



P. O. Box 108
 GREAT BEND, KANSAS 67530
 (316) 792-2133

7-185-15 W
 890' FNL
 850' FEL

DRILLING MUD REPORT

REPORT NO. 3

DAVIS MUD & CHEMICAL, INC.

op for SW-NE-NE

DATE	3/3	1983	DEPTH	2940
API WELL NO.		STATE	COUNTY	WELL
				S/T

OPERATOR Wiley Ash	CONTRACTOR Woodman-Tannith	RIG NO. 1
ADDRESS Rig	ADDRESS Rig	SPUD DATE 3/30/83
REPORT FOR MR. Carter	REPORT FOR MR. Zimmerman	SECTION, TOWNSHIP, RANGE 9-18-13
WELL NAME AND NO. Popp #2	FIELD OR BLOCK NO.	COUNTY AREA Barton
		STATE Ks.

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
PRES. ACTIVITY CFS	85/8	SURFACE IN. AT 7 1/3	FT.	MOLE 190	PITS 250	PUMP SIZE 6 1/4	X 14	IN. 14	ANNULAR VEL. (FT./MIN.) 224
BIT SIZE (IN.) 7/8	ND T	INTERMEDIATE IN. AT /	FT.	TOTAL CIRCULATING VOLUME 440		PUMP MAKE		OPPOSITE DP 406	
DRILL PIPE SIZE 4 1/2	TYPE	PRODUCTION OR LINER IN. AT /		IN STORAGE	WEIGHT	MODEL BBL./STROKE 1151	STROKE/MIN 60	CIRCULATING PRESSURE PSI 14	
DRILL COLLAR SIZE 6 1/4	LENGTH	MUD TYPE Starch				BBL./MIN. 9.06	STROKE/MIN. 60		BOTTOMS UP (MIN.) 49

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit		MUD PROPERTIES	
Flowline Temperature	F	PM	
Time Sample Taken		4:00	
Depth (ft.)		2940	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		8.9	
Mud Gradient (psi/ft.)		4.63	
Funnel Viscosity (sec./qt.) API at _____ °F		35	
Plastic Viscosity cp at _____ °F		8	
Yield Point (lb./100 sq. ft.)		11	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		7/13	/ /
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter		6.2	
Filtrate API (ml./30 min.)		40.0+	
API HP-HT Filtrate (ml./30 min.) _____ °F			
Cake Thickness 32nd in. API <input type="checkbox"/> HP — HT <input type="checkbox"/>		5/32	
Alkalinity, Mud (Pm)	Res	1.0	
Alkalinity, Filtrate (P _f /M _f)		X	/ /
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg		20,000	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		404	
Sand Content (% by Vol.)		72	
Solids Content (% by Vol.)			
Oil Content (% by Vol.)		/	
Water Content (% by Vol.)			
LCM, #/bbl		8.0	

EQUIPMENT			
SIZE	HRS/TOUR	SIZE	HRS TOUR
Centrifuge		Desilter	
Degasser		Shaker	
Desander		Other	
DAILY COST 1571.38		CUMULATIVE COST 3943.38	
MUD PROPERTIES SPECIFICATIONS			
WEIGHT 9.8-10.0	VISCOSITY 42-45	FILTRATE 12-15 cc	
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			

- RECOMMENDED TOUR TREATMENT**
- Maintain viscosity @ 42-45
 - sec/qt w/ Salt Mud as needed
 -
 - let wt. build to 9.8-10.0 ppg
 -
 - Maintain 3-5 ppb HCM w/
 - Hulls, Multi Seal & Paper
 -
 - Treat system w/ 30sx
 - Starch additional tonight
 - Watch pit levels carefully
 - Go in hole slowly w/ tools

REMARKS:
 Mixed: 6sx Davis Seal
 40sx Starch 2sx Multi Seal
 2sx Pres
 13sx Salt Mud
 2sx Hulls
 4sx Cedar

ENGINEER Steve West for Steve Ross	HOME ADDRESS Gt Bend	TELEPHONE 792-5181
	WAREHOUSE LOCATION ✓	TELEPHONE 792-2133

CONTRACTOR



P. O. Box 108
 GREAT BEND, KANSAS 67530
 (316) 792-1751

DAVIS MUD & CHEMICAL, INC.

DRILLING MUD REPORT

REPORT NO.

