

21462 ORIGINAL

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

165-21,464-0000

API NO. 15-.....  
County Rush.....  
NW/4 SW/4 SE/4 29 17S 16W East  
..... Sec..... Twp..... Rge.....  West

Operator: License # 3456  
Name AFG Energy, Inc.  
Address P. O. Box 605  
City/State/Zip Russell, Ks. 67665

990 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser Enron Gas Purchasing

Lease Name Rothe "C" Well # 1  
Field Name Reichel

Operator Contact Person Mr. Terry Piesker  
Phone 913-483-6213

Producing Formation Kansas City-Topeka  
Elevation: Ground 2051 2056 KB

Contractor: License # 5302  
Name Red Tiger Drilling Company

Wellsite Geologist Steve Parker  
Phone

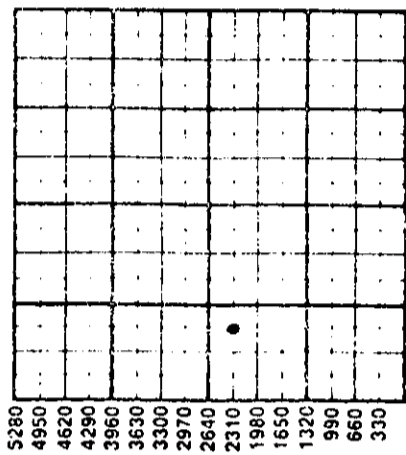
Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWWO: old well info as follows:

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Section Plat



6-30-93

Operator .....  
Well Name .....  
Comp. Date ..... Old Total Depth.....

STATE CORPORATION COMMISSION

JUL - 6 1990

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
 Reinjecting

Drilling Method:

WELL HISTORY

CONSERVATION DIVISION  
Wichita, Kansas

Mud Rotary  Air Rotary  Cable  
2/23/89 3/4/89  
Spud Date Date Reached TD Completion Date  
3,580' 3526'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 253 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name .....  
Invoice # .....

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:  
Division of Water Resources Permit # T89-079.....

Groundwater 5000 Ft North from Southeast Corner  
(Well) 2500 Ft West from Southeast Corner of  
Sec 20 Twp 18S Rge 16 East  West  
Adolph Schrott, Albert, Ks. 67511  
 Surface Water.....Ft North from Southeast Corner  
(Stream, pond etc).....Ft West from Southeast Corner  
Sec Twp Rge East West  
 Other (explain).....  
(purchased from city, R.W.D. #)

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. 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 Terry W. Piesker

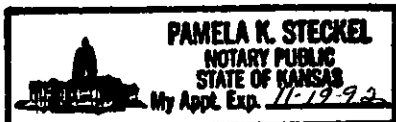
Title General Manager Date 7-5-90

Subscribed and sworn to before me this 5th day of July 1990

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



Sec. 188, Rge. 16

SIDE TWO

Operator Name AFG Energy, Inc. Lease Name Rothe "C" Well # 1

Sec. 29 Twp. 17S Rge. 16W  East  West County Rush

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

"See Attached Copy"

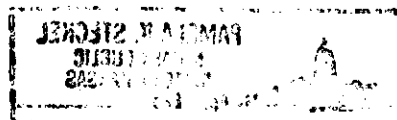
Name	Top	Bottom
Winfield	1965	
Cottonwood	2356	
Neva	2438	
Brownville	2657	
Tarkio	2767	
Howard	2953	
Topeka	3020	
Heebner	3257	
Toronto	3274	
Lan-KC	3312	3518
Granite	3549	
TD	3580	

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	12 1/4"	8 5/8"	20#	261'	60/40 Poz	160	3%CC, 2%Gel
Production	7 7/8"	4 1/2"	10.5#	3,579'	Common	175	10% Salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
.2 shots/ft.	3504' to 3508' 3486 to 3490 3469 to 3472'			500 gal. 15% acid each zone			
.2 holes/ft.	3344' to 3348' & 3334' to 3338'			500 gal. 15% acid each			
.2 holes/ft.	3020' to 3028'			750 gal. 15% Reg.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Set At		Packer at			
4-13-89		3466.53					
Date of First Production		Producing Method					
4-13-89		<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
3020' to 3028'			45	3 bbls. water per day			
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  Commingled

