

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION 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, KS 67202
Purchaser: N/A
Operator Contact Person: Jean Angle
Phone (316) 263-1201

Contractor: Name: RED TIGER DRILLING CO.
License: 5302
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.)

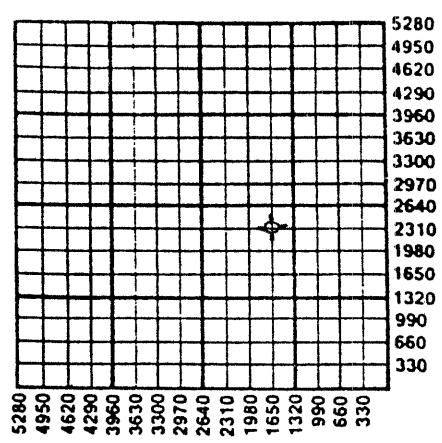
If **OWMO**: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
3-16-90 3-23-90 3-24-90
Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,085 0000
County Rooks
NE NW SE Sec. 20 Twp. 7 Rge. 19 East West
2310 Ft. North from Southeast Corner of Section
1650 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Jones "A" Well # 1
Field Name Grover West
Producing Formation N/A
Elevation: Ground 1965 KB 1970
Total Depth 3459' PBTD N/A

RECEIVED
STATE CORPORATION COMMISSION
Wichita, Kansas

APR 10 1990
4/16/90
CONSERVATION DIVISION
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 225 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ 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 Jean Angle
Title Agent Date 4-3-90

Subscribed and sworn to before me this 3rd day of April, 19 90.

Notary Public D'Ann Brennan

Date Commission Expires 4
D'ANN BRENNAN
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp. _____

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

ORIGINAL



SIDE TWO

Operator Name FRONTIER OIL COMPANY Lease Name Jones "A" Well # 1
 Sec. 20 Twp. 7 Rge. 19 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <p style="text-align: center;"><input type="checkbox"/> Log <input checked="" type="checkbox"/> Sample</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr><td>Anhydrite</td><td>1467</td><td>+503</td></tr> <tr><td>B/Anhydrite</td><td>1502</td><td>+468</td></tr> <tr><td>Topeka</td><td>2926</td><td>-956</td></tr> <tr><td>Heebner</td><td>3130</td><td>-1160</td></tr> <tr><td>Toronto</td><td>3154</td><td>-1184</td></tr> <tr><td>Lansing-KS City</td><td>3170</td><td>-1200</td></tr> <tr><td>Base KS City</td><td>3376</td><td>-1406</td></tr> <tr><td>Arbuckle</td><td>3428</td><td>-1458</td></tr> <tr><td>RTD</td><td>3459</td><td>-1489</td></tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	1467	+503	B/Anhydrite	1502	+468	Topeka	2926	-956	Heebner	3130	-1160	Toronto	3154	-1184	Lansing-KS City	3170	-1200	Base KS City	3376	-1406	Arbuckle	3428	-1458	RTD	3459	-1489
Name	Top	Bottom																													
Anhydrite	1467	+503																													
B/Anhydrite	1502	+468																													
Topeka	2926	-956																													
Heebner	3130	-1160																													
Toronto	3154	-1184																													
Lansing-KS City	3170	-1200																													
Base KS City	3376	-1406																													
Arbuckle	3428	-1458																													
RTD	3459	-1489																													

DST #1 (3316-3374)30-30-15-30. Rec. 4' M.
 IF 45-33, FF 33-45, ISIP 56, FSIP 67.
 DST #2 (3372-3434)60-30-60-30. Rec. 61' MCO
 (64% O, 36% M). IF 67-67, FF 78-90, ISIP
 544, FSIP 484.
 cont'd.