DATE	4/3 83	DEPTH	3000
API WELL NO.	STATE	COUNTY	WELL
			S/T

OPERATOR	WILEY ASH	CONTRACTOR	WOODMAN, LANNITHI	RIG NO.	I
ADDRESS	Rio	ADDRESS	Rio	SPUD DATE	3/30/83
REPORT FOR MR.	CARTEK	REPORT FOR MR.	E. Z.	SECTION, TOWNSHIP, RANGE	9 18s 13w
WELL NAME AND NO.	PODP #2	FIELD OR BLOCK NO.		COUNTY AREA	BARTON
				STATE	Ks.

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY	DRIG.	SURFACE	8 5/8	HOLE	300	PUMP SIZE	6" H
BIT SIZE (IN.)	1 1/8	IN. AT	143	PITS		IN.	14
DRILL PIPE SIZE	4 1/2	INTERMEDIATE	X	TOTAL CIRCULATING VOLUME		ANNULAR VEL. (FT./MIN.)	234
DRILL COLLAR SIZE	6" H	IN. AT		PUMP MAKE		OPPOSITE DP	406
		PRODUCTION OR LINER		MODEL		OPPOSITE COLLAR	
		IN. AT		BBL./STROKE	.151	STROKE/MIN	60
				CIRCULATING PRESSURE PSI			
		MUD TYPE	STARCH	BBL./MIN	9.06	BOTTOMS UP (MIN.)	
				SYSTEM TOTAL (MIN.)			

MUD PROPERTIES	
Time Sample Taken	8:30 / 10:00
Depth (ft)	3000 / 2059
Weight (ppg) (lb./cu. ft.)	8.6 / 8.6
Mud Gradient (psi/ft.)	.477 / .471
Funnel Viscosity (sec./qt.) API at _____ °F	48 / 43
Plastic Viscosity cp at _____ °F	10 / 9
Yield Point (lb./100 sq. ft.)	30 / 18
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	14/24 / 12/19
pH (Strip / Meter)	.62 / .62
Filtrate API (ml./30 min.)	36 / 34
API HP-HT Filtrate (ml./30 min.) _____ °F	✓ / ✓
Cake Thickness 32nd in. API (HP - HT)	3 / 3
Alkalinity, Mud (Pm)	✓ / ✓
Alkalinity, Filtrate (Pf/Mf)	✓ / ✓
Salt (ppm) Chloride (ppm)	20,000 / 21,000
Calcium (ppm) Gyp (ppb)	Hv4 / Hv4
Sand Content (% by Vol.)	TR / TR
Solids Content (% by Vol.)	.8 / .8
Oil Content (% by Vol.)	✓ / ✓
Water Content (% by Vol.)	99.2 / 99.2
LCM, #/bbl	8# / 8.5#

EQUIPMENT			
SIZE	HRS/TOUR	SIZE	HRS TOUR
Centrifuge		Desilter	
Degasser		Shaker	
Desander		Other	
DAILY COST	\$ 1511.38	CUMULATIVE COST	\$ 3943.38

MUD PROPERTIES SPECIFICATIONS		
WEIGHT	VISCOSITY	FILTRATE
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		
RECOMMENDED TOUR TREATMENT		
<input checked="" type="checkbox"/> MAINTAIN VISCOSITY @ 42-45 <input type="checkbox"/> SEC/QT. W/ SALT MUD. <input type="checkbox"/> <input checked="" type="checkbox"/> RUN WATER ONLY IF <input type="checkbox"/> NEEDED TO MAINTAIN VOLUME. <input type="checkbox"/> <input checked="" type="checkbox"/> ADD 25 SX. STARCH NOW. <input type="checkbox"/> TO PUT WATER LOSS @ 10-12cc.		

REMARKS: KEEP HOLE FULL ALL TIMES. / DO NOT CHASE PIPE ON TRIPS.

MAINTAIN 6-8# BBL L.C.M. / KEEP PUMP PRES. @ 500-600#.

/ MAKE ALL TRIPS SLOWLY AS TO NOT SWAB HOLE.

ENGINEER	Steve Ross	HOME ADDRESS	G. B.	TELEPHONE	713-9012
		WAREHOUSE LOCATION	G. B.	TELEPHONE	792-1151

CONTRACTOR



P. O. Box 108
 GREAT BEND, KANSAS 67530
 (316) 792-2133

DRILLING MUD REPORT

REPORT NO. _____

DAVIS MUD & CHEMICAL, INC.

