

PARKER & PARSLEY DEVELOPMENT CO.
P. O. BOX 3178
MIDLAND, TEXAS 79702

DRILLING PROGRAM

DATE: 8/4/94

FOR: Contractor & Files

CONTRACTOR: McGee Drlg. Corp.-Rig #2 FIELD: Old Millman Rch(Bone Spring)

LEASE: Arco Federal WELL NO: 2

LOCATION: * 1010' FS & 1980 FWL, Sec. 34, T-19-S, R-28-E, Eddy Co., NM

DIRECTIONS: Go 8 mi. E. from carlsbad on 62/180. Turn L. (N) on CR 242 at mile
marker 44. Go 6 mi. N & W to Oxy plant, turn Right (N) on wide caliche road,
CR 242. Proceed 3 mi. North, turn Left (W) at P&P sign. Go West 2 1/2 mi.
turn L. (S) 1/4 mi.

*SHL: A DEVIATED HOLE WILL BE DIRECTED TO 150' TARGET AT TVD, 660 FS & 1980 FWL
ELEVATIONS: (Surveyor's GL 3295) ACTUAL GL _____ DF _____ KB _____

CASING PROGRAM

CONDUCTOR =	" Hole	Csg @	Depth
SURFACE =	17 1/2" Hole	13 3/8, 48# H-40 STC	Csg @ 450 Depth
PROTECTIVE =	11" Hole	8 5/8", 24# K-55 STC	Csg @ 1000 Depth
PRODUCTION =	7 7/8" Hole	5 1/2, 15.50# K-55 L&STC	Csg @ 6500 Depth

MUD PROGRAM

INTERVALS	TYPE	PROPERTIES	REMARKS
0 - 450	Spud Mud	8.4 - 9.5, 32 - 62 vis	Steel pits
* 450 - 1000	Brine	N/C, paper sweeps *	Reserve pits, lime-pH
1000 - 6000	Fresh Water	N/C, PHB-LCM sweeps *	Outer reserve, caust-pH
6000 0 T.D.	FW Gel - PAC	8.5-8.8, 34-36 vis, 10c.c. W.L.*	Steel pits, caustic-pH

* FW GEL-LCM SWEEPS FOR SEEPAGE & CUTTING³ REMOVAL, AS REQUIRED.

GEOLOGICAL FORMATION	TOPS, INTERVAL DEPTHS	REMARKS
T/Salt	750 - 800	Wash-outs, boulders
B/Salt	900 - 950	
Delaware	3030	Possible wt. increase
Brushy Canyon	3150	due to formation wtr
Bone Spring	4300	
1 - Bone Spring Sand	6210	Pay objective
T.D.	6500 (approx.)	

EVALUATION

DRILLING TIME Geolograph, 0 - TD MUD LOGGING: Suttles Co. - 1000'-T.D.
SAMPLES (Mud-Loggers) 10 ft. TRAILER PHONE: 915/687-3148

OPEN HOLE LOGS:	TYPES RUN	INTERVALS	DETAILED INTERVALS
Compen. Neutron Density	CN-ZDL-Cal-GR	TD - 1000(csg)	All
Dual Induction Lateralog	2-ILL-ML-Cal-GR	TD - csg, GR to surf.	All (pull GR to surf.)

CORES: _____ DST: 1 - Possible in Bone Spring
Halliburton 505/392-6531

MUD COMPANY: West Texas Drlg. Fluids, Inc. (Lovington Stock Plant) 505/396-2959
CEMENTING: Halliburton RIG WATER FW-Double Eagle pipeline
OPEN HOLE LOGGING Atlas Wireline Brine-Jim's Water Srv. 748-1352

RIG SUPERVISOR _____ COMPANY ENGINEER Leslie Anderson
(H) Ph _____ (O) Ph 915/683-4768 (H) Ph _____
(MOBILE): _____ ENGINEER SUPERVISOR Mike Reeves

ADDITIONAL REMARKS: This is a planned, directionally deviated hole w/ a
Surface Hole Location (SHL) 350' North of the desired Bottom Hole Location (BHL)
target area. The target area at the pay, or TVD under the 660' FS & 1980 FWL
target area, will be an orthodromic (standard) location.