull. Started 2nd hr - hit fluid at 2350' after waiting 10 minutes. Started pulling 1000' per pull. Got fluid down to 2700' pulling steady. Swabbed 64 bbls total - 3% oil.
- 10-25-90 Fluid at 1950'. Pulled 4 bbls. w/scum of oil. Pull tubing. Ran 5 1/2" packer on 2 7/8" tubing.
- 10-26-90 Spotted 250 gal, 15% acid on bottom. Pulled 2 jts. tubing. Set packer at 3788'. Took injection rate - 6 BPM at 600#. Cemented w/100 sx. common, squeezed beautifully at 2000#. Got 70 sxs. into formation. Cleaned up hole. Pulled tubing and packer.
- 10-27-90 & 10-28-90 Shut down.
- 10-29-90 Ran 4 7/8" bit on 2 7/8" tubing. Hit cement at 3786'. NOV 6 1990
Drilled to 3854'. Pressured to 500# & held OK. Pulled tubing and bit. Swabbed down to 2700'. Loggers TD - 3854'. Perforated 3848' to 3849 1/2' w/4 shots per ft. Ran bailer and had no fillup.
- 10-30-90 Ran bailer in to bottom - fluid was still at 2700' from surface. Bailer had a slight show of oil. Rigged up swab. Swabbed to bottom. Ran bailer and started to have show of oil cut mud. Ran bailer several times and oil getting better. Dried hole up. Dumped 150 gal, 15% INS Acid. Dumped 60 bbls. SW on top. Ran bailer in to check fluid level. Fluid should be at 1250'. Fluid was at 1600'. Came out of hole and let set 15 min. - Ran in and fluid at 1900'. Pulled bailer off bottom. Had a show of oil and little hot acid from 6' of rat hole. Ran bailer again and had good show of gassy oil.

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10-30-90 (Con't) Ran 123 jts - 2 7/8" tubing with 15' MA and 1' SN 30' off bottom. Rigged up swab. Good show of oil on 2nd pull. 4th pull - 4% oil. Began with fluid at 1900'. By 4th pull fluid at 2350'. Going no deeper than 3000' down. By 6th pull - 12.5% oil. Made 8 runs and shut down. Total load to recover - 64 bbls - total back - 29.

FROM CONFIDENTIAL

10-31-90 Fluid at 1700'. First pull 6 bbls, 100% oil. 1 hr swab test - 35 Bbls, from 12% oil to 100% oil on last 3 pulls. Fluid at 2400' and never pulled below 3000'. Ran 20 - 7/8" rods, 80 - 3/4" rods and 52 - 7/8" rods with 2" x 1 1/2" x 12' pump (Maximum stroke length - 74"). Tore down and moved off.

*Note: we may not have perforated correctly in the 3rd break. The good shows were not where it looked good on the log. The good shows correspond to perforations on the other wells.

NOV 16 1991

33-2627 Russell, Kansas
 J-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N^o 9038

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	Sec	Twp	Range	Called Out	On Location	Job Start	Finish
10-15-90	27	9 ^s	20 ^w	7:00 A.M.	10:00 A.M.	12:40 P.M.	1:30 P.M.
Lease <i>Rothman</i>	Well No. <i>10</i>	Location <i>Palo 1E 1/2 S 1/2 W</i>			County <i>Hooker</i>	State <i>Ks.</i>	

Contractor <i>Emphasis Oil Operations Rig #2</i>	Owner <i>Same</i>
Type Job <i>Two-Stage Production String</i>	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
Hole Size <i>7 1/2"</i>	T.D. <i>3900'</i>
Csg. <i>5 1/2"</i>	Depth <i>3899'</i>
Sub Size <i>8 7/8"</i>	Depth <i>274'</i>
Drill Pipe	Depth
Tool <i>D.V. (Arrow)</i>	Depth <i>1771'</i>
Cement Left in Csg. <i>35'</i>	Shoe Joint <i>34.54'</i>
Press Max. <i>1000 #</i>	Minimum <i>DEFERRED</i>
Meas Line <i>X</i>	Displace <i>STATE CORPORATION COMMISSION</i>
Perf.	<i>NOV 17 1990</i>

