BIG E TESTERS A Division of Big E Industries, Inc.	ORILL STFM		CULATIO RESERVOI		ANAI	LYSIS	
COMPANY GAS PRODUCTION	ENTERPRISES COUNTY	LEA	STATINEW	MEXICO LEAS	SE CHAI	MBERS WELL 1 TES	ST NO 1
TEST DEPTHS	PRESSURE	DATA				ID FLUID DATA	71 110
FORMATION OLF CAMP-MORROW	IHP 504	l psia	DC ID			HOLE SIZE 7 7	78
	FHP_ 502		DC LENGTH			MUD WT., MW	
	ISIP3260	, , , , , , , , , , , , , , , , , , ,	DP ID		п.	GAS GRAVITY	ID/9
	IFP 387	, ,			!-	RES. TEMP., T°	
	FFP, Pf 534					GAS COMP., Z	
RECORDER NO. 3355	FSIP3214					GAS VISCOSITY, Mg	
_	flow time, t 60					GOR	
	CAL	CULATIONS	AND ANA	LYSIS	******		
CALCULATIONS			FORMULA	A		RESULTS	
1. EXTRAPOLATED STATIC	Initial	Poi				3280	psi
PRESSURE (HORNER PLOT)	Final	Poi		** ·		3275	psi
2. RESERVOIR PRESSURE		$G = \frac{Poi}{I}$					p:
GRADIENT		$G = \frac{1}{L}$			1	•3112	Ť
CALCULATED HYDROSTATIC PRESSURE		$CHP = L \frac{MW}{8.33} (.433)$				5025	psi
4. PRESSURE ELEMENT ACCURACY		$E = \frac{IHP}{CHP} (100)$				100	. %
5. SLOPE OF P^2 versus $\frac{t + \Delta t}{\Delta t}$		m'				355	psi/cycle
6. GAS PRODUCTION RATE		$Q_g = \frac{Rec.}{T} (24)$				355,000	scfpc
7. TRANSMISSIBILITY		$\frac{\text{kgh}}{\text{Jug}} = \frac{1.637 \text{ Qg } \text{ZT}^{\circ}}{\text{m'}}$				230.5	md-f
8. GAS PERMEABILITY CAPACITY		Kgh = Kgh مور مورد				3.572	md-f
9. EFFECTIVE GAS PERMEABILITY IN RESERVOIR		$K_g = \frac{K_g h}{h}$, $h = \frac{10}{2}$				•3572	mo
10. ACTUAL FLOWING CAPACITY (STEADY STATE PI METHOD)		$(K_gh)_1 = \frac{Q_{guig}T^o Z[2.3Log(.472 \frac{b}{Iw})]}{.704 (Po_i - P1)}$					md-f
11. DAMAGE RATIO = 1/CR (GLADFELTER ET AL)		$DR = \frac{K_g h}{(K_g h)_1}$					
12. PRODUCTION RATE IF DAMAGE REMOVED		Q_g , = DR Q_g				6,638,500	scfpc
13. APPROX. RADIUS OF INVESTIGATION		$b = \sqrt{KgTP}$	o (0.0156)			110	f
THE FORMATION BUILD UPS OCCU EXTRAPOLATED R MCKINLEY PLOT LOSS 1400 P.S. A HIGH RESERVO	PRODUCED ENOURED FOR A REA ESERVOIR PRES INDICATED FOR I. TR PERMEABILT ERY LITTLE DE	GH RESERVOI SONABLE EVA SURE WAS #3 MATION DAMA TY IS INDIC PLETION IS	R FLUID FO LUATION OF 290 P.S.I. GE DUE TO	OR PROPER F RESERVOI THIS PL FLUID INV	INDEN R PAR OT AS ASION THE	WELL AS THE	SSURE
						7.0	

IOTICE: These calculations and all remarks are designed to furnish you with the facts of the Drill Stem Test, and as such are BIG E TESTERS opinion only.