DATE	11-4	19	83	DEPTH	3185
API WELL NO.		STATE	COUNTY	WELL	S/T

OPERATOR	WILBY ASH	CONTRACTOR	WOODMAN-TANNIT	RIG NO.	I
ADDRESS	Rio	ADDRESS	Rio	SPUD DATE	3-30-83
REPORT FOR MR.	CARTER	REPORT FOR MR.	E. Z.	SECTION, TOWNSHIP, RANGE	9 18s 13w

WELL NAME AND NO.	PODD #2	FIELD OR BLOCK NO.		COUNTY AREA	BARTON	STATE	Ks
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OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRES. ACTIVITY	LOST REEL	SURFACE	743	HOLES	300	PUMP SIZE	6 1/4 x 7 1/4
BIT SIZE (IN)	1 7/8	IN. AT		PITS		ANNULAR VEL. (FT./MIN.)	224
NO.		INTERMEDIATE		TOTAL CIRCULATING VOLUME		OPPOSITE DP	406
DRILL PIPE SIZE	2 1/2	IN. AT		PUMP MAKE		OPPOSITE COLLAR	
TYPE		PRODUCTION OR LINER		MODEL		CIRCULATING PRESSURE PSI	
DRILL COLLAR SIZE	6 1/4	IN. AT		BBL./STROKE	.151	STROKE/MIN	60
LENGTH				IN STORAGE		SYSTEM TOTAL (MIN)	
		MUD TYPE	STARCH	WEIGHT		BBL./MIN	9.06

MUD PROPERTIES			EQUIPMENT			
Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit		P.M.	SIZE	HRS/TOUR	SIZE	HRS TOUR
Flowline Temperature	F		Centrifuge		Desilter	
Time Sample Taken		11.00	De-gasser		Shaker	
Depth (ft)		3185	Desander		Other	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)		8.5	DAILY COST		CUMULATIVE COST	
Mud Gradient (psi/ft.)		4.72	\$ 1065.25		\$ 7443.53	
Funnel Viscosity (sec./qt.) API at _____ °F		39	MUD PROPERTIES SPECIFICATIONS			
Plastic Viscosity cp at _____ °F		10	WEIGHT	38-40	FILTRATE	N/C
Yield Point (lb./100 sq. ft.)		10	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR			
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.		4/6	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER			
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		6.2	RECOMMENDED TOUR TREATMENT			
Filtrate API (ml./30 min.)		N/C	<input checked="" type="checkbox"/> MAINTAIN VISCOSITY @ 38-40			
API HP-HT Filtrate (ml./30 min.) _____ °F		-	<input type="checkbox"/> SEC/QT. W/ SALT MUD.			
Cake Thickness 32nd in. API <input type="checkbox"/> HP - HT <input type="checkbox"/>		-	<input checked="" type="checkbox"/> DO NOT WORRY ABOUT			
Alkalinity, Mud (Pm)		-	<input type="checkbox"/> WATER LOSS RIGHT NOW.			
Alkalinity, Filtrate (P _f /M _f)		7	<input checked="" type="checkbox"/> RUN WATER ONLY TO			
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> gpg		8,000	<input type="checkbox"/> MAINTAIN CURRENT PIT			
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		-	VOLUME.			
Sand Content (% by Vol.)		-				
Solids Content (% by Vol.)		6				
Oil Content (% by Vol.)		✓				
Water Content (% by Vol.)		99.4				
LCM, #/bbl		8#				

REMARKS:

4-3-83 / KEEP HOLE FULL ON TRIPS.

35 S. MUD 3 CEDAR / MAINTAIN L.C.M. @ 8-10#/BBL

12 HULLS 4 WALNUT SHELLS /

9 MULTI-SEAL 1 MUD SEAL /

15 STARCH / PUMP PRESS. @ 500-600#.

ENGINEER	Steve Ross	HOME ADDRESS	G.B	TELEPHONE	793-9015
		WAREHOUSE LOCATION	G.B	TELEPHONE	793-1751

CONTRACTOR



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DRILLING MUD REPORT

REPORT NO.

DAVIS MUD & CHEMICAL, INC.

DATE 4/4 19 83 DEPTH 3185

API WELL NO.	STATE	COUNTY	WELL	S/T

OPERATOR <u>WILEY ASH</u>	CONTRACTOR <u>WOODMAN-IANNITTI</u>	RIG NO. <u>I</u>
ADDRESS <u>Rio</u>	ADDRESS <u>Rio</u>	SPUD DATE <u>3/30/83</u>
REPORT FOR MR. <u>CARTER</u>	REPORT FOR MR. <u>E. Z.</u>	SECTION, TOWNSHIP, RANGE <u>9 18s 15w</u>
WELL NAME AND NO. <u>POPP # 2</u>	FIELD OR BLOCK NO.	COUNTY AREA <u>BARTON</u>
		STATE <u>Ks.</u>

