

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

API NO. 15- 163-23247-0000

ORIGINAL

County Rooks

-NE -NW -SE Sec. 34 Twp. 6S Rge. 20 X ^E/_W

Operator: License # 5140

Name: Frontier Oil Company

Address 125 North Market
Suite 1720

City/State/Zip Wichita, KS 67202

Purchaser: _____

Operator Contact Person: Jean Hollar

Phone (316) 263-1201

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Richard D. Parker

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW 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 PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

9-8-94 9-15-94 10-11-94
Spud Date Date Reached TD Completion Date

2310 Feet from (S) N (circle one) Line of Section

1650 Feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, (SE) NW or SW (circle one)

Lease Name Vose Well # 1

Field Name DGH (Ext.)

Producing Formation Lansing - Kansas City

Elevation: Ground 2204 KB 2209

Total Depth 3693' PBTB _____

Amount of Surface Pipe Set and Cemented at 268' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1823' Feet

If Alternate II completion, cement circulated from 1823'

feet depth to surface w/ 250 sx cmt.

Drilling Fluid Management Plan ALT 2 24 9-21-95
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 410 bbls

Dewatering method used Water Truck

Location of fluid disposal if needed (ft):

RELEASED

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. FROM CONFIDENTIAL ^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 Jean Angele

Title Agent Date 11-22-94

Subscribed and sworn to before me this 22 day of November, 19 94.

Notary Public Jean Sheeran

Date Commission Expires 5-5-98

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)
RECEIVED		
STATE CORPORATION COMMISSION		



Form ACO-1 (7-81) **NOV 30 1994**
11-30-94
CONSERVATION DIVISION
WICHITA, KANSAS

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SIDE TWO

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Operator Name Frontier Oil Company

Lease Name Vose Well # 1

Sec. 34 Twp. 6S 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datums	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1788	+ 421
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3193	- 984
List All E.Logs Run:		Heebner	3396	-1187
		Toronto	3419	-1210
		Lansing-Kansas City	3432	-1223
		Base of Kansas City	3638	-1429
		Arbuckle	3675	-1466
		RTD	3593	-1484

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" (new & used)	20#	268'	60-40 poz	160	2% gel, 3% cc
Production		4 1/2" (used)	10 1/2#	3678'	Common	185	10% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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	Depth
	4 1/2" Cast drillable plug		3660
4	3622 to 3629	1500 gal. 15% HCL	3622-29
2	3432 to 3438	1000 gal. 15% HCL	3432-38
2	3418 to 3422	1000 gal. 15% HCL	3418-22

TUBING RECORD	Size <u>2 3/8"</u>	Set At <u>3649'</u>	Packer At <u>None</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. <u>10-13-94</u>	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil <u>30</u> Bbls. BOPD	Gas <u>N/A</u> Mcf	Water <u>60</u> Bbls. BOPD	Gas-Oil Ratio <u>N/A</u>	Gravity <u>35°</u>
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: Other (Specify) _____

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DRAIL STEM TEST NO. 1 (TRILOBITE TESTING)

3394 to 3440

60-45-60-45

First open fair blow to bottom of bucket in 36 minutes. Second open fair blow to 7" in bucket. Recovered 174' Gas in Pipe, 418' total fluid consisting of 62' heavy oil cut mud, 124' heavy mud cut oil, 233' heavy mud and gas cut oil. Initial flows 29 to 118#. Final flows 127 to 100. 45 minute initial shut in pressure 788#. 45 minute final shut in pressure 758#.

3470 to 3478

Tan fossiliferous lime with fair pin point to fossiliferous porosity. Some rainbow film free oil, good odor, and fair spotted

DRILL STEM TEST NO. 2 (TRILOBITE TESTING)

3454 to 3484

30-45-30-45

First open well blow
1 1/2" in bucket.

Second open well
surface blow.

Recovered 120' mud
with few spots of oil.