Production Interval  
 3504' to 3508'  
 3486' to 3490'  
 3469' to 3472'  
 3344' to 3348'  
 3334' to 3338'  
 3020' to 3028'



15-165-2142-0000

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ROTHE "C" #1

CONSERVATION DIVISION

Wichita, Kansas

- 3-16-89 -- Moved in Double Drum and rigged up. Ran correlation and band log. Top of cement 2620'. Perforated 3504' to 3508', 3486' to 3490' and 3469' to 3472' with two shots per ft. wind blowing 40 to 50 MPH. Could not run BP, Packer and tubing.
- 3-17-89 -- Hole was full of fluid. Had problems getting BP to drop. Had to push first eight jts. in hole. Came back out after packer. Ran 4 1/2" Packer on 2 3/8" tubing. Wind was blowing bad again. Put BP at 3520'. Pulled up and spotted 300 gal., 15% Reg. over perfs at 3504' to 3508'. Set Packer at 3496'. Treated at 1 BPM. Max. pressure - 1100#. Treating pressure 500# to 1100# at 1 BPM. ISIP-1050#. On vacuum in 15 minutes. Unset Packer and went in after BP. Reset BP at 3495'. Spotted 300 gal., 15% Reg. over perforations from 3486' to 3490'. Set Packer at 3480'. Slowly worked to 500#. Feeding at 10 GPM from 500# to 0#. Increased to 1 BPM from 0# to 300#. Increased rate to 1.5 BPM from 300# to 1400#. ISIP-1200#. Four minutes - 400#. Ten minutes - 250#. Fifteen minutes - 150#. Released pressure and went after BP. Before we released Packer we had drift gas on the backside. Reset BP at 3478'. Spotted acid on perforations from 3469' to 3472' and backside began to kick off. Came up and set Packer at 3460'. Treated at 6 GPM from 300# to 700# and slowly walked to 1100# and broke back to 910#. Increased to 10 GPM and went back and forth from 1350# to 950#. ISIP-1100#. Five minutes - 300#, then it started climbing and in one minute it was at 500#. Thirty minutes - 880#. Hooked up blow line and opened valve. On slight vacuum. Rigged up tubing swab. Swabbed down to 1500' and well kicked off (4.5 Bbl. of load). Unloaded approximately 4 Bbls. with show of oil. Shut well in.
- 3-18-89 -- SIP-425#. Blew well down. Dead in three minutes. Ran in with swab and had 400' fillup. One Bbl., 50% oil. Ran back in and was dry. Show of gas TSTM. Reset BP at 3495'. Set Packer at 3480'. Ran in with swab and fluid was 1000' down. Ran swab three times and well kicked off. Gas and oil. Let well blow for 45 minutes. Ran in with swab and fluid was 2200' from surface. Approximately 2 Bbl. oil. Fifteen minute test - 1 Bbl. Put on gas test 3/8" plate - 70 MCF 45 minutes - 28 MCF. Ran swab - Approximately 1 1/2 Bbl. oil. After swab gauged 60 MCF/Day. Thirty minutes - 1 1/2 Bbl. oil. Gas seems to be depleting. Reset Packer at 3496'. Began swabbing well and backside was on vacuum. Bottom two zones communicated 3504' to 3508' and 3486' to 3490'. Reset Packer at 3480'. When released, Packer well went on vacuum. Swabbed well down and it had taken quite a bit of water. Shut well in.
- 3-19-89 -- Shut down.
- 3-20-89 -- SIP - 620#. Blew well down and began swabbing. Fluid was 3200' down. Made eight pulls to dry it up. 100% oil. Let set 1 hr. - 1.5 Bbl., 100% oil. Retreated with 1000 gal., 15% Regular. Loaded 14 Bbl. late. Treated at 5 BPM and went slowly to 1400# and ended up backing off to 1 BPM. Maximum pressure 1400#. Overflushed acid 15 Bbls. ISIP-1250#. Dropping off slowly 10 minutes on 0#. Let set 30 minutes and swab load back. Swabbed approx. 42 Bbls. of load. Fifteen minute test - .29 Bbl. oil; Second and Third fifteen minute tests dry.
- 3-21-89. -- Overnight fillup - 480'. Swabbed down in one pull-all oil. Made second run and was dry. Show of gas. Pulled tubing, Packer and BP. Perforated 3380' to 3384' and had a good show of gas. Perforated 3344' to 3348' and

