



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

DAVIS MUD & CHEMICAL, INC.

DRILLING MUD REPORT

REPORT NO. 3

DATE	6/16/84	DEPTH	3830
API WELL NO.		STATE	
		COUNTY	
		WELL	
		S/T	

OPERATOR Brougher Oil	CONTRACTOR Mohawk	RIG NO. 7
ADDRESS Rig	ADDRESS Rig	SPUD DATE 6/12/84
REPORT FOR MR. Brent	REPORT FOR MR. Wilber	SECTION, TOWNSHIP, RANGE 15-21-14W (KGS-DRL)
WELL NAME AND NO. Katzlaff A-3	FIELD OR BLOCK NO.	COUNTY AREA Stafford
		STATE KS.

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY Circ		SURFACE 8 5/8 IN. AT 342 FT.		HOLE 220 PITS 250		PUMP SIZE 6 X 16	
BIT SIZE (IN.) 7 7/8		INTERMEDIATE IN. AT FT.		TOTAL CIRCULATING VOLUME 470		ANNULAR VEL. (FT./MIN.) 230	
DRILL PIPE SIZE 4 1/2		PRODUCTION OR LINER IN. AT FT.		PUMP MAKE MODEL		OPPOSITE DP 419	
DRILL COLLAR SIZE 6 1/4		MUD TYPE Starch		IN STORAGE WEIGHT		CIRCULATING PRESSURE PSI 18	
				BBL./STROKE 1156		STROKE/MIN 60	
				BBL./MIN. 9.35		BOTTOMS UP (MIN.) 50	

Sample from ☐ Flowline ☐ Pit	MUD PROPERTIES		EQUIPMENT		
Flowline Temperature F	PH	SIZE	HRS/TOUR	SIZE	HRS TOUR
Time Sample Taken	2:00	Centrifuge	8 Starch	Desilter	
Depth (ft.)	3830	Degasser	10 Salt Mud	Shaker	
Weight ☐ (ppg) ☐ (lb./cu. ft.)	9.9	Desander		Other	
Mud Gradient (psi/ft.)	5.5	DAILY COST 288.00 CUMULATIVE COST 2327.00			
Funnel Viscosity (sec./qt.) API at °F	46	MUD PROPERTIES SPECIFICATIONS			
Plastic Viscosity cp at °F	9	WEIGHT	9.8-10.0	VISCOSITY	45-50
Yield Point (lb./100 sq. ft.)	24	FILTRATE	10-12		
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	24/34	BY AUTHORITY: ☐ OPERATOR'S WRITTEN ☐ DRILLING CONTRACTOR			
pH ☐ Strip ☐ Meter	6.0	☐ OPERATOR'S REPRESENTATIVE ☐ OTHER			
Filtrate API (ml./30 min.)	12.6	RECOMMENDED TOUR TREATMENT			
API HP-HT Filtrate (ml./30 min.) °F	1	☒ Maintain vis. @ 45-50			
Cake Thickness 32nd in. API ☐ HP — HT ☐	3/32	☒ to test or log.			
Alkalinity, Mud (Pm)	7	☐			
Alkalinity, Filtrate (Pf/Mf)	7	☒ Control wt. @ 9.8-10.0			
Salt ☐ ppm ☐ gpg Chloride ☐ ppm ☐ gpg	59000	☒ Do not run water			
Calcium ☐ ppm ☐ Gyp (ppb)	404	☐			
Sand Content (% by Vol.)	TR	☐ LCM only if needed			
Solids Content (% by Vol.)	7.8	☐			
Oil Content (% by Vol.)	1	☐			
Water Content (% by Vol.)	92.2	No additional Starch			
LCM, #/bbl	TR	Keep hole full			

REMARKS:	
ENGINEER	Steve West
HOME ADDRESS	67 Bond
WAREHOUSE LOCATION	✓
TELEPHONE	792-5181
TELEPHONE	792-1751



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DAVIS MUD & CHEMICAL, INC.

DRILLING MUD REPORT

REPORT NO.

DATE	6/12	1984	DEPTH	342'	
API WELL NO.		STATE	COUNTY	WELL	S/T

OPERATOR	CONTRACTOR	RIG NO.	
ADDRESS	ADDRESS	SPUD DATE	
REPORT FOR MR.	REPORT FOR MR.	SECTION, TOWNSHIP, RANGE	
WELL NAME AND NO.	FIELD OR BLOCK NO.	COUNTY AREA	STATE

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY		SURFACE		HOLE	PITS	PUMP SIZE X IN.	ANNULAR VEL. (FT./MIN.)
BIT SIZE (IN.)	NO.	IN. AT	FT.	TOTAL CIRCULATING VOLUME		PUMP MAKE	OPPOSITE DP
DRILL PIPE SIZE	TYPE	INTERMEDIATE				MODEL	OPPOSITE COLLAR
DRILL COLLAR SIZE	LENGTH	IN. AT	FT.			BBL./STROKE	CIRCULATING PRESSURE PSI
		PRODUCTION OR LINER				STROKE/MIN	BOTTOMS UP (MIN.)
		IN. AT	FT.				SYSTEM TOTAL (MIN.)
		MUD TYPE				BBL./MIN	