Initial flows 19" to 39"

Final flows 49" to 68"

Initial shut in pressure 956"

Final shut in pressure 926"

3486 to 3492

white fine crystalline
to fossiliferous lime
with a trace of free oil
No odor, fair spotted light
stem. (Included in DST #3)

3506 to 3510

white oolitic to fossiliferous
lime with traces of free
oil, traces spotted stem
and a fair odor.
(Included in DST #3)

DRILL STEM TEST NO. 3 (TRILOBITE TESTING)

3455 to 3522

30-30-30-30

FIRST OPEN WEAK 1"
blow IN BUCKET.

SECOND OPEN WEAK
SURFACE BLOW. RECOVERED
120' mud. Initial flows
39 to 78 Final flows
78 to 98. Initial shut
in pressure 936 #.
Final shut in pressure 917

3531 to 3538

White dense to cherty
lime with no show.

3562 to 3568

White fine crystalline
to cherty lime with
no show of oil.

3585 to 3591

Ten fine crystalline

3600 to 3606

Thin fine crystalline to fossiliferous lime with fair vuggy porosity, traces of free oil, faint odor. Fair light stain in the fine crystalline lime.

DRAIL STEM TEST NO. 4 (TRILOBITE TESTING)

3574 to 3612

30-45-30-45

First open work surface blow. Second open no blow
Recovered 30' mud and gas cat oil, 2590 gas, 5590 oil, 2090 mud.
Initial flows 19 to 19
Final flows 19 to 19
Initial shut in pressure 561.
Final shut in pressure 462.

3618 to 3628

Thin fine cryst. lime to fossiliferous vuggy lime with fair vuggy porosity. Traces of free oil, Fair odor, Spotted oil stain.

DRILL STEM TEST NO. 5 (TRILOBITE TEST)
3610 to 3612

60-45-60-45

First open good blow
to bottom of bucket in
35 minutes. Second
open fair blow to 10"
in bucket. Recovered
370' Gas in pipe, 468'
fluid consisting of 180'
clean gassy oil / 1090 gas
90% oil, 228' oil / cat
gassy mud 2090 gas,
3090 oil 50% mud.
Initial flows 29 to 108 #
Final flows 118 to 177.
INITIAL SHUT IN PRESSURE 739 #
FINAL SHUT IN PRESSURE 709 #.

ARBUCLE (Top 3675)

3675 to 3693

White medium
crystalline dolomite
with fair intercrystalline
porosity. Fair show
of free oil, good
spotted stem. Fair odor

DRILL STEM TEST NO. 6 (TRILOBITE)

3678 to 3693

60-45-30-45

FIRST OPEN WREAK
4" IN BUCKET.

SECOND OPEN WREAK
SURFACE BLOW.

RECOVERED 70' CLEAN OIL.

INITIAL FLOWS 19 TO 59

FINAL FLOWS 49 TO 49

INITIAL SHUT IN PRESSURE
265 #.

FINAL SHUT IN PRESSURE
206 #.

4 1/2" CASING WAS SET AT 3678'
3' IN THE PARBUCKLE AN 15' OFF BOTTOM
WITH 185 SACKS COMMON CEMENT
1090 ADDED SALT. THE SHOE JOINT
IS 9.90' LONG. A BAKER PORT COLLAR
IS SET AT 1823 A BASKET SET AT
1873'.

SINCERELY,

[Handwritten Signature]

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

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

6675

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

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ORIGINAL

New

Date	9-16-94	Sec.	34	Twp.	6	Range	20	Called Out	4:45 AM	On Location	9:00 AM	Job Start	1:00 P.M.	Finish	2:00 P.M.
Lease	Vase	Well No.	1	Location	Richardson - 2E-31N-1E-31N-2E			County	Rock	State	KS.				

Contractor	Murphy		
Type Job	Long String		
Hole Size	9 3/8"	T.D.	3693
Csg.	4 1/2"	Depth	3678'
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool	Port Collar	Depth	1823'
Cement Left in Csg.		Shoe Joint	9'90"
Press Max.		Minimum	
Meas Line	3683'	Displace	
Perf.			

