Well file

EW MEXICO OIL CONSERVATION CO SSION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS - 122 file

RECEIVED
JUN 23 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [x] Initial [ ] Annual [ ] Special				Test Date: 6-17-77	
Company: H.N.G. Oil Co.			Connection: None		Unit
Pool: Wildcat			Formation: Morrow		
Completion Date: 6-15-77	Total Depth: 12,920		Plug Back TD: 12,838	Elevation: 3005.5 GL	Farm or Lease Name: Ogden 8 Com
Csg. Size: 4½ / Wt.: 13.5 / d: / Set At: 12,920			Perforations: From 12,216 To 12,548		Well No.: 1
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: / Set At: 10,200			Perforations: From ~~12,216~~ To ~~12,548~~		Unit: H / Sec.: 8 / Twp.: 24-S / Rge.: 28-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10,200		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 199@12,382	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,200	10,200	.63	None	None	None		x	Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							4221	68	Packer		
1.	3.068		2.0	221	5.8	78	3738	72			60 min.
2.	3.068		2.0	280	10.0	72	3540	72			60 min.
3.	3.068		2.0	332	16.6	62	3267	70			60 min.
4.	3.068		2.0	310	30.0	50	2737	71			60 min.
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	21.32	36.86	234.2	.9831	1.260	1.021	994
2.	21.32	54.15	293.2	.9887	1.260	1.027	1477
3.	21.32	75.70	345.2	.9981	1.260	1.035	2101
4.	21.32	98.47	323.2	1.010	1.260	1.032	2757
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.35	538	1.46	.959
2.	.44	532	1.45	.949
3.	.52	522	1.42	.934
4.	.48	510	1.39	.939
5.				

Gas Liquid Hydrocarbon Ratio: None made Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: None made Deg.
Specific Gravity Separator Gas: .63 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 368 R ____ R

P_c 5375.2 P_c^2 28893

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		4899.2	24002	4891
2		4679.2	21895	6998
3		4400.2	19362	9351
4		4032.2	16259	12634
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.287$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.2695$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6257$

Absolute Open Flow: 6257 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: .998

Remarks: Bottom Hole Pressure measured with Amerada Instrument No. 40090 0-7300# Element

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Spruell	Spruell	Morgan