



Baroid Drilling Fluids, Inc.



DRILLING MUD REPORT NO. 17

DATE 3-18 1996 DEPTH 6700
SPUD DATE 3-2-96 PRESENT ACTIVITY Drilling

OPERATOR Davis Pet. CONTRACTOR 4 Corners Drilling
REPORT FOR Ken Payne REPORT FOR Bowen Vallejos
WELL NAME AND NO. Angel Eyes #1 FIELD OR BLOCK NO. Belen COUNTY, PARISH OR OFFSHORE AREA Socorro STATE/PROVINCE NM

DRILLING ASSEMBLY 13 3/8 CASING 123 MUD VOLUME 498 bbl 250 m³ CIRCULATION DATA
BIT SIZE 8.125 TYPE SP2F JET SIZE 12.125 SURFACE SET 1623 HOLE 498 PITS 250 PUMP SIZE 6x8 ANNULAR VEL DP 123 DC 202
DRILL PIPE TYPE XH LENGTH INTERMEDIATE TOTAL CIRCULATING VOLUME 748 PUMP MAKE, MODEL Omega 250 ASSUMED EFF 9% CIRCULATION PRESSURE 1500
DRILL PIPE TYPE 3HA LENGTH SET @ INTERMEDIATE IN STORAGE WEIGHT 1666 162 stb/min BOTTOMS UP (min) 74 ±
DRILL COLLAR SIZE 6.5 LENGTH 757 PRODUCTION OR LINER MUD TYPE LEND 6.73 282 Vol/min TOTAL CIRC. TIME (min) 111 ±

MUD PROPERTIES MUD PROPERTY SPECIFICATIONS
Sample From 8:00 AM WEIGHT 8.9-9.0 VISCOSITY 45-50 FILTRATE 6-8
Time Sample Taken 122°
Flowline Temperature 6700
Depth 8.9
Weight 17
Funnel Viscosity 16
Plastic Viscosity 8.14
Yield Point 6.9
Gel Strength (10 sec/10 min) 1
Filtrate API cm³/30 min 4
API/HTHP Filtrate cm³/30 min 96
Cake Thickness API/HTHP 2
Solids Content (% by Vol.) 4
Liquid Content (% by Vol.) Oil/Water 9.0
Sand Content (% by Vol.) 11.3
Methylene Blue Capacity 6800
pH 140
Alkalinity Mud (P_m) ml
Alkalinity Filtrate (P_f/M_f) ml/ml
Alternate Alkalinity Filtrate (P_f/P₂) ml/ml
Chloride, mg/L
Total Hardness as Calcium, mg/L

RECOMMENDED TREATMENT
H4G-200 As Needed for 45-50 v/c.
Soda Ash- 10 sls per Tour
Caustic- 1-2 sls per Tour 9.5-10.0 pH
Tithin- 3 Buckets per Tour
Desco- 4 sls per Tour
Pac-A- 2 sls per Tour 6-8 cc
Water- 10-15 gal per Min.
REMARKS
LCM if Needed for Loss.
Run Solids Equip.
Keep Sand Trap Clean.

PRODUCT UNIT COST	BAROID (BULK)	BAROID (REG)	44G-200	6.21	Soda Ash	11.80	Lime	9.63	Caustic	29.96	E2 Mud	122.41	Bicarb	22.53	H2O2	24.129	C.Fiber	11.32	M.Sol	29.96	T.Tithin	106.05	Desco	64.20	H.Steels	77.27	Engineer	SOLIDS CONTROL EQUIPMENT			
STARTING INVENTORY			150	166	1	69	25	10	41	100	120	24	0	0														SHKR 1	MAKE/ BRAND	SIZE/ SCREENS	HRS
RECEIVED D.T. #																												SHKR 2			
USED LAST 24 HR.			30	8		3	1		3							2												SHKR 3			
COST LAST 24 HR.			186	94		90	122		224							212												SHKR 4			
CUMULATIVE RECEIVED			1002	324	5	105	45	10	70	120	120	52	30	1														DESAND	Rig		
CUMULATIVE USED			932	166	4	39	21	-	32	20	-	30	30	1														M CLNR			
CLOSING INVENTORY			120	158	1	66	24	10	38	100	120	22	0	0														CENT 1			
PRODUCT Est CONC.																												CENT 2			

BAROID REPRESENTATIVE Lean Berg OFFICE/HOME Super P #200 TELEPHONE 864-8188 DAILY COST 1,753.00 CUMULATIVE COST 33,439.00
WAREHOUSE Farmington TELEPHONE 325-1886

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY BAROID DRILLING FLUIDS, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.