

SIDE TWO

Operator Name **Viking Resources** Lease Name **Wieland** Well # **3**

Sec. **21** Twp. **11** Rge. **31** East West County **Gove**

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																																																			
DST #1, 3962-4050, 30-30-30-30, Rec. 80' Drlg. Mud w/Oil Spots, 250' Watery Mud, BHP: 1235/1256#, HP: 164/452#, no final, HP: 1997/1977, BHT: 114° DST #2, 4080-4164, 30-30-60-60, Rec. 255' Drlg. Mud 65' Mud w/light oil spots, BHP: 1357/1336#, FP: 169/169#, 169/190#, HP: 2053/2033#, BHT: 114° DST #3, 4162-4200, 30-30-60-60, Rec. 75' Oil Cut Mud, 50' Gas in pipe, BHP: 1214/1276#, FP: 41/41 72/82#, HP: 2111/2080#, BHT: 115° DST #4, 4224-4270, 30-30-30-30, Rec. 20' Watery Mud, BHP: 1150/995#, FP: 42/42 42/52#, HP: 2095/2074, BHT: 115° DST #5, 4370-4410, 30-30-60-60, Rec. 680' Gassy Mud Cut Oil, 20' Gassy Oil Cut Mud, BHP: 423/423#, HP: 105/180# 211/254#, HP: 2178/2136#, BHT: 117°	<table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr><td>Anhydrite</td><td>2417 (+496)</td><td></td></tr> <tr><td>B. Anhydrite</td><td>2444 (+469)</td><td></td></tr> <tr><td>Heebner</td><td>3902 (-989)</td><td></td></tr> <tr><td>Toronto</td><td>3930 (-1017)</td><td></td></tr> <tr><td>LKC</td><td>3946 (-1033)</td><td></td></tr> <tr><td>Stark Shale</td><td>4158 (-1245)</td><td></td></tr> <tr><td>BKC</td><td>4224 (-1311)</td><td></td></tr> <tr><td>Marmaton</td><td>4257 (-1344)</td><td></td></tr> <tr><td>Pawnee</td><td>4344 (-1431)</td><td></td></tr> <tr><td>Myrick Station</td><td>4388 (-1475)</td><td></td></tr> <tr><td>Ft. Scott</td><td>4412 (-1499)</td><td></td></tr> <tr><td>Lower Cherokee Sh</td><td>4438 (-1525)</td><td></td></tr> <tr><td>Johnson</td><td>4482 (-1569)</td><td></td></tr> <tr><td>Mississippian</td><td>4524 (-1611)</td><td></td></tr> <tr><td>LTD</td><td>4547 (-1634)</td><td></td></tr> <tr><td>RTD</td><td>4550 (-1637)</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	Anhydrite	2417 (+496)		B. Anhydrite	2444 (+469)		Heebner	3902 (-989)		Toronto	3930 (-1017)		LKC	3946 (-1033)		Stark Shale	4158 (-1245)		BKC	4224 (-1311)		Marmaton	4257 (-1344)		Pawnee	4344 (-1431)		Myrick Station	4388 (-1475)		Ft. Scott	4412 (-1499)		Lower Cherokee Sh	4438 (-1525)		Johnson	4482 (-1569)		Mississippian	4524 (-1611)		LTD	4547 (-1634)		RTD	4550 (-1637)	
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CASING RECORD <input checked="" 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	20	247	60/40 poz	180	2% gel, 3% cc
Production	7-7/8	4 1/2	9.5	4549	Thixotropic Lite	175	1st stage
						450	2nd stage
PERFORATION RECORD Shots Per Foot Specify Footage of Each Interval Perforated				Acid, Fracture, Shot, Cement (Amount and Kind of Material Used)		Squeeze Record (Used) Depth	
2	4388-4392			1500 gallons CRA			4388-4392
TUBING RECORD Size 2-3/8 Set At 4400 Packer at				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production 2-20-86		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours	Oil 40 Bbls	Gas MCF	Water 5 Bbls	Gas-Oil Ratio CFPB	Gravity		

METHOD OF COMPLETION Dually Completed Commingled

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4388-4392
 Used on Lease