Sample from ☐ Flowline ☐ Pit	MUD PROPERTIES		EQUIPMENT			
Flowline Temperature F			SIZE	HRS/TOUR	SIZE	HRS/TOUR
Time Sample Taken	5:00	4:00	Centrifuge	25 GEL	14500	
Depth (ft.)	342	3010	Degasser	1 LINE	600	
Weight ☐ (ppg) ☐ (lb./cu. ft.)			Desander		Other	
Mud Gradient (psi/ft.)			DAILY COST		CUMULATIVE COST	
Funnel Viscosity (sec./qt.) API at _____ °F			151.00		151.00	
Plastic Viscosity cp at _____ °F			MUD PROPERTIES SPECIFICATIONS			
Yield Point (lb./100 sq. ft.)						
Gel Strength (lb./100 sq. ft.) 10 sec./10 min.	/	/				
pH ☐ Strip ☐ Meter						
Filtrate API (ml./30 min.)						
API HP-HT Filtrate (ml./30 min.) _____ °F						
Cake Thickness 32nd in. API ☐ HP — HT ☐						
Alkalinity, Mud (Pm)						
Alkalinity, Filtrate (Pf/Mf)	/	/				
Salt ☐ ppm ☐ gpg Chloride ☐ ppm ☐ gpg						
Calcium ☐ ppm ☐ Gyp (ppb)						
Sand Content (% by Vol.)						
Solids Content (% by Vol.)						
Oil Content (% by Vol.)						
Water Content (% by Vol.)						
LCM, #/bbl						

REMARKS:	KEEP hole full on trips		THANKS!		At 3000' TREAT system w/ 25x PRES & 405x STARCH viscosity w/ Saff mud FOR 42 to 43 sec/gal	
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RECOMMENDED TOUR TREATMENT		
☐ Below SURFACE dirly w/ WATER & NATIVE mud to APPROX 2800', RUN plenty FRESH WATER & Jet D's frequently		
☐ At 2800' Jet & CLEAN Pits		
☐ Viscosity w/ 3 tanks PRE-MIX IN FRESH WATER OF 35x SASH, 305x GEL & 35x G's HULLS		
☐ At 3000' TREAT system w/ 25x PRES & 405x STARCH viscosity w/ Saff mud FOR 42 to 43 sec/gal		
ENGINEER	HOME ADDRESS	TELEPHONE
Luke Sykes	GB	792-1831
for Steve West	WAREHOUSE LOCATION	TELEPHONE
	GB	792-1751



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DAVIS MUD & CHEMICAL, INC.

DRILLING MUD REPORT

REPORT NO. 2

DATE 6/15/84 DEPTH 3410

API
WELL
NO.

STATE

COUNTY

WELL

S/T

OPERATOR

CONTRACTOR

RIG NO.

ADDRESS

ADDRESS

SPUD DATE

REPORT FOR MR.

REPORT FOR MR.

SECTION, TOWNSHIP, RANGE

WELL NAME AND NO.

FIELD OR BLOCK NO

COUNTY
AREA

STATE

OPERATION

CASING

MUD VOLUME (BBL)

CIRCULATION DATA

PRESENT ACTIVITY

SURFACE

HOLE

PITS

PUMP SIZE

X

IN.

ANNULAR VEL. (FT./MIN.)

BIT SIZE (IN)

NO.

INTERMEDIATE

TOTAL CIRCULATING VOLUME

PUMP MAKE

OPPOSITE DP

OPPOSITE COLLAR

DRILL PIPE SIZE

TYPE

PRODUCTION OR LINER

IN STORAGE

WEIGHT

BBL./STROKE

STROKE/MIN

CIRCULATING
PRESSURE PSI

DRILL COLLAR SIZE

LENGTH

MUD
TYPE

BBL./MIN

BOTTOMS UP (MIN)

SYSTEM
TOTAL (MIN)

Sample from ☐ Flowline ☐ Pit

Flowline Temperature

F

MUD PROPERTIES

EQUIPMENT

SIZE HRS/TOUR

SIZE

HRS TOUR

Time Sample Taken

Depth (ft.)

Weight ☐ (ppg) ☐ (lb./cu. ft.)

Mud Gradient (psi/ft.)

Funnel Viscosity (sec./qt.) API at _____ °F

Plastic Viscosity cp at _____ °F

Yield Point (lb./100 sq. ft.)

Gel Strength (lb./100 sq. ft.) 10 sec./10 min.

pH ☐ Strip ☐ Meter

Filtrate API (ml./30 min.)

API HP-HT Filtrate (ml./30 min.) _____ °F

Cake Thickness 32nd in. API ☐ HP — HT ☐

Alkalinity, Mud (Pm)

Alkalinity, Filtrate (P_f/M_f)

Salt ☐ ppm ☐ gpg Chloride ☐ ppm ☐ gpg

Calcium ☐ ppm ☐ Gyp (ppb)

Sand Content (% by Vol.)

Solids Content (% by Vol.)

Oil Content (% by Vol.)

Water Content (% by Vol.)

LCM, #/bbl

REMARKS:

Centrifuge

Deaerator

Desander

DAILY COST

CUMULATIVE COST

MUD PROPERTIES SPECIFICATIONS

WEIGHT

VISCOSITY

FILTRATE

BY AUTHORITY:

☐ OPERATOR'S WRITTEN

☐ DRILLING CONTRACTOR

☐ OPERATOR'S REPRESENTATIVE

☐ OTHER

RECOMMENDED TOUR TREATMENT

☒ Incr. vis. to 42-45 w/
☒ Salt Mud in pit mud as
☒ needed

☒ Control w. @ 9.8-10.0
☒ Do not run water

☒ LCM as needed.

Suggest 8x Starch in
Premix w/ vis mud
Keep hole full @ all times

ENGINEER

HOME ADDRESS

TELEPHONE

WAREHOUSE LOCATION

TELEPHONE