



Baroid Drilling Fluids, Inc.



DRILLING MUD REPORT NO. 18

DATE 3-19 1996	DEPTH 6929	☐ ft ☐ m
SPUD DATE 3-2-96	PRESENT ACTIVITY TOH	

OPERATOR Davis Pet	CONTRACTOR 4 Corners Drly	RIG NO. 14
REPORT FOR Ken Payne	REPORT FOR Jim Andes	SECTION, TOWNSHIP, RANGE 19-4N-1E
WELL NAME AND NO. Angel Eyes #1	FIELD OR BLOCK NO. Behen	COUNTY, PARISH OR OFFSHORE AREA Socorro
		STATE/PROVINCE NM

⑥ DRILLING ASSEMBLY		CASING 123	MUD VOLUME ☐ bbl ☐ m ³	CIRCULATION DATA	
BIT SIZE 8.5	TYPE SP2F	JET SIZE 12.5	SURFACE SET 1023	HOLE 515	PITS 250
DRILL PIPE SIZE 4.5	TYPE XH	LENGTH 12.5	INTERMEDIATE SET @	TOTAL CIRCULATING VOLUME 765	
DRILL PIPE SIZE	TYPE	LENGTH 8.4	INTERMEDIATE SET @	IN STORAGE	WEIGHT
DRILL COLLAR SIZE 6.5	LENGTH 7.5	PRODUCTION OR LINER SET @	MUD TYPE LSIWD		
				PUMP SIZE 6X8	ANNULAR VEL. DP 123
				PUMP MAKE, MODEL Omega 750	ASSUMED EFF 75%
				vol/stk 1.666	stk/min 102
					CIRCULATION PRESSURE 1700
					BOTTOMS UP (min) 76 ±
					TOTAL CIRC. TIME (min) 114 ±

Sample From		☐ F.L. ☐ PIT		WEIGHT 80.9.2		VISCOSITY 45-50		FILTRATE 6-8	
Time Sample Taken 8:30 AM		☐ F.L. ☐ PIT		BY AUTHORITY ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR ☐ OPERATOR'S REPRESENTATIVE ☐ OTHER					
Flowline Temperature 130°		☐ °F ☐ °C		RECOMMENDED TOUR TREATMENT					
Depth 6929		☐ ft ☐ m		HYG-200 As Needed for 45-50 vis.					
Weight 8.9		☐ lb/gal ☐ lb/cu. ft. ☐ Sp.G. ☐ kg/m ³		Soda Ash 12 slcs per Tour					
Funnel Viscosity 51		☐ sec/qt API @ ☐ °F ☐ sec/L @ ☐ °C		Caustic - 2 slcs per Tour 9.5-10.0 PH					
Plastic Viscosity 15		cP @ ☐ °F ☐ °C		Desco - 6 slcs per Tour					
Yield Point 17		☐ lb/100 ft ² ☐ Pa		Pac A - 2 slcs per Tour for 6-8 sl					
Gel Strength (10 sec/10 min) 8.15		☐ lb/100 ft ² ☐ Pa		Water - 6-8 gal per Min 9.0-9.2					
Filtrate API cm ³ /30 min 8.9				REMARKS					
API/HTHP Filtrate cm ³ /30 min		@ ☐ °F @ ☐ °C		LCM if Needed					
Cake Thickness API/HTHP 3		☐ 32nd in. ☐ mm		Keep Sand Trap Clean					
Solids Content (% by Vol.) 4		☐ calculated ☐ retort		Run Desilter 6 hrs per Tour					
Liquid Content (% by Vol.) Oil/Water 96									
Sand Content (% by Vol.) 11									
Methylene Blue Capacity 9.0		☐ lb/bbl equiv. ☐ cm ³ /cm ³ mud							
pH 9.0		☐ Strip ☐ Meter @ ☐ °F ☐ °C							
Alkalinity Mud (P _m) ml									
Alkalinity Filtrate (P _f /M _f) ml/ml 11.25									
Alternate Alkalinity Filtrate (P ₁ /P ₂) ml/ml									
Chloride, mg/L 13100									
Total Hardness as Calcium, mg/L 480									

PRODUCT UNIT COST	BAROID (BULK)	BAROID (REG)	HYG-200	Soda Ash	Lime	Caustic	EZ Mud	Desco	Pac A	Caustic	M. Seal	T. Thin	Desco	A. Stone	Trucking	Engineer	SOLIDS CONTROL EQUIPMENT			
			158	11.80	9.63	29.96	122.41	22.53	241.29	11.32	29.96	106.05	64.20	77.27			MAKE/ BRAND	SIZE/ SCREENS	HRS	
STARTING INVENTORY			158			66	24	10	38	100	120	22	0	0			SHKR 1	Brady		
RECEIVED			420						20				80	1			SHKR 2			
D.T. #																	SHKR 3			
USED LAST 24 HR.			20	11		5			8			6	6				SHKR 4			
COST LAST 24 HR.			124	130		150			1930			636	385		810	325	DESAND			
CUMULATIVE RECEIVED					5		10										DESILT	A.7		
CUMULATIVE USED					4												M CLNR			
CLOSING INVENTORY			540	147	1	61	24	10		100	120	16	74	1			CENT 1			
PRODUCT ☐ lb/bbl																	CENT 2			
Est CONC. ☐ kg/m ³																				

BAROID REPRESENTATIVE	OFFICE/HOME Super 8 #200	TELEPHONE 864-8188	DAILY COST \$4490.00	CUMULATIVE COST 37,929.00
Leean Berg	WAREHOUSE Farmington	TELEPHONE 325-1896		

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.

BA-1905-E2 10/1/89

THIS COPY TO CH CO