EW MEXICO OIL CONSERVATION CO SION

MULTIPOIN AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

JAN 21 1982

O. C. D.
ARTESIA, OFFICE

C/SF C-122

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-08-82	
Company: HARVEY E. YATES COMPANY			Connection: EL PASO NATURAL GAS		
Pool: SOUTH EMPIRE Morrow			Formation: MORROW		Unit
Completion Date: 11/19/81	Total Depth: 11,000'		Plug Back TD: 10,955'	Elevation: 3540' GL	Farm or Lease Name: TRAVIS DEEP OHIO COM
Csg. Size: 4-1/2" / Wt.: 11.6# / d: 3.875" / Set At: 11,000'			Perforations: From 10,850' To 10,858'		Well No.: #1
Tbg. Size: 2-3/8" / Wt.: 4.7# / d: 1.995" / Set At: 10,801'			Perforations: From N/A To		Unit: M / Sec.: 13 / Twp.: 18S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 10,809'		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 155 @ 10,854'	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
10854	10854	0.654	0.53	0.47	Nil		X	

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	71 HOURS				1937		PKR.	--	
1.	4.026" X 1.750"	33.04	1.44	54	1700	54	"	--	60 MINS.
2.	4.026" X 1.750"	34.41	3.24	60	1486	60	"	--	60 MINS.
3.	4.026" X 1.750"	33.04	4.84	68	1230	68	"	--	60 MINS.
4.	4.026" X 1.750"	37.21	7.29	70	910	70	"	--	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	6.898	46.24	1.0060	1.2365	1.011	153.2
2.	14.93	12.420	47.61	1.0000	1.2365	1.010	231.6
3.	14.93	14.960	46.24	0.9924	1.2365	1.010	276.8
4.	14.93	19.170	50.41	0.9905	1.2365	1.009	353.7
5.							

NO.	P_t	Temp. °R	T_f	Z
1.		USED		
2.		SIMPLIFIED		
3.	SUPER	COMPRESSIBILITY		
4.		TABLES		
5.				

Gas Liquid Hydrocarbon Ratio: Nil Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: -- Deg.
Specific Gravity Separator Gas: 0.654 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 375 R ____ R

P_c 3149.2 P_c^2 9917.5

NO	P_t^2	P_s	P_s^2	$P_c^2 - P_s^2$
1		2810.2	7897.2	2020.3
2		2527.2	6386.7	3530.8
3		2202.2	4849.7	5067.8
4		1788.2	3197.7	6719.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.47586$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.31126$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 463.794$

Absolute Open Flow 469 ~~463.794~~ Mcfd @ 15.025 | Angle of Slope θ 55.15 | Slope, n 0.69620

Remarks: BHP MEASURED WITH AMERADA RPG-3 GAUGE NO. 47504, 0-6000 P.S.I. RANGE

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	TEFTELLER, INC.	D. A. WARREN, JR.	