

SIDE TWO

OPERATOR **Frontier Oil Company**

LEASE **Lewis**

ACO-1 WELL HISTORY
SEC. 9 TWP. 10S RGE. 21W
Graham County, Ks

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
Shale, Rock & Hard Sand	0	40	Anhydrite	1741(+ 507
Rock & Shale	40	290	Brownville Lm	3005(- 757
Shale	290	590	Tarkio	3093(- 845
Shale & Sand	590	1500	Howard	3206(- 958
Shale	1500	1741	Topeka	3259(-1011
Anhydrite	1741	1791	Heebner	3463(-1215
Shale	1791	2368	Toronto	3487(-1239
Shale & Lime	2368	2851	Lansing-KC	3504(-1256
Lime & Shale	2851	2988	BKC	3730(-1482
Lime	2988	3838	Marmaton	3776(-1528
RTD		3838	Ch Cong	3788(-1540
			Simpson Shale	3821(-1573
			Simpson Dolo	3823(-1575
			Arbuckle	3835(-1587
			RTD	3838(-1590
			4 1/2"	3837(-1589

Report of all strings set — surface, intermediate, production, etc. **CASING RECORD** (New) ~~XXXXXX~~

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 1/4"	8 5/8"	24#	287	Common	180	2% Gel/3% cc
Production	7 7/8"	4 1/2"	10 1/2#	3837	Common	250	10% Salt
DV Tool	7 7/8"	4 1/2"	10 1/2#	1761	Common	550	5% Gel

LINER RECORD

PERFORATION RECORD

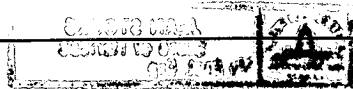
Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4	DPs	3542-3550
			4	DPs	3419-3420) All these
			4	DPs	3675-3684) Pfs sqzd
			4	DPs	3709-3720) off

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8"	3688	n/a

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 Gal 15% Regular	3542-3550



Date of first production	Producing method (flowing, pumping, gas lift, etc.)	Gravity
8-8-81	pumping	

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	40 bbls.	-0- MCF	1 %	1 bbls. -0- CFPB

Disposition of gas (vented, used on lease or sold)	Perforations
n/a	3542-3550 - only pfs open