

PERMIAN TESTERS, INC.

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ODESSA, TEXAS
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ARTESIA, OFFICE

TICKET NO. 6659

DATE April 21, 1988

ORDER NO.

DISTRICT

COMPANY Primary Fuels, Inc.

LEASE	PFI Amoco 19 Federal	WELL NO.	3Y	TEST NO.	3	FORMATION	Morrow Sand	ELEVATION	3384.7' GL
FIELD	Happy Valley Morrow Gas	COUNTY	Eddy	STATE	New Mexico	INTERVAL TESTED	10,966 TO 11,100	ANCHOR LENGTH	134'
MORROW SAND MID DATA									

DRILL STEM TEST DATA

BOTTOM HOLE CHOKE		5/8"		SURFACE		1" Adj.		CUSHION		None	
TIME TOOL OPENED		1:20 A.M.		RECORDER DATA							
TOOL OPEN BEFORE I.S.P.		05		MIN.		TYPE		AK-1		CAPACITY 8375	
INITIAL SHUT-IN		1		HRS		0		MIN.		TOP 13390 DEPTH 10943	
TOOL OPEN		1		HRS		30		MIN.		BOTTOM 13391 DEPTH 11097	
FINAL SHUT-IN		3		HRS		16		MIN.		CLOCK TOP 24 Hr. BOTTOM 24 Hr.	
SURFACE ACTION		Preflow: Open with a weak to fair blow in 1½ min. Blow steadily in-									

SURFACE ACTION	Preflow:	Open with a weak to fair blow in 1½ min. Blow steadily increased to 24 lb. at 5 min.

G.T.9. at 5 min. into I.S.I.P.

Final Flow: Open with a fair blow in $\frac{1}{4}$ min. Open $\frac{1}{4}$ " choke, built to 55 psi @ 15 min. (362 mcf/d), and 58 lb @ 30 min. (378 mcf/d), and remained same for 45 min. Built to 59 lb. @ 75 min. (383 mcf/d), and remained same for remainder of flow.

RECOVERY 340' total fluid

All gas cut drlg. mud

Top Chl.	110,000 PPM	Rw. .086 @ 60°

Top Shift	100.000	Rw	.086 @ 60°
Mid Chl	110.000 PPM		

NAME	CHARGE	DATE	TIME	REMARKS
Bat	Ch1	115.000	PPM	Rw. .085 @ 60°

REMARKS

SUCCESSFUL TEST Yes

B.H. TEMPERATURE 178 °F @ 10942

APPROVED BY
L.P. Mallone

TESTER Glen Hogue, Jr.

	RECORD NO.	RECORD NO.
	13391	
A	(INITIAL HYDROSTATIC PRESSURE)	5677 PSI PSI
B	(INITIAL PRE-FLOW PRESSURE)	607 PSI PSI
C	(FINAL PRE-FLOW PRESSURE)	324 PSI PSI
	5 MIN.	
D	(INITIAL SHUT-IN PRESSURE)	4743 PSI PSI
	60 MIN.	
E	(INITIAL FLOW PRESSURE)	464 PSI PSI
F	(FINAL FLOW PRESSURE)	341 PSI PSI
	88 MIN.	
G	(FINAL SHUT-IN PRESSURE)	4759 PSI PSI
	190 MIN.	
H	(FINAL HYDROSTATIC PRESSURE)	5677 PSI PSI

TOTAL DEPTH	11100	MAIN HOLE	7 7/8"
RAT HOLE		CASING SIZE	8 5/8
DEPTH OF CSG	2200	TYPE MUD	XC Poly
MUD WT	9.6+	VISCOSITY	34
WATER LOSS	6.0	CAKE FILM	
CHLORIDE	115,000	PPM	
RESISTIVITY	.085	@	60 °F

TOOL DATA

NO PACKERS	2	STRADDLE TEST
SIZE PACKERS	6 3/4	CSG. TEST
CONVENTIONAL TEST Yes		

TYPE TOOL	DEPTH	LENGTH	I.D.	O.D.
4½ XH DP		10287	3.8	4.5
4½ XH DC		548	2.3	6.25
Cir Sub	10836	1		
3DC		90		
Shut-in		6		
Sampler		3		
Hyd. Tool		5		
Jars		6		
Recorder		5		
Safety Jt.		2		
Packer	10960	6		
Packer	10966	6		
Perf				
4 DC				
Perf				
Recorder		134		
DRLG CONT	TOT	RIG #	2	

DRUG CONT

TOT

RIG # 2