

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

SF
Form C-122
Revised 9-1-65
122

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-4-79		OCT 10 1979	
Company Sol West III						Connection			
Pool Undesignated N. Turkey Track (Morrow)						Formation Morrow		Unit O. C. C. ARTESIA, OFFICE	
Completion Date 9-25-79		Total Depth 11180		Plug Back TD 11136		Elevation 3475KB		Farm or Lease Name Turkey Track Com.	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 11180	Perforations: From 10860 To 10869		Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10816	Perforations: From To		Unit Sec. Twp. Rge. I 26 18S 28E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 10820		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F 70		Baro. Press. - P _a		State New Mexico	
L 10865	H 10865	Gg 0.623	% CO ₂ 0.53	% N ₂ 0.25	% H ₂ S 0.08	Prover	Meter Run X	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _v	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI	216 hours				L-10		3201		Pkr.		
1.	4" X 1.750"			579.7	1.2	85	3167	85	Pkr.		60 mins.
2.	4" X 1.750"			581.2	2.25	77	3187	77	Pkr.		60 mins.
3.	4" X 1.750"			595.2	4.62	74	3016	74	Pkr.		60 mins.
4.	4" X 1.750"			628.4	8.2	75	2726	75	Pkr.		60 mins.
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	14.93	9.24	592.9	0.9768	1.267	1.051	567.4
2	14.93	17.35	594.4	0.9840	1.267	1.054	1076.3
3	14.93	36.04	608.4	0.9868	1.267	1.055	2244.2
4	14.93	65.68	641.6	0.9859	1.267	1.056	4090.1
5	L-10 Factor = 3.162						

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	66775	Mcfd/bbl.
1		USED			A.P.I. Gravity of Liquid Hydrocarbons	53.7	Deq.
2		SIMPLIFIED			Specific Gravity Separator Gas	XXXXXXXXXX	
3		SUPERCOMPRESSIBILITY			Specific Gravity Flowing Fluid	XXXXXX	
4		TABLES			Critical Pressure	671	P.S.I.A.
5					Critical Temperature	365	R

P _f 4285.2 P _f ² 18363				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.98318$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.21301$	
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 13141.55$		
1		4258.2	18132	231			
2		4216.2	17776	587			
3		4091.2	16738	1625			
4		3831.2	14678	3685			

Absolute Open Flow		13141.55	Mcfd @ 15.025	Angle of Slope @	53.992°	Slope, n	0.72675
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Remarks: BHP measured with Amerada RPG - 3 Gauge No. 44784, 0-6000 PSI	
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Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: D. A. Warren, Jr.	Checked By:
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