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C-122

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

Form C-122
Revised 9-1-65

RECEIVED
AUG 3 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 7-25-73		
Company: Texas International		Connection: None			
Pool: Dos Hermanos (Morrow)		Formation: Morrow Gas		Unit:	
Completion Date: 7-19-73	Total Depth: 12625'	Plug Back TD: 12034'	Elevation: 3410'KB	Farm or Lease Name: Hudson Fed.Comm	
Csg. Size: 5½	Wt.: 17.0 / 20.0	d: 4.892 / 4.778	Set At: 12625'	Perforations: From 11777' To 11804'	Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 11523'	Perforations: From Open To Ended	Unit: J Sec.: 29 Twp.: 20s Rge.: 30e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 11523'		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 186°@	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
11777'	-	0.606	0.27	0.48	0.00		X	F

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. DWT	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					4941		PACKER		69.5
1.	4 12/64 2.250	600	43	72	3080	79			1.0
2.	4 10/64 2.250	400	41	72	3510	81			1.0
3.	4 8/64 2.250	400	20	72	4050	83			1.0
4.	4 6/64 2.250	300	9	92	4495	82			2.0
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	25.64	162.37	613.2	0.9887	1.285	1.048	5543.2
2.	25.64	130.15	413.2	0.9887	1.285	1.033	4375.3
3.	25.64	90.90	413.2	0.9887	1.285	1.033	3058.9
4.	25.64	53.09	313.2	0.9706	1.285	1.021	1733.4
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.91	532	1.50	0.910
2.	0.61	532	1.50	0.938
3.	0.61	532	1.50	0.938
4.	0.46	552	1.56	0.959
5				

Gas Liquid Hydrocarbon Ratio 478.867 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51.8 Deg.
Specific Gravity Separator Gas 0.606 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 674 P.S.I.A. - P.S.I.A.
Critical Temperature 354 R - R

P_c 6270.2 P_c^2 39315.4

NO	P_t^2	P_w *	P_w^2	$P_c^2 - P_w^2$
1	-	4349.2	18915.5	20399.9
2	-	4883.2	23845.6	15469.8
3	-	5403.2	29194.6	10120.8
4	-	5785.2	33468.5	5846.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.927$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.830$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 10144$

Absolute Open Flow 10144 Mcfd @ 15.025 Angle of Slope θ 47° 15' Slope, n 0.924

Remarks: * BHP @ (-8367') 11777' Used for pressure calculations

Lou A. Coleman

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COLEMAN PET.ENG.CO.	JOE A. COLEMAN	JOE A. COLEMAN