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MARTHA C. NUSSBAUM
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-19-1990

Form ACO-1 (5-86)

11-9-87

Operator Name Black Petroleum Company Lease Name..... Root Well #..... 1

Sec..... 18 Twp..... 33 Rge..... 1 ☐ East ☒ West County..... Sumner

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

No Drill Stem Tests were run

Formation Description
☐ Log ☒ Sample

Name Top Bottom

No logs were run

Tarkio	1790	- 571
Howard	1985	- 766
Heebner		
Shale	2539	-1320
Iatan	2860	-1641
Kanas		
City	3229	-2010
Stark		
Shale	3360	-2141
Dodds		
Creek		
Sands	3387	-2168
Marmaton	3560	-2341
Cherokee	3709	-2490
Mississippian	3898	-2679
RTD	4294	

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	425	60/40 Poz	250	3% cc, 2% gel

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 ☐ Yes ☐ No	
Size	Set At	Packer at	

Date of First Production	Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....				
	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

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