CASING RECORD <input type="checkbox"/> New <input 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"	19.66#	225	60-40 POZ	150	3%CC, 2%gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used) Depth			
N/A							
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
N/A	Size	Set At	Packer At				
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
N/A							
Estimated Production Per 24 Hours		Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas: N/A Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

Production Interval _____

ORIGINAL

OPERATOR FRONTIER OIL COMPANY LEASE NAME Jones "A" # 1 SEC. 20 TWP. 7 RGE. 19W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST #3 (3432-3439) 60-45-60-45. Rec. . . 10' Clean Oil, 50': MCO (55% O, 45% M) IF 22-22, FF 45-45, ISIP 461, FSIP 225.	15163230850000			
DST #4 (3372-3447) 60-45-15-45. Rec. 90' OCM (20% O, 80% M) IF 101-112, FF 123-123, ISIP 673, FSIP 673.				
DST #5 (3447-3459) 30-30-30-30. Rec. 690' MSW. IF 67-281, FF 326-450, ISIP 1117, FSIP 1117.				

ORIGINAL

RECEIVED
STATE COMMISSION

APR 10 1993

CONSERVATION DIVISION
Wichita, Kansas



15162-03088
0000

ORIGINAL

ORIGINAL

INVOICE DATE
03/16/90

DIRECT BILLING/INQUIRIES TO	TERMS	SHIP TO
713-895-5821	NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212

PAGE	INVOICE NO.
1	QX070

FRONTIER OIL
125 NORTH MARKET
WICHITA,

KS 67601

AUTHORIZED BY
627430

PURCH ORDER REF NO.

WELL NUMBER : A-1

CUSTOMER NUMBER : 11348002

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	DISTRICT NAME	DISTR. NO.
JONES	15		HAYES	3370
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
LOCUST GROVE		03/16/90	LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10102103	1.00	CEMENTING THRU TUBING 0 TO 300 FT	375.00		375.00
10109005	52.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		57.20
10410504	90.00	CLASS "A" CEMENT	5.30	CF	477.00
10415018	60.00	DIAMIX F	2.61	CF	156.60
10415049	387.00	A-7-P CALCIUM CHLORIDE PELLETS	0.33	LB	127.71
10420145	2.58	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	17.42
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	17.00	EA	17.00
10880085	150.00	MIXING CUSTOMERS MATERIALS, PER CUB	0.95		142.50
10940101	176.80	DRAYAGE, PER TON MILE	0.70		123.76
SUBTOTAL					1,494.19
DISCOUNT					343.67

ACCOUNT	4.25000% STATE TAX	1150.52	48.89
	BATCH # 0320 DUE DATE 4/6		
	A/C CODES 113.500		
	PAID CK. # _____ DATE _____		

APR 19 1990
Wichita, Kansas



ORIGINAL

ORIGINAL

INVOICE DATE
03/24/90

DIRECT BILLING INQUIRIES TO 713-395-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	SHIP TO B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
---	--	--

PAGE 1	INVOICE NO. Q4156
-----------	----------------------

FRONTIER OIL
125 NORTH MARKET
WICHITA,

KS 67601

AUTHORIZED BY
627409

PURCH ORDER REF. NO.

WELL NUMBER : A-1

CUSTOMER NUMBER : 11348002

1516323085

LEASE NAME AND NUMBER JONES	STATE 15	COUNTY/PARISH	CITY	DISTRICT NAME HAYES	DISTR. NO. 3370
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF INV. 03/24/90	TYPE OF SERVICE LAND-PLUG AND ABANDON	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	D/M	EXTENDED PRICE
10100303	1.00	CEMENTING CASING 0 TO 300 FT.	375.00		375.00
10109009	50.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		55.00
10410504	123.00	CLASS "A" CEMENT	5.30	CF	651.90
10415018	82.00	DIAMIX F	2.61	CF	214.02
10420145	10.58	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CW	71.42
10422009	25.00	CELLO FLAKE,	1.27	GL	31.75
10430539	1.00	8 5/8" TOP HOLE (SURFACE) PLUG	12.00	EA	12.00
10880085	205.00	MIXING CUSTOMERS MATERIALS, PER CUB	0.95		194.75
10940101	235.00	DRAYAGE, PER TON MILE	0.70		164.50
SUBTOTAL					1,770.34
DISCOUNT					407.18

RECEIVED APR 4 1990

ACCOUNT	4.25000% STATE TAX	1363.16	57.92
BATCH # <u>0318</u> DUE DATE <u>4/13</u> A/C CODES <u>113.500</u> <u>APR 19 1990</u> PAID CK. # _____ DATE _____			

TAX EXEMPTION STATUS:

Wichita, Kansas

PAY THIS AMOUNT

1,421.00