

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 Drilling</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			RECOMMENDED TOUR TREATMENT					
Depth	☐ ft ☐ m			HYG - As Needed for 45-50 v/s.					
Weight	☐ lb/gal ☐ lb/cu. ft. ☐ Sp.G. ☐ kg/m ³			Soda Ash - 8 sks per tour					
Funnel Viscosity	☐ sec/qt API @ ____ °F ☐ sec/L @ ____ °C			Caustic - 1-2 sks for 9.5-10.0 pH					
Plastic Viscosity	cP @ ____ °F ☐ °F ☐ °C			EZ Mud - 2 Buckets per tour					
Yield Point	☐ lb/100 ft ² ☐ Pa			Therma thin - 2 Buckets per tour					
Gel Strength (10 sec/10 min)	☐ lb/100 ft ² ☐ Pa			Pac R - 2 sks per tour 6-8 cc					
Filtrate API cm ³ /30 min				Water - 10-15 gal per Min					
API/HTHP Filtrate cm ³ /30 min	@ ____ °F @ ____ °C			REMARKS					
Cake Thickness API/HTHP	☐ 32nd in. ☐ mm			Lc M if Needed for Zoss.					
Solids Content (% by Vol.)	☐ calculated ☐ retort			Run Solids Equip.					
Liquid Content (% by Vol.) Oil/Water				Keep Sand Trap Clean.					
Sand Content (% by Vol.)									
Methylene Blue Capacity	☐ lb/bbl equiv. ☐ cm ³ /cm ³ mud								
pH	☐ Strip ☐ Meter @ ____ °F ☐ °C								
Alkalinity Mud (P _m) ml									
Alkalinity Filtrate (P _f /M _f) ml/ml									
Alternate Alkalinity Filtrate (P ₁ /P ₂) ml/ml									
Chloride, mg/L									
Total Hardness as Calcium, mg/L									

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				TELEPHONE				DAILY COST				CUMULATIVE COST				
Leon Berg			Super 8 #200 Farmington				864-8188 325-1896				\$ 3236. ⁰⁰				\$ 28,269. ⁰⁰				

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.

HR 1905 F2 10:1/89