

Operator Name IMPERIAL OIL & GAS, INC. Lease Name SPINES Well # 3-4Sec. 4 Twp. 29S Rge. 15 ☐ East
☒ West County Pratt

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: 4460-4500 (Marmaton) 60-60-15-70
1st open: strong blow, GTS 10", gauged 18 Mcf.
2nd open: oil to surface in 8", reversed out.
IFP: 37-98 ISIP: 1380
FFP: 958-1027 FSIP: 1400

Name	Top	Bottom
Heebner	3888	-1871
Brown Lime	4053	-2036
Lansing	4064	-2047
B/KC	4436	-2419
Marmaton	4453	-2436
Pawnee	4504	-2487
Mississippi	4537	-2520
Kinderhook Shale	4565	-2548
Viola	4590	-2573

RELEASED

JUN 05 1986

FROM CONFIDENTIAL

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 1/2"	8 5/8"	20#	429'	Lite	200	3% cc
					Common	150	2% gel, 3% cc
Production		5 1/2"	14#	4849'	Lite	75	
					50-50	125	18% salt, .4
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	4475-81'			Acidized w/1200 gals. 15%			
4	4491-95'			FE Acid, 600 gals. @ 5 1/2 bbls.			
				per minute. Dropped 16 ball			
				sealers			
TUBING RECORD		Size	Set At	Packer at	Liner Run	☐ Yes ☐ No	
Date of First Production		Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....					
2-1-85							
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		38 Bbls	-0- MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Commingled