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ARTESIA, OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-58

Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 10-23-84				
Company: BELCO DEVELOPMENT CORP.				Connection: TO AIR					
Pool: Los Medanos Morrow				Formation: Morrow				Unit:	
Completion Date: 10-11-84	Total Depth: 15,090'			Plug Back TD: ~~15,010'~~ 14,990		Elevation: KB 3339		Farm or Lease Name: JAMES RANCH Unit	
Csg. Size: 7" 5" Liner	Wt.: 18#	d: 4.276	Set At: 12,265' 11,811'	Perforations: From 14,486 To 14,576'				Well No.: 15	
Tbg. Size: 2 3/8"	Wt.: 4.6	d: 1.995	Set At: 15,090 14,430'	Perforations: From OPEN ENDED				Unit: O Sec.: 7 Twp.: 23S Rge.: 31E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE				Packer Set At: 14,388'				County: Eddy	
Producing Thru: TUBING	Reservoir Temp. °F: 217° @ 14,300'			Mean Annual Temp. °F: 60°		Baro. Press. – P_a: 13.2		State: N.M.	
L: 14,300	H: 14,300	Gg: .592	% CO_2: 1.263	% N_2: 1.358	% H_2S:	Prover:	Meter Run: 4.026		Taps: Flange

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						5000	53°	PKR	CHOKE	72 Hrs.
1.	4.026	x 1.50	520	10	51°	4695	55		6/64	1Hr.
2.	4.026	x 1.50	540	25	62	4389	56		7/64	1Hr.
3.	4.026	x 1.50	560	48	54	3895	56		9/64	1Hr.
4.	4.026	x 1.50	570	72	71	3165	57		11/64	1Hr.
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	10.84	73.02	533.2	1.009	1.300	1.047	1087
2	10.84	117.60	553.2	.9981	1.300	1.045	1729
3	10.84	165.87	573.2	1.006	1.300	1.049	2467
4	10.84	204.92	583.2	.9896	1.300	1.045	2981
5							

NO.	P_t	Temp. °R	T_r	Z
1	.79	511	1.46	.913
2	.82	522	1.49	.916
3	.85	514	1.47	.909
4	.86	531	1.52	.919
5				

Gas Liquid Hydrocarbon Ratio: Dry Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .592 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 675 P.S.I.A. P.S.I.A.
Critical Temperature: 350 R R

P_c 5038.2 P_c^2 25383.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4761.1	22668.1	2715.3
2		4479.1	20062.3	5321.1
3		4006.2	16049.6	9333.8
4		3320.7	11027.0	14356.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.720$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.976$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.876$

Post ID & 4-5-85 comp + BR

Absolute Open Flow: 4,876 Mcfd @ 15.025 Angle of Slope @: 55.75 Slope, n: .681

Remarks: Bottom hole pressures measured with Kuster Gauge.

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