



Houston, Texas 77210

CEMENTING LOG

STAGE NO 1, 2, -

Date 6-23-93 District 624 Ticket No 607549
 Company HPA Dev. P.O. N/A
 Lease Navajo AA Well No 3,35
 County San Juan State N.M.
 Location 18 32 N 12 W Field
North Many Rocks - Gallup
 CASING DATA PTA ☒ Squeeze ☐
 Surface ☐ Intermediate ☐ Production ☐ Liner ☐
 Size 9 1/2 Type 7.5 Weight _____ Collar _____

CEMENT DATA
 Spacer Type H₂O - 90 SX Com
 Amt _____ Skis Yield _____ ft /sk Density _____ PPG
 LEAD Pump Time 3 hrs Type 30/30/4
 Excess 0
 Amt 270 Skis Yield 1.41 ft /sk Density 13.0 PPG
 TAIL Pump Time _____ hrs Type _____
 Excess _____
 Amt _____ Skis Yield _____ ft /sk Density _____ PPG
 WATER Lead 6.82 gals/sk Tail _____ gals/sk Total 44 Bbls

Casing Depths: Top _____ Bottom _____
1430 Avg 4 7/8 depth

Pump Trucks Used 1464
 Bulk Equip. 688

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft

CAPACITY FACTORS

Casing: Bbls/Lin. ft. 0.163 Lin. ft./Bbl. 6.154
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Float Equip: Manufacturer N/A
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip _____
 Disp. Fluid Type _____ Amt _____ Bbls Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE Jim & Pat Woolsey

CEMENTER T. Todd Super

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
5:10 A						Tanks Called 6-23-93 Name of Mined Site 6-23-93 Rig Up Safety Meeting #2 Navaho AA Load Hole.
7:00 A						
7:43 A						
9:00 A						
9:30 A	30			1		Load Hole. Cement 91.5X 128 F ³ Displace H ₂ O Shut In
9:43 A	1800		24	23	1.1	
10:26 A	1600		76	2	1.1	
10:23 A	900					
11:23 A	1830			3	3.5	#3 Navaho AA Load Hole Cement 85 SX 120 F ³ Displace H ₂ O Shut In
11:35 A	1600		25	22	4.5	
11:46 A	1300		27	2	1	
11:50	1300					
1:00 P	50			4	1.5	#5 Navaho AA Load hole - Broken Head Brake Cement 94 SX 132.5 F ³ Displace H ₂ O Shut In
1:15 P	30		28	24	1.5	
1:40 P	20		30	2	1.0	
1:45 P	30					
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