Charge To <i>AFB Energy, Inc.</i>
Street <i>P.O. Box 605</i>
City <i>Russell</i> State <i>Ks.</i> <i>67665</i>
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
<i>X</i> <i>W. Kunkin</i>
CEMENT

EQUIPMENT

CONSERVATION DIVISION
 Wichita, Kansas

No.	Cementer	<i>Gary H.</i>
Pumptrk <i>191</i>	Helper	<i>Wayne Mc</i>
No.	Cementer	
Pumptrk	Helper	
	Driver	<i>Alan C</i>
Bulktrk <i># 212</i>	Driver	

Amount Ordered <i>125 sks cement 10 lbs salt</i>	
Consisting of	
Common <i>125 sks @ 5.23/sk.</i>	<i>656.25</i>
Poz. Mix	
Gel.	
Chloride	
Quickset	
<i>Salt - 12 sks @ 4.75/sk.</i>	<i>57.00</i>
Sales Tax	
Handling <i>@ 1.00/sk (125 sks)</i>	<i>125.00</i>
Mileage <i>@ 0.37/sk/mi (13 mi.)</i>	<i>48.75</i>
Sub Total	<i>\$ 887.00</i>
Total	

DEPTH of Job

Reference: <i>#3 Pumptruck long string</i>	
<i>bottom stage</i>	<i>\$ 280.00</i>
<i>#13 mileage @ 2.00/mi</i>	<i>26.00</i>
Sub Total	<i>\$ 306.00</i>
Tax	
Total	

Floating Equipment <i>5 1/2"</i>	
<i>1 - Two-stage collar (Arrow)</i>	<i>2310.00</i>
<i>1 - regular guide shoe</i>	<i>125.00</i>
<i>1 - AFU insert (Mach C)</i>	<i>189.00</i>
<i>1 - cementing basket</i>	<i>12.00</i>
<i>4 - couplings</i>	<i>185.00</i>
	<i>2731.00</i>

Remarks

Front Yard

Bo

ORIGINAL

2627, Russell, Kansas
/93-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 9039

Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	10-15-90	Sec.	27	Twp.	9 ²	Range	20 ^W	Called Out	7:00 A.M.	On Location	10:00 A.M.	Job Start	7:50 P.M.	Finish	2:45 P.M.
Lease	R. Allman	Well No.	10	Location	P.O. 1E 1/2 S 1/2 W			County	Rock	State	KS.				
Contractor	Emphasis Oil Operations Rig #2														
Type Job	Two Stage Production String														
Hole Size	7 1/2"	T.D.	3900'												
Csg.	5 1/2"	Depth	3894'												
Csg. Top Size	8 7/8"	Depth	274'												
Drill Pipe															
Tool	DN (Anchor)	Depth	1771'												
Cement Left in Csg.	35'	Shoe Joint	34.54'												
Press Max.	1250 #	Minimum													
Meas Line	Y	Displace	RECEIVED												
Perf.															

Owner Emphasis
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To AFG Energy, Inc.
 Street P.O. Box 105
 City Russell State Ks. 67665
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. 1
 X Tommy III Pickens
CEMENT

Amount Ordered 350 sks @ 110 gals 6 bag

Consisting of

Common	210 sks @ 5.25/sk	1102.50
Poz. Mix	140 sks @ 2.25/sk	315.00
Gel.	12 sks @ 6.75/sk	81.00
Chloride		
Quickset		

Handling	@ 1.09/dk. (350 sks)	350.00
Mileage	0.032/sk/mi (13 mi)	136.50
Sub Total		1985.00
Total		1985.00

Floating Equipment Thanks

EQUIPMENT

No.	Cementer	Gary H.
Pumptrk 191	Helper	
No.	Cementer	Wayne Mc.
Pumptrk	Helper	
	Driver	Jim D.
Bulktrk #106	Driver	

DEPTH of Job

Reference:	#3 Pumptrk top stage	\$475.00
	#10 mileage	N/C.
Sub Total		\$475.00
Tax		
Total		\$475.00

Remarks: Cement put in circulation. No. 10 opened & closed with 2 1/2" plug. Plugged out hole with 1 1/2" x 1/2" pipe.