



Operator Name LEAVELL RESOURCES CORP Lease Name J.A. ENGEL Well # 4

Sec. 35 Twp. 13 Rge. 20  East  West County ELLIS

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

KB 2219  
 Formation Description  
 Log  Sample

DST #1 Gorham ss 3860-3887 Rec 976'  
 Gassy muddy water IHP 2122  
 IFP 276-444 FSIP 1233  
 FFP 355-654 FSIP 1188  
 FHP 2081 15-30-45-45

DST #2 Arbuckle Dol. 3888-3909  
 Rec 620' Gassy water  
 IHP 2118 IFP 81-114 ISIP 1238  
 FFP 137-268 FSIP 1234  
 FHP 2098 30-30-45-45

Name	Top	Bottom
Topeka	3218	
Heebner	3465	
Toronto	3488	
LANSING	3508	
B/ Kansas City	3756	
GORHAM	3866	
Arbuckle	3885	
TD (Plug + Abandoned)	3912	
B/ ARBUCKLE	3945	
Reagan ss	3951	
GRANITE WASH	3996	
TD	4105	

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	12.75"	8.8"	24	24.8'	E.A. 2.1A	200	17.5% GIL
PRODUCTION	7.75"	5.5"	14	39.24'	HLC	300	1/2% FLOCELE

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			
Size	Set At	Packer at	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	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Disposition of gas:  Vented  Solid  Used on Lease

Open Hole  Perforation  Other (Specify) .....

Dually Completed  Commingled

STATE COMMISSION

NOV-6 1987

JOHN D. HUGHES DIVISION  
 Wichita, Kansas