



SIDE TWO

Operator Name ..... National Cooperative Refinery Association ..... Heaten ..... Well # ..... 9

Sec. .... 17 ..... Twp. .... 22S ..... Rge. .... 12 .....  East  West ..... County. .... Stafford

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 3380-3400' KC "H" Zone 15-30-60-120  
 IHP 1703# IFP 20-20# ISIP 20# FFP 20-20#  
 FSIP 20-20# FHP 1641# BHT 107°. Rec. 1' drlg. mud - show of oil.  
 DST #2 3480-3503' Conglomerate 15-30-60-120  
 IHP 1744# IFP 2020# ISIP 31# FFP 20-20# FSIP 31# FHP 1740# Rec. 5' drlg. mud - 1% oil.  
 Ran DST #3 3594-3610' Arbuckle formation  
 Pkr failure  
 Ran DST #4 3602-3610' Arbuckle formation  
 Misrun Rec. 60' mud w/few specks of oil - partial pkr. failure.  
 DST #5 3605-3620' Arbuckle formation 15-30-60-120 Very weak blow for 15 mins. preflow. Dead rest of test. IHP 1848# IFP 83-83# ISIP 177# FFP 104-135# FSIP 145# FHP 1827# BHT 113°. Rec. 5' drlg. mud w/few specks of oil.  
 Ran DST #6 3610-1650' Arbuckle formation 15-30-60-120 Weak blow for 25 mins. IHP 1807# IFP 52-52# ISIP 166# FFP 113°. Rec. 10' drlg. mud - trace of oil.

Name	Top	Bottom
Anhydrite	670'	
Heebner	3116'	
Toronto	3136'	
Brown Lime	3248'	
L-KC	3260'	
Conglomerate	3482'	
Simpson Sand	3590'	
Arbuckle	3600'	

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# & 28#	313	Common	775	3% cc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method						
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio	Gravity		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Comingled .....