

DRILL-STEM TEST DATA

Well Name:	HUMBURG #3			
Company :	PICKRELL DRILLING CO			
Location - Sec:	25	Twp:	19S	Rge: 22W
County:	NESS	State:	KS	
Date:	06/08/95			

TRILOBITE TESTING L.L.C.

OPERATOR : PICKRELL DRILLING CO
WELL NAME: HUMBURG #3
LOCATION : 25-19S-22W, NESS COUNTY
INTERVAL : 4262.00 To 4310.00 ft

DATE 06/06/95
KB 0.00 ft
GR 2259.00 ft
TD 4310.00 ft
TICKET NO: 8050
FORMATION: FORT SCOTT
TEST TYPE: CONVENTIONAL
DST #1

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	6730	6730	10332			PF Fr. 30 to hr
SI 30	Range(Psi)	4300.0	4300.0	4050.0	0.0	0.0	IS Fr. 30 to hr
SF 30	Clock(hrs)	26199	26199	25828			SF Fr. 30 to hr
FS 30	Depth(ft)	4264.0	4264.0	4307.0	0.0	0.0	FS Fr. 30 to hr

	Field	1	2	3	4	
A. Init Hydro	2258.0	2236.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	10.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	12.0	0.0	0.0	0.0	0.0	T OPEN 1325 hr
C. In Shut-in	226.0	0.0	0.0	0.0	0.0	T PULLED 1525 hr
D. Init Flow	15.0	23.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	15.0	23.0	0.0	0.0	0.0	
F. Fl Shut-in	53.0	55.0	0.0	0.0	0.0	
G. Final Hydro	2088.0	2096.0	0.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
10.00 ft of DRILLING MUD
0.00 ft of TRACE OF OIL
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

INITIAL FLOW -
TOOL PLUGGING

INITIAL BLOW -
SURGE AT OPEN, NO BLOW

FINAL BLOW -
NO BLOW, FLUSHED TOOL - NO HELP

SAMPLES:
SENT TO:

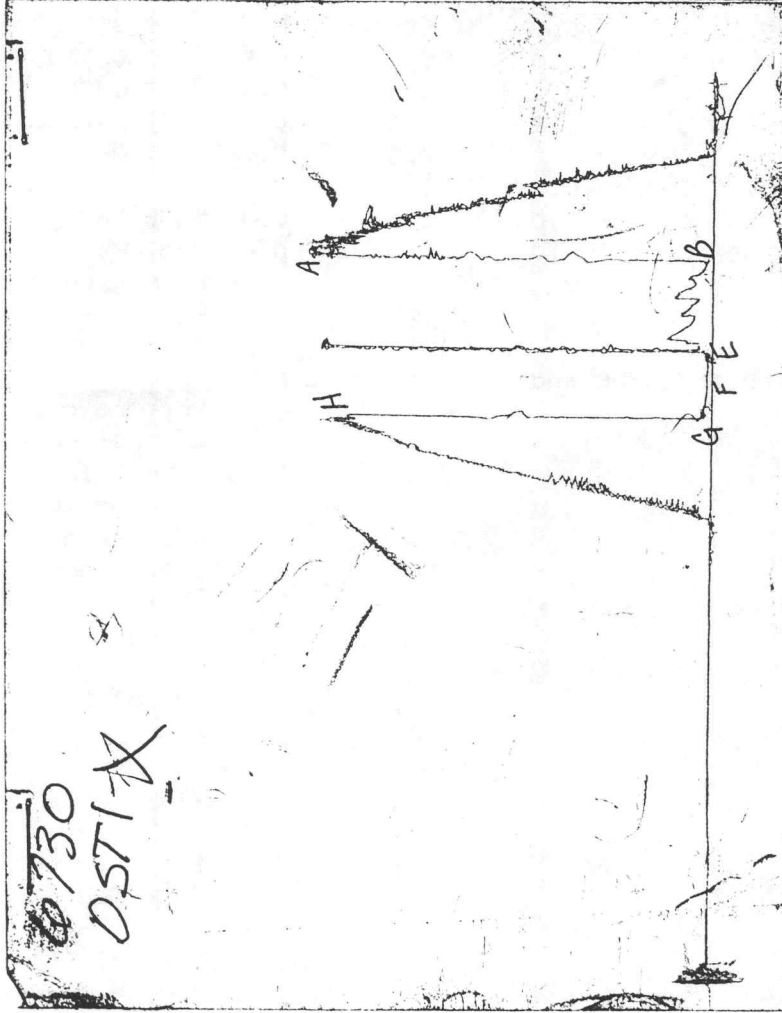
MUD DATA-----

Mud Type	CHEMICAL
Weight	9.40 lb/c
Vis.	46.00 S/L
W.L.	13.20 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	GARY SPEER
Co. Rep.	BILL KLAVER
Contr.	PICKRELL
Rig #	
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : PICKRELL DRILLING CO

