

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

RECEIVED
OCD - ARTESIA
JAN 1992

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator STEVENS & TULL					Lease or Unit Name LITTLE BOX				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-22-98		Well No.		
Completion Date 11-17-98		Total Depth		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge. F 36-20-21	
Csg. Size		Wt.	d	Set At	Perforations:		County		
					From: 7926 To: 7950		EDDY		
Tbg. Size		Wt.	d	Set At	Perforations:		Pool Little Box Canyon Morrow		
2-3/8		4.7	1.995	7923	From: To:				
Type Well - Single - Bradenhead - G.G. or G.Q. Multiple single					Packer Set At 7816		Formation MORROW		
Producing Thru TBG		Reservoir Temp. °F 149.7		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection AIR	
L 7938	II 7938	Gg .691	% CO ₂ .642	% N ₂ 4.244	% H ₂ S -0	Prover -0-	Meas. Run 4.026	Taps FLG	

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						2190	60°	PRK		81hr
1.	4.026 X 2.000		235	6"	70°	2005	60°	"		60min
2.	4.026 X 2.000		240	18"	70°	1810	60°	"		60min
3.	4.026 X 2.000		240	41"	68°	1430	60°	"		60min
4.	4.026 X 2.000		380	56"	66°	900	60°	"		60min
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\frac{h_w}{P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	19.81	38.6	248.2	.9905	1.203	1.030	936
2.	19.81	67.5	253.2	.9905	1.203	1.030	1641
3.	19.81	101.8	253.2	.942	1.203	1.030	2479
4.	19.81	148.4	393.2	.941	1.203	1.031	3621
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mc/bbl
1.	.79	530	1.62	.942	N/A	
2.	.79	530	1.62	.942	N/A	
3.	.79	528	1.61	.942		
4.	.78	526	1.61	.941		
5.						

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²
1.		2064.9	4263.8	677.9
2.		1888.7	3567.2	1374.5
3.		1553.6	2413.7	2528.0
4.		1167.8	1363.7	3578.0
5.				

1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.38$ (2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.29$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 4.671$

Absolute Open Flow 4.671 Mcfd @ 15.025	Angle of Slope θ 51.05	Slope, n .8082
---	--------------------------------------	-----------------------

Remarks: * WELL MADE NO FLUID DURING TEST

* CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES

Approved By Division	Conducted By: PRO WELL TESTING	Calculated By: MB	Checked By: BM
----------------------	--	-----------------------------	--------------------------