3334' to 3338', all two holes per ft. Ran 4½" BP, 4½" Packer on 2 3/8" tubing. Set BP at 3402'. Set Packer at 3372'. Good show of gas. Ran swab and dried up hole. Released Packer and loaded hole. Spotted 500 gal., 15% Regular acid. Treat at maximum pressure of 1500#. Treated at 1 BPM at 1000# to 850# and finished at 900#. Had two or three small breaks getting to 1 BPM. ISIP-700#. Three minutes to 100#. Ten minutes on vacuum. Reset BP at 3372'. Set Packer at 3340'. Slowly pressured to 1600#. Seemed to be going in slowly. Backside went on slight vacuum. Ten minutes later we communicated. Moved Packer up to 3311' and reset. Treating both zones 3344' to 3350' and 3334' to 3338' with 1000 gal. 15% Regular. Treated first 12 Bbls. at 1 BPM at 1250# to 1150#. Shut well in.

- 3-22-89 -- Tubing on slight vacuum. Fluid 800' down. Swabbed on well for 3 hrs. Recovered approximately 20 Bbls. of water. Fair show of gas. Swabbed down to 450' of fluid per pull. (Perforations-3334' to 3338' and 3344' to 3350'). Released Packer and went down after BP. Reset BP at 3402' and Packer at 3370'. Backside kicked off and tubing tried to kick off. Ran swab to bottom three times and had a good show of gas. Released Packer and went down after BP. Set BP on bottom. Let Packer swing and began swabbing tubing. Backside got up to 340#. SI.
- 3-23-89 -- Tubing-760#; Casing-740#. Opened up well to unload. Unloaded for 1½ hrs. Put on test - 3/8" Plate 100 MCF at 20# and 300# on backside - increased to 340#. Changed plates and well kicked off. Began swabbing well with around 260# on casing. Hitting fluid at 2700'. Still have quite a bit of fluid to recover. Swabbed for 2 hrs. steady and pretty well dried it up. Put well on test with 240# on backside. Gas is dry. Thirty minutes- 83,200 CF/Day - 260# Casing; One hr. - 86,800 CF/Day - 260# Casing. Shut in.
- 3-24-89 -- 680# - Tubing; 640# - Casing. Blew well down for one hr.. Thirty minute test through 3/8" plate - 122,000 CF/Day. Casing went from 240# to 260#. Went down after BP and pulled BP up to 3120' and set. Pulled 2 3/8" tubing and 4½" Packer. Dumped 30 Bbl. water down hole. Perforated from 3020' to 3028' with two shots per ft. Ran 4½" Packer on 2 3/8" upset tubing. Spotted 750 gal., 15% Regular. Treated at 2 BPM from 550# to 950# and back to 900#. ISIP-600#. Ten minutes - 300#. Let set one hour. Opened valve and well kicked off for 1½ hrs. Backside open and on vacuum. Then after 1½ hrs. it started to blow. Ran in with swab and fluid was at 2000'. Swabbed well dry. Casing had 100# when well shut in.
- 3-25-89 -- Shut down.
- 3-26-89 -- Shut down.
- 3-27-89 -- Tubing - 720#; Casing - 700#. Blew well down to pit. Put on test with casing on 150#. Thirty minutes - 178 MCF and 200# on casing; sixty minutes 196 MCF and 200# on casing; ninety minutes - 217 MCF and 190# on casing; two hrs. - 217 MCF and 190# on casing. Loaded hole and killed well. Went down and retrieved bridge plug. Pulled 2 3/8" tubing, 4½" Packer and bridge plug. Ran 22 jts. of 2 3/8" tubing with seating nipple on bottom. Closed in head and hooked up tubing head. Closed well in. Shut down. Raining hard and wind blowing 40 to 50 MPH with lightning.

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CONSERVATION DIVISION

Wichita, Kansas

3-28-89 -- Tubing and Casing - 200#. Blew both sides down. Began running tubing. Ran about 40 jts. and well kicked off on us. Killed well with pump truck. Finished running tubing. Ran 112 jts. - 3466.53' of 2 3/8" tubing. Rigged up tubing swab and swabbed on well. Got to 500# on backside and well kicked off. Unloaded as much fluid as we could in 2 hrs. Gas was fairly dry. Shut well in. Tore down and moved off.

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CONSERVATION DIVISION  
Wichita, Kansas

1-2627, Russell, Kansas

15.165.21462-0000

Phone Plainville 913-434-2812

93-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO., INC.

