



Baroid Drilling Fluids, Inc.



DRILLING MUD REPORT NO. 19

DATE 3-20-1996	DEPTH 7011	☐ ft ☐ m
SPUD DATE 3-2-96	PRESENT ACTIVITY Drilling	

OPERATOR Davis Pet.	CONTRACTOR 4 Corners Drilling	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. Belen	COUNTY, PARISH OR OFFSHORE AREA Socorro	STATE/PROVINCE NM
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⑦ DRILLING ASSEMBLY		13 3/8 CASING 123	MUD VOLUME ☐ bbl ☐ m³	CIRCULATION DATA	
BIT SIZE 8.125	TYPE MFSF	JET SIZE 12.138	SET @ 1023	HOLE 520	PITS 250
DRILL PIPE SIZE 4.5	TYPE X4	LENGTH	INTERMEDIATE SET @	TOTAL CIRCULATING VOLUME 770	PUMP SIZE 6 X 8
DRILL PIPE SIZE	TYPE	LENGTH	INTERMEDIATE SET @	IN STORAGE	WEIGHT
DRILL COLLAR SIZE 6.5	LENGTH 754	PRODUCTION OR LINER SET @	MUD TYPE LEND	PUMP MAKE, MODEL Omega 750	ASSUMED EFF 75%
				vol/stk 1066	stk/min 102
				6.73	282 vol/min
					CIRCULATION PRESSURE 1700
					BOTTOMS UP (min) 77 ±
					TOTAL CIRC. TIME (min) 114 ±

Sample From		MUD PROPERTIES			MUD PROPERTY SPECIFICATIONS		
Time Sample Taken 8:00 AM		☐ F.L. ☐ PIT	☐ F.L. ☐ PIT	☐ F.L. ☐ PIT	WEIGHT 9.1-9.2	VISCOSITY 45-50	FILTRATE 6-8
Flowline Temperature ☐ °F ☐ °C 129°					BY AUTHORITY ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR ☐ OPERATOR'S REPRESENTATIVE ☐ OTHER		
Depth ☐ ft ☐ m 7011					RECOMMENDED TREATMENT		
Weight ☐ lb/gal ☐ lb/cu. ft. ☐ Sp.G. ☐ kg/m³ 9.1					HYG 200 for 45-50 vis.		
Funnel Viscosity ☐ sec/qt API @ ☐ °F ☐ sec/L @ ☐ °C 47					Soda Ash - 15 slus per Tour		
Plastic Viscosity cP @ ☐ °F ☐ °C 15					Caustic - 2 slus per Tour 9.5-100 MH		
Yield Point ☐ lb/100 ft² ☐ Pa 16					Pac R - 2-3 slus for 6-8 sec		
Gel Strength (10 sec/10 min) ☐ lb/100 ft² ☐ Pa 5 / 12					Desco - 4 slus per Tour		
Filtrate API cm³/30 min 7.8					Water - 6-8 gal per Min		
API/HTHP Filtrate cm³/30 min @ ☐ °F @ ☐ °C -					REMARKS		
Cake Thickness API/HTHP ☐ 32nd in. ☐ mm 2 /					LCM if Needed for Loss.		
Solids Content (% by Vol.) ☐ calculated ☐ retort 5.2					Run Solids Equip.		
Liquid Content (% by Vol.) Oil/Water - 1948					Keep Sand Trap Clean.		
Sand Content (% by Vol.) Tr							
Methylene Blue Capacity ☐ lb/bbl equiv. ☐ cm³/cm³ mud							
pH ☐ Strip ☐ Meter @ ☐ °F ☐ °C 10.5							
Alkalinity Mud (P _m) ml							
Alkalinity Filtrate (P _f /M _f) ml/ml 135, 65							
Alternate Alkalinity Filtrate (P _f /P ₂) ml/ml							
Chloride, mg/L 12,000							
Total Hardness as Calcium, mg/L 200							

PRODUCT UNIT COST	BAROID (BULK)	BAROID (REG)	HYG-200	AQUAGEL	Soda Ash	Bicarb	Caustic	E2 Mud	Pac R	C.F. ber	M. Seal	Desco	4.5 Strake	Lime	Engineer	SOLIDS CONTROL EQUIPMENT			
			540	147	10	61	24	50	100	120	16	74	1	1		SHKR 1	Brandt		
STARTING INVENTORY RECEIVED D.T. #																SHKR 2			
USED LAST 24 HR.			45	29		3		8				10	1			SHKR 3			
COST LAST 24 HR.			279	342		90		1930				642			325	SHKR 4			
CUMULATIVE RECEIVED			1472	324	10	90		90	120	120	52	180	2	5		DESAND			
CUMULATIVE USED			977	208	-	32		48	20	-	36	86	2	4		DESILT	Rig		
CLOSING INVENTORY			495	118	10	58	24	42	100	120	16	64	0	1		M CLNR			
PRODUCT ☐ lb/bbl ☐ kg/m³																CENT 1			
Est CONC.																CENT 2			

BAROID REPRESENTATIVE Leon Berg	OFFICE/HOME Super 8 #200	TELEPHONE 864-8188	DAILY COST \$3608.00	CUMULATIVE COST \$41,537.00
	WAREHOUSE Farmington	TELEPHONE 325-1896		

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