EQUIPMENT

Pumptrk	No.	Cementer	Mike Maier Ron Davis
	221	Helper	
Pumptrk	No.	Cementer	Bill White
		Helper	
Bulktrk	116	Driver	
		Driver	

DEPTH of Job		3678'
Reference:		
28	Pump Job Chg	980.00
	Pump Job Mileage	63.00
	4 1/2" Rubber Plug	33.00
	Sub Total	
	Fee	
	Total	1076.00

Remarks: Ran 3686' of used 4 1/2" casing - broke
 one with mud pump - Mixed 200 SKs Comm
 10% Salt - Displaced with fresh water & ran
 Measure line also - float did hold
 Thank you - Allied Cementing

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 Company
Street	125 N. Market Suite 1720
City	Wichita State Mo. 67202
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>[Signature]</i>

CEMENT

Amount Ordered	200 SKs Comm 10% Salt	
Consisting of		
Common	200	RELEASED 5.75 1150.00
Poz. Mix		
Gel.		
Chloride		JAN 17 1996
Quickset		
	Salt	FROM CONFIDENTIAL 133.00
		Sales Tax
Handling	200	1.00 200.00
Mileage	28	224.00
	Total \$	4576.00
	Disc -	915.20
	<u>\$</u>	3660.80
	Total	1707.00

Floating Equipment	
1- 4 1/2" - Baker Port Collar	- 1680.00
1- 4 1/2" - Basket	- 113.00
	\$ 1793.00

RECEIVED
 STATE CORPORATION COMMISSION

NOV 30 1994

CONSERVATION DIVISION
 WICHITA, KANSAS

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

Phone 913-625-5516, Hays, KS
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ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

CONFIDENTIAL

ORIGINAL 777A

New

Date	10-8-94	Sec.	34	Fwp.	6 S	Range	20 W	Called Out	5:00 AM	On Location	8:30 AM	Job Start	9:30 AM	Finish	11:00 AM
Lease	VOSE	Well No.	#1	Location	OLD 24 & LOGAN RD	County	ROCKS	State	KANSAS						
Contractor	LEON'S D&G SERVICE #1														
Type Job	OPEN PORT COLLAR (CIRC. CEMENT)														
Hole Size	4 1/2														
Csg.	2'														
Tbg. Size	2"														
Drill Pipe	RAM D&G TOOLS														
Tool	BAXER PORT COLLAR														
Cement Left in Csg.	1,000 #														
Press Max.	750 #														
Meas Line	RELEASED														
Perf.															

Owner 3 N 2 F 1/2 N 1/2 W

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 COMPANY
 Street 137 N. Franklin
 City Russell State Kansas

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. [Signature]

X [Signature]

CEMENT

JAN 7 1996

EQUIPMENT

No.	Cementer	
Pumptrk # 177	Helper	[Signature]
No.	Cementer	
Pumptrk	Helper	
Bulktrk # 254	Driver	Paul
Bulktrk	Driver	

Amount Ordered	250 SK	5% 50	6.2 GEL	1/2" FIO-SEAL	4 PER SK
Consisting of	Common 125 @ 5.75 = 718.75				
	Poz. Mix 125 @ 3.00 = 375.00				
	Gel. 3 @ 9.00 = 27.00				
	Chloride				
	Quickset				
	3/8" Seal 3 @ 27.50 = 82.50				
	Sales Tax				
Handling	@ 1.00 = 250.00				
Mileage	42 / Sk / Mile = 350.00				
	35				
	Sub Total				
	Total 1893.25				

DEPTH of Job

Reference:	Pump Truck CARG	525.00
	225 Per Mile	78.75
	Sub Total	
	Tax	
	Total	603.75

Remarks: Perm. B. Plug @ 3370' TUBING @ 1697' - TEST PLUG TO 1000#
 (HOLD) Pulled up to 1694' & PRESSURED UP TO 250#, OPENED PORT COLLAR, + HAD
 GOOD CIRCULATION, MIXED APPROX 250 SK CEMENT, CEMENT CIRCULATED TO
 SURFACE, DISPLACED 5 1/2 BBL, CLOSED PORT COLLAR & PRESSURED UP TO 750# + (HOLD)
 RAM BITS & WASHED CLEAN. CAME OUT W/ TUBING, PUT 4 1/2 SWAGE ON LOGAN RD
 (DENNIS HAMMEL STATE. REP.)

RECEIVED TO STATE CORPORATE TAX COMMISSION NOV 3 1994 4:54 PM WICHITA, KANSAS