No 4793

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	2-23	Sec	29	Twp	173	Range	16W	Called Out	1:30 P.M.	On Location	3:00 P.M.	Job Start	5:00 P.M.	Finish	5:30 P.M.	
Lease	Roth	Well No.	G #1	Location				Q15 3w 1/2s 1/4s NW 1/4 Rusk	County	Y	State	KS				
Contractor	Red Tiger Dng # 5												Owner	AFC Energy		
Type Job	Surface Pipe												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	12 1/4		T.D.		210 7'		Depth		210 4'		Charge To		Red Tiger Dng Co.			
Csg.	8 5/8		Depth				Street		1720 KSBET Bldg.							
Tbg. Size			Depth				City		Wichita		State		KS 67202			
Drill Pipe			Depth				The above was done to satisfaction and supervision of owner agent or contractor									
Tool			Depth				Purchase Order No.									
Cement Left in Csg.	15'		Shoe Joint				X Fred J. Reed Jr.									
Press Max.			Minimum				CEMENT									
Meas Line	✓		Displace		15.97 bbls		Amount Ordered				1100 sks 60/40 3/0 cc 2 1/2 gal					
Perf.													Consisting of			

### EQUIPMENT

Pumpjack #120	Cementeer	Steve Klipper
	Helper	Kenny Klipper
Pumpjack #120	Cementeer	T. Schenkel
	Helper	
Bulkcrk #108	Driver	
Bulkcrk	Driver	
DEPTH of Job	210 4'	
Reference	Pump Truck	360
	Milage	25
	Plug	40
	Sub Total	
	Tax	
	Total	425.00

Common	96	5.00	480.00
Poz. Mix	64	2.25	144.00
Gel.	3	6.75	20.25
Chloride	5	20.00	100.00
Quickset			
Handling	160	.90	144.00
Milage	25		126.00
Sub Total			1014.25
Tax			
Total			1014.25

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JUL 6 1990

CONSERVATION DIVISION  
Flooding Equipment

Thank You

Remarks: Cement Circulated when Plug was 150' deep.

TOTAL \$ 1439.25  
Less Disc - 287.85  
\$ 1151.40

83-2627, Russell, Kansas

KS 165-21462-0000

Phone Plainville 913-434-2812

793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

# ALLIED CEMENTING CO. INC.

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec	Twp	Range	Called Out	On Location	Job Start	Finish
5-25-89	29	17	16	4:50 pm	7:30 PM	12:00 AM	1:15 A.M.

Lease	Well No.	Location	County	State
Rothe	1	Otis 20 1/2 S 1 1/2 W NS	RUSH	KS

Contractor: **Red Tiger Drilling Co #5**  
 Owner: **Sim**

Type Job: **Production Casing**  
 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: **7 7/8" ID** TD: **3580'**  
 Charge To: **A.F.E. Energy**

Csg. Size: **2 1/2" ID** Depth: **579'**  
 Street: **Box 605**

Tbg. Size: **2 1/2" ID** Depth: **579'**  
 City: **Russell** State: **Ks 67665**

Drill Pipe: **2 1/2" ID** Depth: **579'**  
 The above was done to satisfaction and supervision of owner (agent or contractor).

Tool: **2 1/2" ID** Depth: **579'**  
 Cement/Life in Csg. **32.7'**  
 Purchase Order No. **175**

Press Max: **Minimum**  
 X **Gerry W. Pichler**

Meas Line: **55.90 BBL'S**  
 Perf: **Central 9 Basket**

Amount Ordered: **175 sks Com 10% salt**

Consisting of: **Common 1.75 5.00 875.00**

Poz. Mix: **SAH-17 4.75 80.75**

Chloride: **SAH-17 4.75 80.75**

Quicker: **SAH-17 4.75 80.75**

Handling: **1.75 90.00 157.50**

Mileage: **2.50 131.25**

Sub Total: **2634.50**

Less Disc: **526.90**

Total: **2107.60**

Floating Equipment: **1 1/2" Joint Shoe 104.00**

1 1/2" A.F.E. **167.00**

1 1/2" Basket **108.00**

3-4 1/2" Centralizers **123.00**

**496.00**

Remarks: **Floats hell 1000 for 5mins**

**Released Dry!**

L.P.P. Thank You!