DATE 06/07/95

WELL NAME: HUMBURG #3

KB 0.00 ft

TICKET NO: 8126 DST #2

LOCATION : 25-19S-22W, NESS COUNTY

GR 2259.00 ft

FORMATION: MISSISSIPPIAN

INTERVAL : 4367.00 To 4375.00 ft

TD 4375.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	6730			PF Fr. 30 to hr
SI 60 Range(Psi)	4050.0	4050.0	4300.0	0.0	0.0	IS Fr. to 1 hr
SF 30 Clock(hrs)	25828	25828	26199			SF Fr. 30 to hr
FS 60 Depth(ft)	4372.0	4372.0	4366.0	0.0	0.0	FS Fr. to 1 hr

	Field	1	2	3	4	
A. Init Hydro	2258.0	2238.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	80.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	101.0	0.0	0.0	0.0	0.0	T OPEN 0735 hr
C. In Shut-in	1175.0	1162.0	0.0	0.0	0.0	T PULLED 1035 hr
D. Init Flow	101.0	88.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	111.0	99.0	0.0	0.0	0.0	
F. Fl Shut-in	1145.0	1132.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2088.0	2091.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 178.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 110.00 ft of 110.00 ft in DC and 0.00 ft in DP

10.00 ft of GAS IN PIPE

10.00 ft of CLEAN GASSY OIL - 2% GAS, 98% OIL

70.00 ft of OIL CUT MUD - 30% OIL, 70% MUD

30.00 ft of OIL CUT MUD - 10% OIL, 90% MUD

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 36.00

BLOW DESCRIPTION

INITIAL BLOW -

FROM SURFACE TO 2 1/2", WEAK TO FAIR

BLOW

INITIAL SHUTIN -

FEW SURFACE BUBBLES

FINAL BLOW -

NO BLOW, FLUSHED TOOL - NO HELP, BEGAN

WEAK SURFACE BLOW 20 MIN AFTER FLUSH,

BUILT TO 1/2" WEAK BLOW

*TOOL PLUGGING DURING FLOWS

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.40 lb/c
Vis.	46.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill 0.00 ft

Btm. H. Temp. 110.00 F

Hole Condition

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out

Tool Chased

Tester GARY SPEER

Co. Rep. BILL KLAVER

Contr. PICKRELL

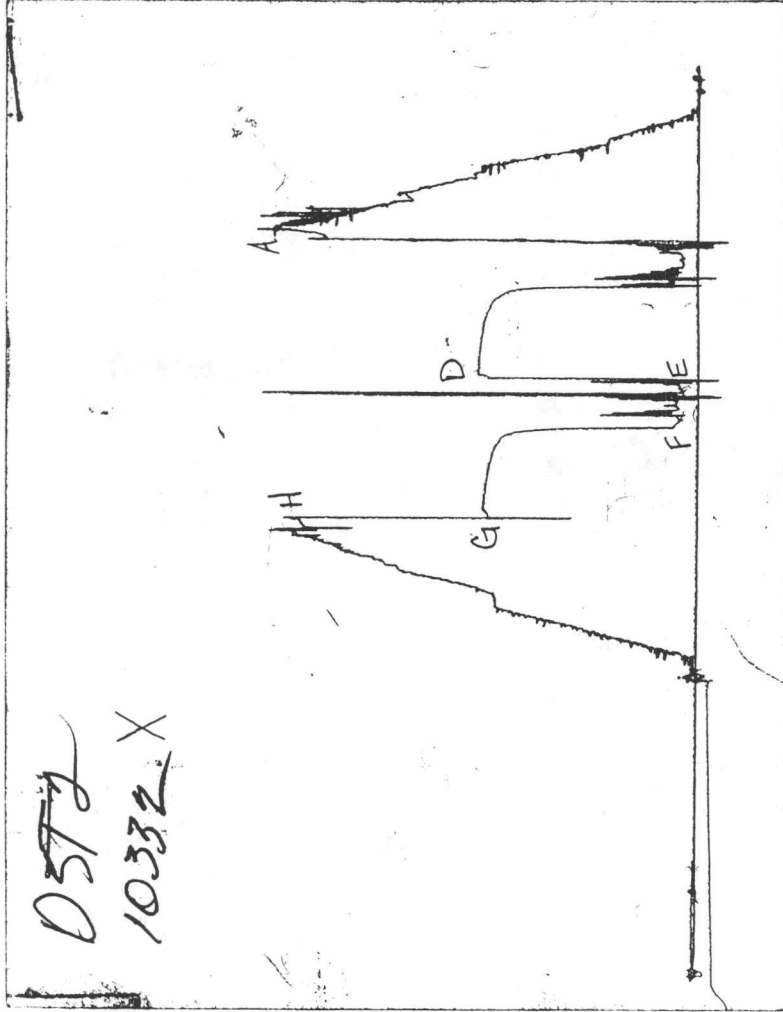
Rig #

Unit #

Pump T.