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY <u>SHORT TRIP.</u>	<u>8 5/8</u>	SURFACE <u>4 1/2</u>	FT.	HOLE <u>168</u>	PIPS <u>300</u>	PUMP SIZE <u>6 1/4</u>	X IN <u>1 1/4</u>
BIT SIZE (IN.) <u>4 1/8</u>	NO.	INTERMEDIATE <u>X</u>	FT.	TOTAL CIRCULATING VOLUME <u>468</u>		PUMP MAKE	ANNULAR VEL. (FT./MIN.) <u>224</u>
DRILL PIPE SIZE <u>4 1/2</u>	TYPE	PRODUCTION OR LINER	FT.	IN STORAGE <u>✓</u>	WEIGHT <u>✓</u>	MODEL <u>.151</u>	OPPOSITE DP <u>406</u>
DRILL COLLAR SIZE <u>6 1/4</u>	LENGTH	MUD TYPE <u>STARCH</u>	FT.	BBL./STROKE <u>.151</u>	STROKE/MIN <u>60</u>	CIRCULATING PRESSURE PSI <u>18</u>	OPPOSITE COLLAR
				BBL./MIN <u>9.06</u>		BOTTOMS UP (MIN) <u>18</u>	
						SYSTEM TOTAL (MIN) <u>52</u>	

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	
	Flowline Temperature	F
Time Sample Taken	<u>8:00</u>	
Depth (ft.)	<u>3185</u>	
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	<u>8.6</u>	
Mud Gradient (psi/ft.)	<u>.411</u>	
Funnel Viscosity (sec./qt.) API at _____ °F	<u>38</u>	
Plastic Viscosity cp at _____ °F	<u>8</u>	
Yield Point (lb./100 sq. ft.)	<u>20</u>	
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	<u>11/31</u>	/ /
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	<u>6.2</u>	
Filtrate API (ml./30 min.)	<u>2H</u>	
API HP-HT Filtrate (ml./30 min.) _____ °F	<u>—</u>	
Cake Thickness 32nd in. API <input type="checkbox"/> HP — HT <input type="checkbox"/>	<u>2.5</u>	
Alkalinity, Mud (Pm)	<u>✓</u>	
Alkalinity, Filtrate (Pf/Mf)	<u>✓/✓</u>	/ /
Salt <input type="checkbox"/> ppm <input type="checkbox"/> gpg Chloride <input type="checkbox"/> ppm <input type="checkbox"/> gpg	<u>20,000</u>	
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	<u>HV4</u>	
Sand Content (% by Vol.)	<u>TR</u>	
Solids Content (% by Vol.)	<u>.8</u>	
Oil Content (% by Vol.)	<u>✓</u>	
Water Content (% by Vol.)	<u>99.2</u>	
LCM, #/bbl	<u>8#</u>	

EQUIPMENT			
SIZE	HRS/TOUR	SIZE	HRS TOUR
Centrifuge		Desilter	
Degasser		Shaker	
Desander		Other	
DAILY COST <u>\$ 2434.90</u>		CUMULATIVE COST <u>\$ 6378.28</u>	

MUD PROPERTIES SPECIFICATIONS		
WEIGHT	VISCOSITY	FILTRATE
BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR		
<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

RECOMMENDED TOUR TREATMENT

- Build & maintain viscosity
- @ 42-45 sec/qt. w/ SALT MUD
- ~~AVERTS GEL~~
-
- Run water only to hold volume.
-
- ADD: 12-15 sx. starch before D.S.T. #1.

REMARKS:

KEEP HOLE FULL ON TRIPS / DONOT SWAB HOLE ON TRIPS.

EVE & MORN tower 4/3/83 / KEEP pump PRESS. @ 500-600#

55 STARCH 12 CEDAR / MAINTAIN 6-8 #/BBL L.C.M.

3 Multi-SEAL 80 S. MUD

8 DAVIS GEL 7 HULLS

ENGINEER <u>Steve Ross</u>	HOME ADDRESS <u>G.B.</u>	TELEPHONE <u>793-9012</u>
	WAREHOUSE LOCATION <u>G.B.</u>	TELEPHONE <u>792-1751</u>



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DAVIS MUD & CHEMICAL, INC.

DRILLING MUD REPORT

REPORT NO.

