



SIDE TWO

Operator Name A. Scott Ritchie Lease Name Cartmill Well# 2 SEC. 22 TWP. 17S RGE. 28  East  West

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.

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

Formation Description  
 Log  Sample

DST #1 from 3900' to 3974' (Toronto & Top zone)  
 Recovered 1040' of muddy water. IFP:143-363#/  
 30"; ISIP:1202#/30"; FFP:430-583#/30";  
 FSIP:1202#/30".

DST #2 from 4025' to 4052' (70' zone). Re-  
 covered 70' of slightly oil cut muddy water.  
 IFP:66-77#/30"; ISIP:1191#/30";  
 FFP:88-99#/30"; FSIP:1180#/30".

DST #3 from 4113' to 4218' (140', 160', 180'  
 zones). Recovered 65' of slightly oil spotted  
 mud. IFP:121-121#/30"; ISIP:1017#/45";  
 FFP:121-121#/30"; FSIP:952#/45".

DST #4 from 4324' to 4396' (straddle packer -  
 Pawnee). Recovered 180' of oil cut mud, 240'  
 of heavily oil cut gassy mud.  
 IFP:143-176#/30"; ISIP:1061#/45";  
 FFP:253-275#/30"; FSIP:1007#/45".

Name	Top	Bottom
Anhydrite	2120'	(+ 636)
B/Anhydrite	2151'	(+ 605)
Heebner	3926'	(-1170)
Toronto	3938'	(-1182)
Lansing	3962'	(-1206)
Stark Sh.	4218'	(-1462)
B/KC	4298'	(-1542)
Marmaton	4324'	(-1568)
Pawnee	4414'	(-1658)
Myrick Sta.	4440'	(-1684)
Ft. Scott	4470'	(-1714)
Cher. Sh.	4492'	(-1736)
Johnson zone	4532'	(-1776)
Mississippi	4561'	(-1805)
LTD	4624'	(-1868)

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"	23#	343'	quickset	200	none
Production	7-7/8"	4 1/2"	10.5#	4602'	60/40 pozmix	200	40 bbls. of brine salt flush & 10% salt.

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
2 SSB	4383' to 4386'	Acidized w/1000 gal. of 28% MCA with 5 gal./1000 clay stabilizer and 5 gal./1000 silt suspenders.	4383'-86

TUBING RECORD

size set at packer at Liner Run  Yes  No

Date of First Production	Producing method	Oil	Gas	Water	Gas-Oil Ratio	Gravity
3/8/85-5/4/85	<input type="checkbox"/> flowing <input checked="" type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

PRODUCTION INTERVAL

Disposition of gas:  vented  sold  used on lease

open hole  perforation  other (specify)

Dually Completed.  Commingled