

DRILL STEM TEST DATA

BOTTOM HOLE CHOKE	5/8"	SURFACE	Adj.	CUSHION	None	ELEVATION	3595'	KB	KK
TIME TOOL OPENED	7:15 A.M.			RECORDER DATA					
TOOL OPEN BEFORE ISIP	30	MIN.	TYPE	AK-1		CAPACITY	8375		
INITIAL SHUT-IN	1	HRS.	-	MIN.	TOP	13,390	DEPTH	9353	
TOOL OPEN	1	HRS.	-	MIN.	BOTTOM	13,391	DEPTH	9393	
FINAL SHUT-IN	3	HRS.	-	MIN.	CLOCK TOP	18 hr.	BOTTOM	24 hr.	
SURFACE ACTION									
Pre-flow: Opened with a fair blow in 1/2 minute. Opened 1/2" choke at 2 minutes with 6 lb. Blow decreased to 1 3/4 lb. at 15 minutes and 2 1/2 lb. at 30 minutes.									
Final Flow: Opened with a fair blow in 1 minute. Built to 2 1/2 lb. at 5 minutes.									
Decreased to 2 1/2 lb. at 15 minutes. Gas to surface at 25 minutes with 1 3/4 lb.									
Decreased to 1 1/2 lb. at 40 minutes and remained same for remainder of test.									
RECOVERY									
280' Total Fluid.									
93' Gas Cut Drilling Mud.									
187' Heavily Oil and Gas Cut Drilling Mud.									
Chlorides: Top 28,000 P.P.M. Rw .17 @ 60°.									
Middle 27,000 P.P.M. Rw .17 @ 60°.									
Bottom 21,000 P.P.M. Rw .23 @ 60°.									
SUCCESSFUL TEST Yes.									

	RECORDER NO.
	13390
A (INITIAL HYDROSTATIC PRESSURE)	4421.6 P.S.I.
B (INITIAL PRE-FLOW PRESSURE)	307.5 P.S.I.
C (FINAL PRE-FLOW PRESSURE) 30 MIN.	147.5 P.S.I.
D (INITIAL SHUT-IN PRESSURE) 60 MIN.	309.6 P.S.I.
E (INITIAL FLOW PRESSURE)	233.7 P.S.I.
F (FINAL FLOW PRESSURE) 60 MIN.	172.1 P.S.I.
G (FINAL SHUT-IN PRESSURE) 180 MIN.	447.3 P.S.I.
H (FINAL HYDROSTATIC PRESSURE)	4396.4 P.S.I.

HOLE AND MUD DATA

TOTAL DEPTH	9396	MAIN HOLE	7 7/8
DEPTH OF CSG.	3357	CASING SIZE	9 5/8
MUD WT.	8.9+	VISCOSITY	33
WATER LOSS	8	CAKE	1/32
TYPE MUD	Poly Pac		
CHLORIDE	32,000 P.P.M.		
RESISTIVITY	.15	° 60	°F

TOOL DATA

NO. PACKERS 2				
SIZE PACKERS 6 3/4				
CONVENTIONAL TEST Yes				
TYPE TOOL	DEPTH	LENGTH	I.D.	O.D.
4 1/2 XH DP		8554	3.8	4.5
4 1/2 XH DC		682	2.3	6.25
Cir.Sub.	9237	1		
3 DC		94		
Shut-in		6		
Sampler		3		
Hyd.		5		
Jars		6		
Rec.		5		
S.J.		2		
Packer	9364	6		
Packer	9370	6		
Shoe				
21' Perf.				
Rec.&Sub.		26		
DRLG. CONT Moranco				
RIG # 3				

SAMPLER REPORT

PRESSURE IN SAMPLER	280	PSI
BHT 138 °F @	9352	F.T.
OIL:	200	CC.
WATER:		CC.
MUD: (Heavy Oil & Gas Cut)	800	CC.
GAS:	4.3	CU.FT.
RESISTIVITY .28 @	60	°F
CHLORIDE	16,000	PPM.
GRAVITY °API @		°F
CAPACITY	1500	

REMARKS: _____

TESTER _____ Glen Hogue, Jr.

APPROVED BY: _____ Gary Butler

COMPANY _____ MURKELL ENERGY CORPORATION
LEASE NAME & NO Geronimo Federal # 2
INTERVAL TESTED 9370 to 9396

COUNTY _____ Lea
STATE _____ New Mexico
FORMATION _____ Bone Springs

DATE _____ NOV 20 1994
TICKET # 6846
TEST # 1