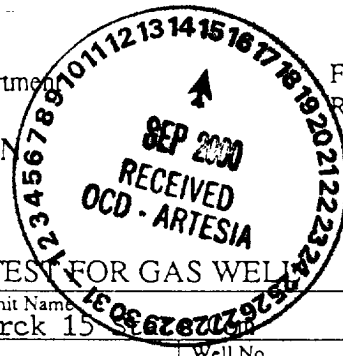


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088



Form C-122
Revised 4-1-91

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator Yates Drilling Company					Lease or Unit Name Spurck 15				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9/9/00				
Completion Date 5/11/00		Total Depth 10230		Plug Back TD 9860		Elevation 3523' GL		Well No. 1	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 10230	Perforations: From: 9804 To: 9843		Unit Ltr. - Sec. - TWP - Rge. D 15 17s 28e			
Tbg. Size 2 7/8	Wt. 6.5#	d 2.441	Set At 9730	Perforations: From: Open To: Ended		County Eddy			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9730		Formation Morrow			
Producing Thru Tbg		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Agave	
9730	H 9730	G _g 0.673	% CO ₂ 0.435	% N ₂ 0.691	% H ₂ S	Prover	Meter Run 4.026	Tap FLG	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI									
1.	4.026 x 1.500			629	4.1	81	895	PACKER	48 Hrs
2.	4.026 x 1.500			633	12.3	78	857		1 Hr
3.	4.026 x 1.500			635	22.6	76	806		1 Hr
4.	4.026 x 1.500			637	38.1	75	752		1 Hr
5.							703		1 Hr

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	10.84	51.31	642.2	.9804	1.253	1.064	727
2.	10.84	89.15	646.2	.9831	1.253	1.066	1269
3.	10.84	121.03	648.2	.9850	1.253	1.066	1726
4.	10.84	157.39	650.2	.9851	1.253	1.067	2249
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 82.931 Mcf/bbl.		
1.	.95	541	1.41	.883	A.P. I. Gravity of Liquid Hydrocarbons 57 @ 60 Deg.		
2.	.96	538	1.40	.880	Specific Gravity Separator Gas .673 XXXXXXXXX		
3.	.96	536	1.40	.880	Specific Gravity Flowing Fluid XXXXXX GMIX = .708		
4.	.97	535	1.40	.879	Critical Pressure 669 P.S.I.A. 668 P.S.I.A.		
5.					Critical Temperature 382 R 392 R		

P _c 908.2	P _c ² 824.8						
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{3.258}$		
1.		873.6	763.2	61.6	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{2.571}$		
2.		830.3	689.4	135.4	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{5.782}$		
3.		787.3	619.8	205.1			
4.		756.0	571.6	253.2			
5.							

Absolute Open Flow **5,782** Mcfd @ 15.025 Angle of Slope θ **51.36** Slope, n **.799**

Remarks: **Well produced 3 bbls condensate during test**

Approved By Division	Conducted By: Jarrel Services, Inc.	Calculated By: Bob Murray	Checked By: Bob Murray
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