

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

Operator: License # 5140
Name Frontier Oil Company
Address 125 N. Market, Ste. 1720
City/State/Zip Wichita, Kansas 67202

Purchaser N/A

Operator Contact Person Jean Angle
Phone 316-263-1201

Contractor: License # 5302
Name Red Tiger Drilling Co.

Wellsite Geologist Richard D. Parker
Phone 913-483-5348

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:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
2-14-89 2-21-89 2-22-89
Spud Date Date Reached TD Completion Date
3890 N/A
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 985 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 #

API NO. 15-145-21,290-0000
County Pawnee
NW SW SE Sec 22 Twp 21 Rge 16W East West

990 Ft North from Southeast Corner of Section
1650 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Lease Name Arnold "B" Well # 1

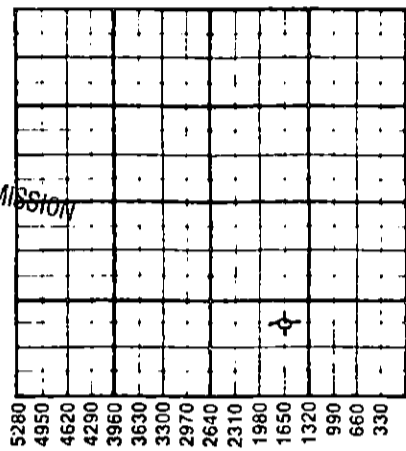
Field Name Larned

Producing Formation N/A

Elevation: Ground 1981 KB 1987

Section Plat

3-21-89
RECEIVED
STATE CORPORATION COMMISSION
MAR 21 1989
CONSERVATION DIVISION
Wichita, Kansas



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit # 89-63

Groundwater 1000 Ft North from Southeast Corner
(Well) 1600 Ft West from Southeast Corner of
Sec 22 Twp 21 Rge 16W East West

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 Jean Angle
Title Agent Date 3-17-89

Subscribed and sworn to before me this 17th day of March 1989
Notary Public D. Ann Drennan
Date Commission Expires 2-10-90

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)
3-21-89

See... Twp 21 Rge 16W

SIDE TWO

Operator Name Frontier Oil Company Lease Name Arnold "B" Well # 1

Sec. 22 Twp. 21 Rge. 16W East West County Pawnee

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. No log run

Drill Stem Tests Taken Yes No
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST #1 (3826-72) 30-30-15-30 1st op - wk blo
 2nd op - no blo. Rec. 5' M. IF & FF 21-21
 ISIP & FSIP 52

DST #2 (3826-3880) 30-30-15-30. 1st op - wk blo
 2nd op - wk blo for 7". Rec. 10' M
 IF & FF 52-52 ISIP 93 FSIP 72

DSI#3 (3826-87) 60-30-30-30. 1st op - wk blo
 inc. to fair blo. 2nd op - wk blo. Rec. 70' M
 IF 52-72 FF 72-72 ISIP 1136 FSIP 1125

DST#4 (3826-90) 60-30-60-30. 1st op - wk inc.
 to strong blo. 2nd op - wk inc. to strong blo.
 Rec. 900' MGSW IF 72-248 FF 310-455 ISIP 1105
 FSIP 1250

Name	Top	Bottom
Anhydrite	973	+ 1014
Heebner	3382	- 1395
Toronto	3401	- 1414
Brown Lime	3479	- 1492
Lansing	3491	- 1504
Base Kansas City	3745	- 1758
Viola	3762	- 1775
Arbuckle	3869	- 1882
RTD	3890	- 1903

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"	24 1/2	985	60-40 poz	375	2% gel, 3% CC

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
N/A			

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
N/A					

Date of First Production N/A Producing Method Flowing Pumping Gas Lift Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity
N/A					

