C/SF
File

RECEIVED
SEP 8 11 32 AM '83

SEP 12 1983
O. C. D.
ARTESIA, OFFICE

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: 8-23-83			
Company: Jake L. Hamon				Connection: To Air					
Pool: Dublin Ranch				Formation: Atoka				Unit: O	
Completion Date: 8-22-83		Total Depth: 12,770		Plug Back TD: 12,688		Elevation: 3065. K.B.		Farm or Lease Name: Schalk Fed. Com 33	
Csg. Size: 4½" Liner	Wt.: 14.9	d: 3.826	Set At: 12,769	Perforations: From 11,482 To 11,545				Well No.: 1	
Tbg. Size: 2 7/8"	Wt.: 6.5	d: 2.441	Set At: 10,908	Perforations: From OPEN-ENDED To				Unit: O Sec.: 33 Twp.: 22S Rge.: 28E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE				Packer Set At: 10,870				County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 183°	Mean Annual Temp. °F: 10,908 60°		Baro. Press. – P_a: 13.2				State: N.M.	
L: 10,908	H: 10,908	Gg: .579	% CO_2: .510	% N_2: .852	% H_2S:	Prover:	Meter Run: 3"	Taps: Flange	

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							5810		PKR	CHOKE	48 Hrs.
1.	3	x	1.750	650	58	50°	2115	64°			
2.	3	x	1.750	545	32	32	3273	65		16/64	1 Hr.
3.	3	x	1.750	540	12	68	4373	67		12/64	1 Hr.
4.	3	x	1.750	525	3	72	5058	68		8/64	1 Hr.
5.										6/64	1 Hr.

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	15.61	196.13	663.2	1.010	1.314	1.057	4295
2	15.61	133.65	558.2	1.029	1.314	1.054	2973
3	15.61	81.48	553.2	.9924	1.314	1.040	1725
4	15.61	40.18	538.2	.9887	1.314	1.039	847
5							

NO.	P_t	Temp. °R	T_r	Z
1	.99	510	1.47	.895
2	.83	492	1.42	.900
3.	.82	528	1.53	.924
4	.80	532	1.54	.927
5				

Gas Liquid Hydrocarbon Ratio: T.S.T.M. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 44.27 @ 60° Deg.
Specific Gravity Separator Gas: .579 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 346 R R

P_c 5823.2 P_c^2 33909.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2175.8	4734.1	29175.6
2		3303.1	10910.5	22999.2
3		4391.5	19285.3	14624.4
4		5134.2	26360.0	7549.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.162$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.162$

AOF = $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.992$

Post FD-2
9-16-83
Comp. + HR.

Absolute Open Flow: 4,992 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.00

Remarks: Equivalent and friction factor were figured.

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