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O. C. C.
ARTESIA, OFFICE

Form C-122
Revised 9-1-65

N MEXICO OIL CONSERVATION COMM. ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 12-8-72	
Company: Belco Petroleum Corporation	Connection: Natural Gas Pipeline Company of America			
Pool: Wildcat	Formation: Strawn			Unit: James Ranch Unit
Completion Date: 3-7-72	Total Depth: 15,595	Plug Back TD: 15,200	Elevation: 3288 GR	Farm or Lease Name: James Ranch Unit
Csg. Size: 5 1/2 | Wt.: | d: | Set At: 15,434	Perforations: From ~~12,998~~ 12,731 To ~~13,005~~ 12,773			Well No.: 3
Tbg. Size: 2 7/8 | Wt.: | d: | Set At: 13,600	Perforations: From ~~12,731~~ To ~~12,773~~			Unit: J Sec.: 1 Twp.: 23S Rge.: 30E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single-Annulus Dual Completion	Packer Set At: XXXXXXXX Retrievable Bridge Plug @ 12,847'			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 186 @ 12500	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12752	12752	0.663					X	

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							6287		Pkr.		
1.	4"	X	1"	125	7	58	6264	70	"		1/2 hr.
2.	4"	X	1"	360	36	64	6194	70	"		1/2 hr.
3.	4"	X	1"	470	64	76	6107	70	"		1/2 hr.
4.	4"	X	1"	640	82	82	5999	70	"		1/2 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	4.753	31.1	138.2	1.002	1.228	1.015	184.6
2.	4.753	106.2	313.2	0.9962	1.228	1.034	638.5
3.	4.753	163.6	418.2	0.9850	1.228	1.040	978.2
4.	4.753	231.4	653.2	0.9795	1.228	1.063	1406.3
5.							

NO.	P_t	Temp. °R	T_f	Z
1.				
2.	Used Simplified			
3.	Supercompressibility			
4.	Tables			
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.663 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. P.S.I.A.
Critical Temperature: 378 R R

P_f 8165.2 P_f^2 66670

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		8142.2	66295	375
2		8076.2	65225	1445
3		8011.2	64179	2491
4		7932.2	62920	3750
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ _____

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

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

Absolute Open Flow: 18,000 Mcfd @ 15.025 | Angle of Slope θ: 49° 56' | Slope, n: 0.87376

Remarks: ~~BHP measured with Amerada RPG-3 gauge.~~

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	