METHOD OF COMPLETION Production Interval

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

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15.145.21290-0000

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

ALLIED CEMENTING CO., INC. No. 4792

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	2-22-89	Sec.	22	Twp.	21	Range	16W	Called Out		On Location	11:00am	Job Start	12:15pm	Finish	1:45pm
Lease	Arnold "B" Well No. 1			Location			Larned, 1/4 Sec 21, Twp 21, Range 16W			County	Pawnee		State	KS	
Contractor	Red Tiger #4			Owner			Same			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.					
Type Job	Rotary Plus			Charge To			Frontier Oil Co.			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	7 7/8			T.D.			3890			Street					
Csg.				Depth						1437 N. Franklin					
Tbg. Size				Depth						City					
Drill Pipe	4 1/2 X			Depth						Russell					
Tool				Shoe Joint						State					
Cement Left in Csg.				Minimum						KS 67665					
Press Max.				Displace			✓			The above was done to satisfaction and supervision of owner agent or contractor					
Meas Line				Purchase Order No.						X W.C. Ogle					
Perf.				CEMENT											

EQUIPMENT

# No.	Cementer	Allen
Pumptrk 120	Helper	Tray
No.	Cementer	
Pumptrk	Helper	
# 68	Driver	Jack S
Bulktrk	Driver	

DEPTH of Job

Reference:	Pump trk Chgs	360.00
	Pump trk milage	22.00
	1 8 5/8 Plus	20.00
	Sub Total	
	Tax	
	Total	402.00

Remarks: 50sx @ 1000'
 40sx @ 500'
 10sx @ 40'
 15sx - Rathole

Thank You!

Amount Ordered	115sx 5/40 67ge1		
Consisting of			
Common	69	5.00	345.00
Poz. Mix	46	2.25	103.50
Gel.	7	6.75	47.25
Chloride			
Quickset			
		Sales Tax	
Handling	115	.90	103.50
Mileage	22		75.90
		Sub Total	
		Total	675.15

Floating Equipment

Total \$ 1077.15
 Less Disc - 215.43
 \$ 861.72

RECEIVED
 STATE CORPORATION COMMISSION
 SEP 21 1990

Phone 918-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15.45.21290-0000

53426
 Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No 4786

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	7-15-89	Sec.	22	Twp.	21	Range	14	Called Out	2:00am	On Location	4:00am	Job Start	7:30am	Finish	8:30am
Lease	Arndt	Well No.	1-B			Location			Larned, NE, N Loc.	County	Polk	State	KS		
Contractor	Red Tiger #11														
Type Job	Surface														
Hole Size	12 1/4		T.D. 985												
Csg.	2416 8 5/8		Depth 978 978												
Tbg. Size	Depth														
Drill Pipe	Depth														
Tool	Depth														
Cement Left in Csg.	20'		Shoe Joint												
Press Max.	Minimum														
Meas Line	V965		Displace ✓												
Perf.															

Owner Same
 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.

Charge To Frontier Oil Co.
 Street 1437 N. Franklin
 City Russell State Ks 67665
 The above was done to satisfaction and supervision of owner agent or contractor

Purchase Order No.
 X W.C. Ogle
CEMENT

Amount Ordered	375 60/40 3 & 2	
Consisting of		
Common	225	5.00 1125.00
Poz. Mix	150	2.25 337.50
Gel.	8	6.75 54.00
Chloride	11	20.00 220.00
Quickset		

EQUIPMENT

#	No.	Cementer	Allen
Pumptrk	63	Helper	
	No.	Cementer	Phil
Pumptrk		Helper	
#		Driver	Troy
Bulktrk	192		
Bulktrk		Driver	

DEPTH of Job	978'	
Reference:	Pump trk. Chrg	360.00
	Pump trk. Milage	22.00
	1 8 5/8" Plug	60.00
	678' @ .39	264.42
	Total	706.42

Remarks: Cement Did Circulate
 Plug was 300' down
 Thank You

Handling	375	.90	337.50
Milage	22		247.50
Sub Total			
Total			2321.50

Floating Equipment
 Total \$ 3027.92
 Less Disc - 605.58

STATE CORPORATION COMMISSION
 21 1990