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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

CISF
Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR

Operator Nearburg Producing Company				Lease or Unit Name White Tip 7 Federal			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/29/00			
Completion Date 2/25/00		Total Depth 11700		Plug Back TD 11668		Well No. 1	
Csg. Size 5 1/2		Wt. 17#		d 4.892		Set At 11700	
Tbg. Size 2 3/8		Wt. 4.7		d 1.995		Set At 11239	
Perforations: From: 11334 To: 11448				County Eddy			
Perforations: From: Open To: Ended				Pool Happy Valley			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11239		Formation Morrow	
Producing Thru Tbg		Reservoir Temp. °F 167.7@11239		Mean Annual Temp. °F 60		Baro. Press - P 13.2	
Connection El Paso		Meter Run 3.068		Taps FLG			
L 11239	H 11239	Gg 0.612	% CO ₂ 0.909	% N ₂ 0.306	% H ₂ S	Prover	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI						1946		PACKER		24 Hrs
1.	3.068 x 1.750		423	4.84	74	1924		"		1 Hr
2.	3.068 x 1.750		436	12.25	71	1895		"		1 Hr
3.	3.068 x 1.750		476	23.00	71	1856		"		1 Hr
4.	3.068 x 1.750		504	34.80	69	1776		"		1 Hr
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	15.61	45.95	436.2	.9868	1.278	1.038	939
2.	15.61	74.18	449.2	.9896	1.278	1.039	1522
3.	15.61	106.07	489.2	.9896	1.278	1.043	2184
4.	15.61	134.16	517.2	.9915	1.278	1.045	2773
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1.	.65	534	1.47	.928	237.756		
2.	.66	531	1.46	.926	A.P. I. Gravity of Liquid Hydrocarbons 53 @ 60		
3.	.72	531	1.46	.920	Specific Gravity Separator Gas 0.612		
4.	.77	529	1.46	.915	Specific Gravity Flowing Fluid XXXXX		
5.					Critical Pressure 671 P.S.I.A. 671 P.S.I.A.		
					Critical Temperature 362 R 365 R		

P_c 1959.2 P_c 3838.5

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 65.73$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10.97$
1.	1944.2	3780.1	58.4			
2.	1926.9	3713.1	125.4			
3.	1908.4	3642.0	196.5			
4.	1854.8	3440.4	398.1			
5.						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 10.303$$

Absolute Open Flow 10,303 Mcfd @ 15.025 Angle of Slope θ 60.2 Slope, n .5723

Remarks: Well produced 1.3 bbls condensate

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