



Operator Name Helmerich & Payne, Inc. Lease Name Riggs Well # 1-2

Sec. 5 Twp. 26 Rge. 33  East  West County Finney

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	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
DST #1 Morrow 4905-5057 IH - 2508 30" IFP - 77 to 83 60" ISIP - 177 60" FFP - 88 to 88 120" FSIP - 137 FH - 2247	Recovery 90' mud		Base Stone Corral 1912 Herrington 2563 Winfield 2619 Council Grove 2841 Topeka 3498 Heebner 3916 Toronto 3939
DST #2 Marmaton C 4543 - 4588 IH - 2263 30" IFP - 116-167 60" ISIP - 1196 60" FFP - 196-338 120" FSIP - 1260 FH - 2247	Recovery: 600' mud Bottom packer failed		Lansing A 3971 Lansing F 4238 KC A 4380 KC B 4426 BKC 4510 Marmaton 4530 Cherokee 4680
DST# 3 Marmaton C 4542-4602 FH - 2186 IH - 2229 30" IFP - 61 to 91 60" ISIP - 1135 60" FFP - 101-112 120" FSIP - 1110	Recovery: 180' mud		Morrow 4934 Chester UNC 5042 St. Gen 5063 St. Louis D 5230 DLD - 5292 LTD 5290
DST#4 Lansing 3964 - 3991 IH - 1954 30" IFP - 564 to 875 60" ISIP - 1080 60" FFP - 929-1073	120" FSIP - 1096, F.H-1954, Recovery: 2350'		120" FSIP - 1096, F.H-1954, Recovery: 2350' sulphur water

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	804	Litewate Class A	175	2% cc, 1/2# Flake
Production	7 7/8	5 1/2	17	2835	Litewate 50/50 poz	400	2% cc, 1/2# Flake

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	2564-2577 Herrington		
2	2585-2626 Krider	4000 gal 7 1/2% HCl, 9600 gal	
2	2632-2649 Winfield	25# X-linkgel, 10000# 100 mesh	
2 & 0.5	2670 -2720 U. Ft. Riley	sd, 286000# 12-20 sd	
0.5	2731-2737 L. Ft. Riley	69 BPM @ 350#	

TUBING RECORD Size Set At Packer at Liner Run  Yes  No

Date of First Production 2-14-89 Producing Method  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil 0 Bbls	Gas 2-17-89 R = 1269 Adj. Del. = 2690 MCF	Water 0 Bbls	Gas-Oil Ratio	Gravity
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METHOD OF COMPLETION Disposition of gas:  Vented  Sold  Used on Lease  Open Hole  Perforation  Other (Specify).....  Dually Completed  Commingled

