



Baroid Drilling Fluids, Inc.



DRILLING MUD REPORT NO. 16

DATE 3-17 1996	DEPTH 6607 ☐ ft ☐ m
SPUD DATE 3-2-96	PRESENT ACTIVITY Run Survey

OPERATOR Davis Pet	CONTRACTOR 4 Corners Drly	RIG NO. 14
REPORT FOR Ken Payne	REPORT FOR Bowen Vallejos	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

DRILLING ASSEMBLY		CASING 123		MUD VOLUME ☐ bbl ☐ m ³		CIRCULATION DATA	
BIT SIZE 8.75	TYPE S82F	JET SIZE 13, 13, 0	SURFACE SET @ 958	HOLE 490	PITS 250	PUMP SIZE 6 X 8	ANNUAL VEL. DP 123 ☐ ft/min ☐ m/min
DRILL PIPE SIZE 4.5	TYPE X14	LENGTH	INTERMEDIATE SET @	TOTAL CIRCULATING VOLUME 740		PUMP MAKE, MODEL Omega 750	ASSUMED EFF % 95
DRILL PIPE SIZE	TYPE	LENGTH	INTERMEDIATE SET @	IN STORAGE	WEIGHT	vol/stk .066	STK/min 102
DRILL COLLAR SIZE 6.5	LENGTH 809	PRODUCTION OR LINER SET @		MUD TYPE LSND		6.73	282 vol/min
				CIRCULATION PRESSURE 1800 ☐ psi ☐ kPa			
				BOTTOMS UP (min) 73			
				TOTAL CIRC. TIME (min) 110 ±			

MUD PROPERTIES		MUD PROPERTY SPECIFICATIONS	
Sample From	☒ F.L. ☐ PIT	WEIGHT 8.9-9.0	VISCOSITY 45-50
Time Sample Taken 8:00 AM		FILTRATE 6-8	
Flowline Temperature ☐ °F ☐ °C 124		BY AUTHORITY ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR ☐ OPERATOR'S REPRESENTATIVE ☐ OTHER	
Depth ☐ ft ☐ m 6607		RECOMMENDED TOUR TREATMENT	
Weight ☐ lb/gal ☐ lb/cu. ft. ☐ Sp.G. ☐ kg/m ³ 8.9		H46-200 - As Needed for 45-50 o/w	
Funnel Viscosity ☐ sec/qt API @ ☐ °F ☐ sec/L @ ☐ °C 59		Soda Ash - 8 sks per tour	
Plastic Viscosity cP @ ☐ °F ☐ °C 22		Caustic - 1-2 o/w for 9.5-10.0 pH.	
Yield Point ☐ lb/100 ft ² ☐ Pa 14		EZ Mud - 1 Bucket per tour	
Gel Strength (10 sec/10 min) ☐ lb/100 ft ² ☐ Pa 5/10		Ti. thin - 2 Buckets per tour	
Filtrate API cm ³ /30 min 7.8		Rec R - 2 sks per tour for 6-8 cc	
API/HTHP Filtrate cm ³ /30 min @ ☐ °F @ ☐ °C		Water 10-15 gal per min.	
Cake Thickness API/HTHP ☐ 32nd in. ☐ mm 2		REMARKS	
Solids Content (% by Vol.) ☐ calculated ☐ retort 4		Run Survey & TOH	
Liquid Content (% by Vol.) Oil/Water 196		After Trip Jet Sand Trap	
Sand Content (% by Vol.) Tr		Run Solids Equip	
Methylene Blue Capacity ☐ lb/bbl equiv. ☐ cm ³ /cm ³ mud			
pH ☒ Strip ☐ Meter @ ☐ °F ☐ °C 10.0			
Alkalinity Mud (P _m) ml			
Alkalinity Filtrate (P _f /M _f) ml/ml 135.8			
Alternate Alkalinity Filtrate (P ₁ /P ₂) ml/ml			
Chloride, mg/L 2600			
Total Hardness as Calcium, mg/L 120			

PRODUCT UNIT COST	BAROID (BULK)	BAROID (REG)	HYG-200 AQUEL 6.21	Soda Ash 11.80	Lime 9.63	Caustic 29.96	EZ Mud 123.41	Bicarb 24.53	Pac R 241.29	C. Fiber 11.32	M. Seal 29.86	T. Thin 106.01	Desco 64.20	A. Sinter 77.27	Engineer	SOLIDS CONTROL EQUIPMENT			
STARTING INVENTORY			280	180	1	72	27	10	46	100	120	27	4	0		SHKR 1	Brandt		
RECEIVED D.T. #																SHKR 2			
USED LAST 24 HR.			130	14		3	2		5			3	4			SHKR 3			
COST LAST 24 HR.			807	169		90	245		1206			318	257		325	SHKR 4			
CUMULATIVE RECEIVED			1052	324	5	105	415	10	70	120	120	52	30	1		DESAND			
CUMULATIVE USED			902	158	4	36	20	-	29	20	-	28	30	1		DESILT	Rig		
CLOSING INVENTORY			150	166	1	69	25	10	41	100	120	24	0			M CLNR			
PRODUCT ☐ lb/bbl ☐ kg/m ³														0		CENT 1			
Est CONC. ☐ kg/m ³																CENT 2			
BAROID REPRESENTATIVE Leon Berg		OFFICE/HOME Super 8 #200		TELEPHONE 864-8188		DAILY COST \$3417.00		CUMULATIVE COST \$31,686.00											
		WAREHOUSE Farmington		TELEPHONE 325-1896															

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