DATE 4/5 19 83 DEPTH 3360 T.D.
 API WELL NO. STATE COUNTY WELL S/T

OPERATOR WILEY ASH CONTRACTOR WOODMAN-IANNI HI RIG NO. I
 ADDRESS Rib ADDRESS Rib SPUD DATE 3/30/83
 REPORT FOR MR. CARTER REPORT FOR MR. E. Z. SECTION, TOWNSHIP, RANGE 9 18s 13w
 WELL NAME AND NO. POPP #2 FIELD OR BLOCK NO. COUNTY AREA BARTON STATE KS

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
PRESENT ACTIVITY C.F. LOG		8 5/8 SURFACE 143 FT		HOLE PITS 300		PUMP SIZE X IN 6 1/4 14		ANNULAR VEL. (FT./MIN.) 224	
BIT SIZE (IN.) NO. 1 7/8		INTERMEDIATE IN. AT FT.		TOTAL CIRCULATING VOLUME		PUMP MAKE		OPPOSITE DP 406	
DRILL PIPE SIZE TYPE 4 1/2		PRODUCTION OR LINER IN. AT FT.		IN STORAGE WEIGHT		MODEL BBL./STROKE STROKE/MIN .151 60		OPPOSITE COLLAR	
DRILL COLLAR SIZE LENGTH 6 1/4		MUD TYPE STARCH				BBL./MIN 9.06		CIRCULATING PRESSURE PSI 5-600#	
								BOTTOMS UP (MIN.)	
								SYSTEM TOTAL (MIN.)	

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit Flowline Temperature F	MUD PROPERTIES			EQUIPMENT					
	SIZE	HRS/TOUR	SIZE	HRS/TOUR	SIZE	HRS/TOUR	SIZE	HRS/TOUR	
Time Sample Taken	8:15	12:00	4:00	Centrifuge			Desilter		
Depth (ft)	3330	3360	3360	Deaerater			Shaker		
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb./cu. ft.)	8.8	8.8	8.1	Desander			Other		
Mud Gradient (psi/ft.)	457	457	452	DAILY COST \$1884.55		CUMULATIVE COST \$9338.08			
Funnel Viscosity (sec./qt.) API at _____ °F	40	45	54	MUD PROPERTIES SPECIFICATIONS					
Plastic Viscosity cp at/_____ °F	9	10	12	WEIGHT	VISCOSITY		FILTRATE		
Yield Point (lb./100 sq. ft.)	29	30	37	BY AUTHORITY: <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR					
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	10/14	14/20	19/28	<input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER					
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter	6.2	6.2	6.2	RECOMMENDED TOUR TREATMENT					
Filtrate API (ml./30 min.)	30	28	30	<input checked="" type="checkbox"/> RUN WATER ONLY IF NEEDED					
API HP-HT Filtrate (ml/30 min.) _____ °F	✓	✓	✓	<input type="checkbox"/> TO MAINTAIN CURRENT VOLUME					
Cake Thickness 32nd in. API <input type="checkbox"/> HP — HT <input type="checkbox"/>	3	3	3	<input type="checkbox"/>					
Alkalinity, Mud (Pm) PRES .10 .10 .10	✓	✓	✓	<input checked="" type="checkbox"/> IF NEEDED MIX SALT MUD					
Alkalinity, Filtrate (P _f /M _f)	✓	✓	✓	<input type="checkbox"/> FOR A VISCOSITY OF 45-48 SEC/QT.					
Salt <input type="checkbox"/> ppm <input type="checkbox"/> 999 Chloride <input checked="" type="checkbox"/> ppm <input type="checkbox"/> 999	20,000	21,000	18,000	<input type="checkbox"/>					
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)	TR	TR	TR	<input checked="" type="checkbox"/> BY GEO'S REQUEST, WE WILL					
Sand Content (% by Vol.)	TR	TR	TR	<input type="checkbox"/> LOG HOLE w/ PRESENT WATER					
Solids Content (% by Vol.)	2.3	2.2	1.7	loss.					
Oil Content (% by Vol.)	—	—	—						
Water Content (% by Vol.)	97.7	94.8	98.3						
LCM, #/bbl	6#	6.5#	10#						

REMARKS:
 4/5/83 / MAKE TRIP F/ LOG SLOWLY.
 115 SALT MUD 20 DAVIS GEL (DONOT SWAB.)
 20 STARCH 6 MULTI-SEAL / KEEP HOLE FULL @ ALL TIMES
 5 MUD SEAL 5 WALNUT SHELS
 5 CEDAR
 9 HULLS SUGGEST: / SHORT TRIP BEFORE LOG.

ENGINEER Steve Ross HOME ADDRESS G.B. TELEPHONE 793-9012
 WAREHOUSE LOCATION G.B. TELEPHONE 792-1151

CONTRACTOR