

Baroid Drilling Fluids, Inc.



DRILLING MUD REPORT NO.

15

DATE <u>3-16</u>	19 <u>96</u>	DEPTH <u>6372</u>	☐ ft ☐ m
SPUD DATE <u>3-2-96</u>		PRESENT ACTIVITY <u>Drilling</u>	

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

5 DRILLING ASSEMBLY			13 3/8 CASING 123	MUD VOLUME ☐ bbl ☐ m³		CIRCULATION DATA			
BIT SIZE 8.125	TYPE S82F	JET SIZE 12, 13, 0	SURFACE 90/8 SET @ 1023	HOLE 473	PITS 250	PUMP SIZE 6X8		ANNULAR VEL. DP 125	☐ ft/min ☐ m/min DC 202
DRILL PIPE SIZE 4.5	TYPE XH	LENGTH	INTERMEDIATE SET @	TOTAL CIRCULATING VOLUME 72.3		PUMP MAKE, MODEL Omaga 750	ASSUMED EFF 95%	CIRCULATION PRESSURE 1700	☐ psi ☐ kPa
DRILL PIPE SIZE	TYPE	LENGTH BHA	INTERMEDIATE SET @	IN STORAGE	WEIGHT	vol/stk 1066	stk/min 102	BOTTOMS UP (min) 70 E	
DRILL COLLAR SIZE 6.8		LENGTH 809	PRODUCTION OR LINER SET @	MUD TYPE LSND		6.23	252 vol/min	TOTAL CIRC. TIME (min) 107 E	

		MUD PROPERTIES			MUD PROPERTY SPECIFICATIONS		
Sample From		☒ F.L. ☐ PIT	☐ F.L. ☐ PIT	☐ F.L. ☐ PIT	WEIGHT 8.9-9.0	VISCOSITY 45-50	FILTRATE 6-8 cc
Time Sample Taken		8:30 AM			BY AUTHORITY ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR ☐ OPERATOR'S REPRESENTATIVE ☐ OTHER		
Flowline Temperature	☐ °F ☐ °C	123			RECOMMENDED TOUR TREATMENT		
Depth	☐ ft ☐ m	6372			HYG - As Needed for 45-50 v/s. Soda Ash - 8 sks per tour Caustic - 1-2 sks for 9.5-10.0 pH EZ Mud - 2 Buckets per tour Therma thin - 2 Buckets per tour Pac R - 2 sks per tour 6-8 cc Water - 10-15 gal per min LCM if needed for loss. Run Solids Equip. Keep Sand Trap Clean.		
Weight	☐ lb/gal ☐ lb/cu. ft. ☐ Sp.G. ☐ kg/m ³	8.9					
Funnel Viscosity	☐ sec/qt API @ ____ °F ☐ sec/L @ ____ °C	50	/	/			
Plastic Viscosity	cP @ ____ °F ____ °C	18					
Yield Point	☐ lb/100 ft ² ☐ Pa	12					
Gel Strength (10 sec/10 min)	☐ lb/100 ft ² ☐ Pa	3 / 8	/	/			
Filtrate API cm ³ /30 min		8.0					
API/HTHP Filtrate cm ³ /30 min	@ ____ °F @ ____ °C	-					
Cake Thickness API/HTHP	☐ 32nd in. ☐ mm	2	/	/			
Solids Content (% by Vol.)	☐ calculated ☐ retort	4					
Liquid Content (% by Vol.) Oil/Water		196	/	/			
Sand Content (% by Vol.)		TR			REMARKS		
Methylene Blue Capacity	☐ lb/bbl equiv. ☐ cm ³ /cm ³ mud				LCM if needed for loss. Run Solids Equip. Keep Sand Trap Clean.		
pH	☐ Strip ☐ Meter @ ____ °F ____ °C	9.5					
Alkalinity Mud (P _m) ml							
Alkalinity Filtrate (P _f /M _f) ml/ml		125.5	/	/			
Alternate Alkalinity Filtrate (P ₁ /P ₂) ml/ml		/	/	/			
Chloride, mg/L		2700					
Total Hardness as Calcium, mg/L		120					

PRODUCT UNIT COST	BAROID (BULK)	BAROID (REG)	SOLIDS CONTROL EQUIPMENT																			
				MAKE/ BRAND	SIZE/ SCREENS	HRS																
STARTING INVENTORY			398	198	1	75	31	10	49	100	120	31	8	0			SHKR 1	Brandt				
RECEIVED																	SHKR 2					
D.T. #																	SHKR 3					
USED LAST 24 HR.			115	18		3	4		3			4	4				SHKR 4					
COST LAST 24 HR.			714	212		90	490		724			524	257		325		DESAND					
CUMULATIVE RECEIVED			1052	324	5	105	45	10	70	120	120	52	30	1			DESILT	Rip				
CUMULATIVE USED			772	144	4	33	18	-	24	10	-	25	26	1			M CLNR					
CLOSING INVENTORY			280	180	1	72	27	10	46	100	120	27	4	0			CENT 1					
PRODUCT ☐ lb/bbl Est CONC. ☐ kg/m ³																	CENT 2					
BAROID REPRESENTATIVE			OFFICE/HOME Super 8 #200							TELEPHONE 864-8188							DAILY COST \$ 3236. ⁰⁰			CUMULATIVE COST \$ 28,269. ⁰⁰		
Leon Berg			WAREHOUSE Farmington							TELEPHONE 325-1896												

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