

Operator Name Marathon Oil Company Lease Name Garrison A Well # 4
 Sec. 12 Twp. 16S Rge. 43 East County Greeley
 West

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 checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral	2768'
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Neva	3498'
		Wabaunsee	3703'
List All E.Logs Run:		Topeka	3932'
		Lansing	4262'
		Marmaton	4658'
		Cherokee	4770'
		Atoka	4900'
		Morrow	5070'
		Mississippian	5263'

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"	24#	733'	Class 'H'	430	3% CaCl ₃
Production	7-7/8"	4-1/2"	10.5#	5340'	50-50 Poz	272	10% Salt
							2% Gel, 3/4%

ADDITIONAL CEMENTING/SQUEEZE RECORD

CFR-2

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
X Protect Casing	1000'-1800'	Light	150	No additives
Plug Back TD				
Plug Off Zone	Surf.-1000'	Light	180	No additives

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)	
4 SPF	5232'-5264' (Keyes Sand Cross Flow Test Only)			Depth Class Squeezed to 1500 psi w/25 sxs "A"	

TUBING RECORD		Size 2-3/8"	Set At 5132'	Packer At 5132'	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 10/10/94 Test		Producing Method				<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Test <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil ---	Bbls.	Gas ---	Mcf	Water TDS of Keyes Water is 5953/mg/l	Gas-Oil Ratio Gravity

Disposition of Gas:	METHOD OF COMPLETION			Production-Interval		
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole	<input type="checkbox"/> Perf.	<input type="checkbox"/> Dually Comp.	<input type="checkbox"/> Commingled		
<input checked="" type="checkbox"/> Other (Specify) <u>Squeezed Keyes perforation</u>						
Returned well to Morrow Injection						