WF C/SF File

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 11-30-83				
Company: Belco Development Corp. ✓					Connection: To Air					
Pool: North Loving Atoka					Formation: Atoka				Unit	
Completion Date: 4-30-83		Total Depth: 12,622			Plug Back TD: 11,768		Elevation: 3076 K.B.		Farm or Lease Name: Lakey Com	
Csg. Size: 7 5/8" 5" Liner	Wt.: 29.7# 18#	d: 6.875 4.276	Set At: 9615 12,621		Perforations: From 11347 To 11353				Well No.: 1	
Tbg. Size: 2 3/8"	Wt.: 4.7#	d: 1.995	Set At: 11245 309		Perforations: From OPEN To ENDED				Unit: L	Sec.: 20 Twp.: 23S Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE					Packer Set At: 11,210'				County: Eddy	
Producing Thru: Tubing		Reservoir Temp. °F: 188 @ 11,350			Mean Annual Temp. °F: 60°		Baro. Press. – P_a: 13.2		State: New Mexico	
L: 11,350	H: 11,350	Gg: .6096	% CO_2: .757	% N_2: 4.698	% H_2S:	Prover:	Meter Run: 4"		Taps: Flange	

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	Press. p.s.i.g.	Temp. °F	
SI							6340	65°	PKR.	CHOKE	48 Hrs.
1.	4	x	1.250	560	6	101°	5450	63		5/64	1 Hr.
2.	4	x	1.250	570	11	81	4130	63		6.5/64	1 Hr.
3.	4	x	1.250	570	20	80	3000	62		9/64	1 Hr.
4.	4	x	1.250	580	20	84	1446	61		12/64	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, Fpv	Rate of Flow Q, Mcfd
1	7.469	58.64	573.2	.9628	1.280	1.033	558
2.	7.469	80.09	583.2	.9804	1.280	1.040	781
3.	7.469	108.0	583.2	.9813	1.280	1.040	1054
4.	7.469	108.92	593.2	.9777	1.280	1.039	1057
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.86	561	1.62	.937
2.	.87	541	1.56	.925
3.	.87	540	1.56	.925
4.	.89	544	1.57	.926
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .610 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 666 P.S.I.A. P.S.I.A.
Critical Temperature: 347 R R

P_c _____ P_c^2 _____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5483.3	30066.6	10296.6
2		4191.2	17566.2	22797.0
3		3054.8	9331.8	3101.4
4		1498.6	2245.8	38117.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.920$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.9799$

AOF $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1,105$

Post FD-2
1-6-84
Temp + BH

Absolute Open Flow: 1,105 Mcfd @ 15.025 Angle of Slope θ: 63.5 Slope, n: .500

Remarks: No Fluid. Bottom Hole Pressures measured with Kuster Gauge. Pw was figured from known Bottom Hole Pressures.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	R.R.	R.R.