



PERMIAN TESTERS, INC.

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ODESSA, TEXAS 79762

RECEIVED

JUL 26 '88

COMPANY Primary Fuels, Inc.
LEASE PFI Amoco 19 Federal
FIELD Happy Valley Morrow Gas County
TEST NO. 3Y
STATE New Mexico
FORMATION Morrow Sand
INTERVAL TESTED 10,840 TO 10,894
ELEVATION 3384.70
ANCHOR LENGTH 52

TICKET NO. 6658
DATE April 18, 1988
ORDER NO.
DISTRICT

O. C. D.
ARTESIA, OFFICE

DRILL STEM TEST DATA
BOTTOM HOLE CHOKE 5/8" SURFACE 1" Adj.
TIME TOOL OPENED 6:35 P.M.
TOOL OPEN BEFORE ISIP 5 MIN. TYPE AK-1
INITIAL SHUT-IN 1 HRS. TOP 13390 CAPACITY 8375
TOOL OPEN 3 HRS. BOTTOM 13391 DEPTH 10823
FINAL SHUT-IN 6 HRS. DEPTH 10891
SURFACE ACTION Preflow: Open with a fair blow in 1/2 min. Blow Built to 29 lb. at end.
G.T.S. 18 min. into ISIP.
Final Flow: Open with a good blow. Open 1/2" at 1 min. Blow built to 60 lb. on 1/2" @ 25 min. (388 mcf/d) and remain same until 60 min. At 60 min. blow steadily decreased to 44 lb. on 1/2" @ 120 min. (306 mcf/d) and 38 lb. on 1/2" @ 150 min. (275 mcf/d) and 34 lb. on 1/2" @ 180 min. (253 mcf/d).

RECOVERY 120' Gas Cut Drlg Mud
Top Chl. 115,000 PPM R.w. .085 @ 60°
Bot Chl. 115,000 PPM R.w. .085 @ 60°

REMARKS

SUCCESSFUL TEST Yes
TESTER Glen Hogue, Jr.
B H. TEMPERATURE 176 °F @ 10822'
APPROVED BY L.P. Mallone

	RECORDER NO.	RECORDER NO.
A	13390	
B	5465 PSI.	PSI.
C	215 PSI.	PSI.
D	115 PSI.	PSI.
E	4529 PSI.	PSI.
F	195 PSI.	PSI.
G	109 PSI.	PSI.
H	3853 PSI.	PSI.
	5486 PSI.	PSI.

HOLE AND MUD DATA			
TOTAL DEPTH	10894	MAIN HOLE	7 7/8
RAT HOLE		CASING SIZE	8 5/8
DEPTH OF CSG	2200	TYPE MUD	XC Pol
MUD WT.	9.7	VISCOSITY	5
WATER LOSS	6.4	CAKE	2.32
CHLORIDE	64,000 PPM		
RESISTIVITY	.13	@	60

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

TYPE TOOL	DEPTH	LENGTH	I.D.	O.I.
4 1/2 XH DP		10081	3.8	4.5
4 1/2 XH DC		638	2.3	6.2
Cir Sub	10720	1		
3 DC		90		
Shut-in		6		
Sampler		3		
Hyd. Tool		5		
Jars		6		
Recorder		5		
Safety Jt.		2		
Packer	10834	6		
Packer	10840	6		
Perf				
1 DC				
Perf				
Recorder		54'		

DRLG. CONT. TOT