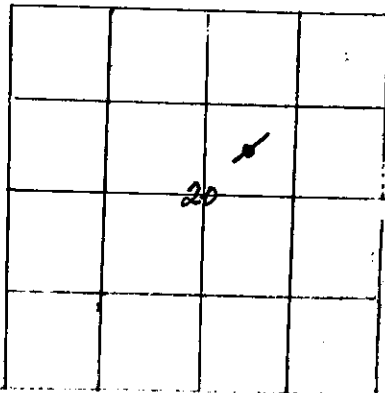


WELL PLUGGING RECORD

Give All Information Completely
 Make Required Affidavit

COUNTY Rush SEC. 20 TWP. 17S RGE. 17W E/W
 Location as in quarters or footage from lines:
C SW NE



Lease Owner Frontier Oil Co.
 Lease Name Appl "A" Well No. 1
 Office Address 1720 Kansas St. Bk. Bldg., Wichita, Ks. 67202
 Character of Well (Completed as Oil, Gas or Dry Hole): Gas
 Date Well Completed 8-20-1982
 Application for plugging filed 1-10-83
 Plugging commenced 1-13-83
 Plugging completed 1-13-1983
 Reason for abandonment of well or producing formation Depleted

Locate Well
 correctly on above
 Section Platt.

Was permission obtained from the Conservation Division or it's
 Agent's before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Robert Tarbutton
 Producing formation Topeka Depth to top 3029' bottom T.D. 3618'
 Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

Casing Record

Formation	Content	From	To	Size	Put in	Pulled Out
	500 sax	0'	1132'	8 5/8"	7-28-1982	Still in hole
	275 sax	0'	3611'	4 1/2"	8-9-1982	Still in hole

Describe in detail the manner in which the well was plugged, indicating where the mud
 fluid was placed and the method or methods used in introducing it into the hold. If cement
 or other plugs were used, state the character of same and depth placed, from feet
 to feet for each plug set. Allied Cementing, Russell, plugged well with pump truck.
 The following are the plugging materials used, starting with what was put in the hole first:

Pumped	3 sax Hulls	-----	approx.	2550'	---out in formation
	25 sax 50-50 Pozmix cement, 4%Gel, 3% C.C.	-----	approx.	2100'	---2550'
	10 sax Gel	-----	approx.	900'	---2100'
	4 1/2" Plug	-----	approx.	900'	---900'
	50 sax 50-50 Pozmix cement, 4%Gel, 3% C.C.	-----	approx.	0'	---900'

Maximum pressure 1000#; Shut-in pressure 400#

Pumped 15 sax 50-50 pozmix, 4%Gel, 3% C.C. down back side before pressuring up.

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor Allied Cementing, Russell, Ks. 67665

STATE OF Kansas COUNTY OF Sedgwick, ss.

Jean Stocks (employee of owner) ~~or (owner or operator)~~ of the
 above-described well, being first duly sworn on oath, says: That I have knowledge of the
 facts, statements, and matters herein contained and the log of the above-described well as
 filed and that the same are true and correct. So help me God.

(Signature) Jean Stocks
1720 Ks St Bank Bldg., Wichita, Ks 67202
 (Address)

SUBSCRIBED AND SWORN TO before me this 25th day of January, 1983

Sally Andrews
 STATE CORPORATION COMMISSION
 Notary Public.

My Commission expires:



JAN 28 1983

CONSERVATION DIVISION
 Wichita, Kansas

FILL IN WELL LOG AS REQUIRED:

Show all important pieces of property and contents thereof; record intervals, and all other items, 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
			ANHY (top)	1112 (- 938)
			(Base)	1160 (+ 890)
Sod-Gray Shale w/Lime	0	350	HER	1943 (+ 107)
Shale	350	528	WINF	1981 (+ 69)
Sand	528	755	FT. FILEY	2139 (- 89)
Shale & Red Bed	755	1000	BASE FLOR	2227 (- 177)
Red Bed	1000	1112	WREF	2273 (- 223)
Anhydrite	1112	1160	CROUSE	2318 (- 268)
Red Bed & Shale	1160	1640	BAD	2344 (- 294)
Shale	1640	1852	COTINW	2385 (- 335)
Lime w/Shale	1852	1894	NEVA	2449 (- 399)
Lime	1894	2015	PED EAGLE	2521 (- 471)
Lime-Shale-Sand	2015	2060	WAB	2641 (- 591)
Lime	2060	2625	BROWNIE	2679 (- 629)
Lime w/Shales	2625	2845	TARK	2784 (- 734)
Lime	2845	2900	HOW	2969 (- 919)
Lime & Shale	2900	3035	TOP	3029 (- 979)
Lime	3035	3560	HEEB	3272 (-1222)
Granite	3560	3612	TOR	3289 (-1239)
Granite Wash	3612	3618	LANS	3326 (-1276)
RTD		3618	BASE KC	3537 (-1487)
			GRAN WASH	3591 (-1541)
			RTD	3618 (-1568)
			4 1/2"	3611 (-1561)
DST #1	1929	2060		
60-30-60-30. 1st opn blo off btm in 3". 2nd opn blo off btm throughout. Rec-365' MW, 130' WM, 240' SGCWM, IF 104-373, FF 373-477 ISIP 570, FSIP 560.				
DST #2	2350	2470		
30-30-30-30. Fair stdy blo both opns. Rec. 130' M. IF 82-104. FF 103-145. ISI 745. FSI 725.				

Report of all strings set - surface, intermediate, production, etc. CASING RECORD (New) or (Used)

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs./ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/2"	8-5/8"	23#	1123.84'	Pox mix	500 sx	2% Gel., 3% C.C.
Production	7-7/8"	12 1/2"	10.5#	3611'	Common	275 sx	10% Salt

LINER RECORD

Top, ft.	Bottom, ft.	Cement

PERFORATION RECORD

Shots per ft.	Size & type DP's	Depth interval
4	DP's	3028'-3034'

TUBING RECORD

Size	Setting depth	Packers set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gal., 15% Reg. acid	3028'-3034'

Date of first production	Producing method (Flowing, pumping, gas lift, etc.)	Gravity

DATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Overall ratio
			%	

Perforations	3028'-3034'

OPERATOR Frontier Oil Company LEASE NAME #1 Appl "A" SEC. 20 TWP. 17S RGE. 47W

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 60-30-60-30. 1st opn blo off btm in 5". 2nd opn blo off btm immediately. Rec 870' fluid; 245' M; 180' SGCM; 240' GCM; 185' GCWM. IF not readable to 415. FF 415-570. ISI and FSI both 839. (plugging action first opn.)	2459	2590		
DST #4 30-30-30-30. Wk blo both opns. Rec 65' M. All flow pressures not readable. ISI 745. FSI 704. (Severe plugging action, due to low structural position and poor condition of hole it was decided not to retest)	2682	2845		
DST #5 30-30-60-30. Gas to surface in 30" to small to measure. Rec. 60' GCM, 120' GCWM. IF 41-62. FF 62-104. ISI 900. FSI 797.	3010	3050		
DST #6 60-30-60-30. Blo off btm of bucket both opns. Rec. 1700' SW. IF 155-591. FF 591-745. ISI and FSI both 1096.	3197	3260		
DST #7 60-30-30-30. 1st and 2nd opn both wk blo. Rec. 30' M. IF 73-103. FF 103-103. ISI and FSI both 155.	3268	3390		
DST #8 60-30-30-30. 1st opn wk blo. 2nd opn wk blo for 8". Rec 90' M. IF 72-134. FF 134-155. ISI and FSI both 1096.	3382	3480		
DST #9 60-30-60-30. 1st opn gd blo decreasing to fair blo. 2nd opn wk blo. Rec 85' M. IF 135-135. FF 135-135. ISI 539. No FSI recorded.	3476	3560		
DST #10 30-30-30-30. 1st opn wk blo. 2nd opn no blo, flush tool wk blo for 5'. Rec 10' M. IF 61-70. FF 79-79. ISI 105. FSI 88.	3534	3618		