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANAL DRILL COLLARS

DST # 2

TICKET # 8126

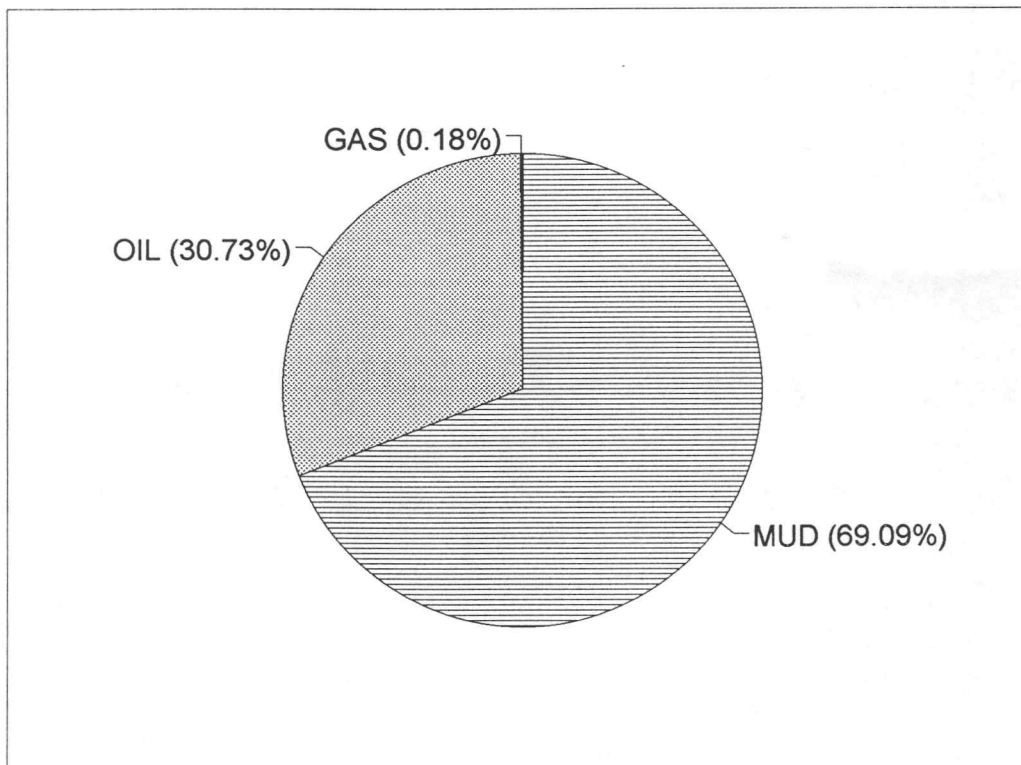
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	10	2	0.2	98	9.8		0		0
2	70		0	30	21		0	70	49
3	30		0	10	3		0	90	27
4			0		0		0		0
5			0		0		0		0
TOTAL	110	0.18	0.2	30.73	33.8	0.00	0	69.09091	76

HRS OPE BBL/DAY

BBL OIL= 0.165282
BBL WAT 0
BBL MUD 0.37164
BBL GAS 0.000978

* 1.00 3.966768
* 0

*



TRILOBITE TESTING L.L.C.

OPERATOR : PICKRELL DRILLING CO

DATE 06/07/95

WELL NAME: HUMBURG #3

KB 0.00 ft

TICKET NO: 8127 DST #3

LOCATION : 25-19S-22W, NESS COUNTY

GR 2259.00 ft

FORMATION: MISSISSIPPIAN

INTERVAL : 4370.00 To 4385.00 ft

TD 4385.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	0 Rec.	10332	10332	11086			PF Fr. to hr
SI	0 Range(Psi)	4050.0	4050.0	4350.0	0.0	0.0	IS Fr. to hr
SF	0 Clock(hrs)	25114	25114	25828			SF Fr. to hr
FS	0 Depth(ft)	4372.0	4372.0	4380.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2128.0	2133.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 2317 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2078.0	2088.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 178.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 395.00 ft of 178.00 ft in DC and 217.00 ft in DP
 395.00 ft of DRILLING MUD
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

PACKER FAILURE

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.30 lb/c
Vis.	49.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

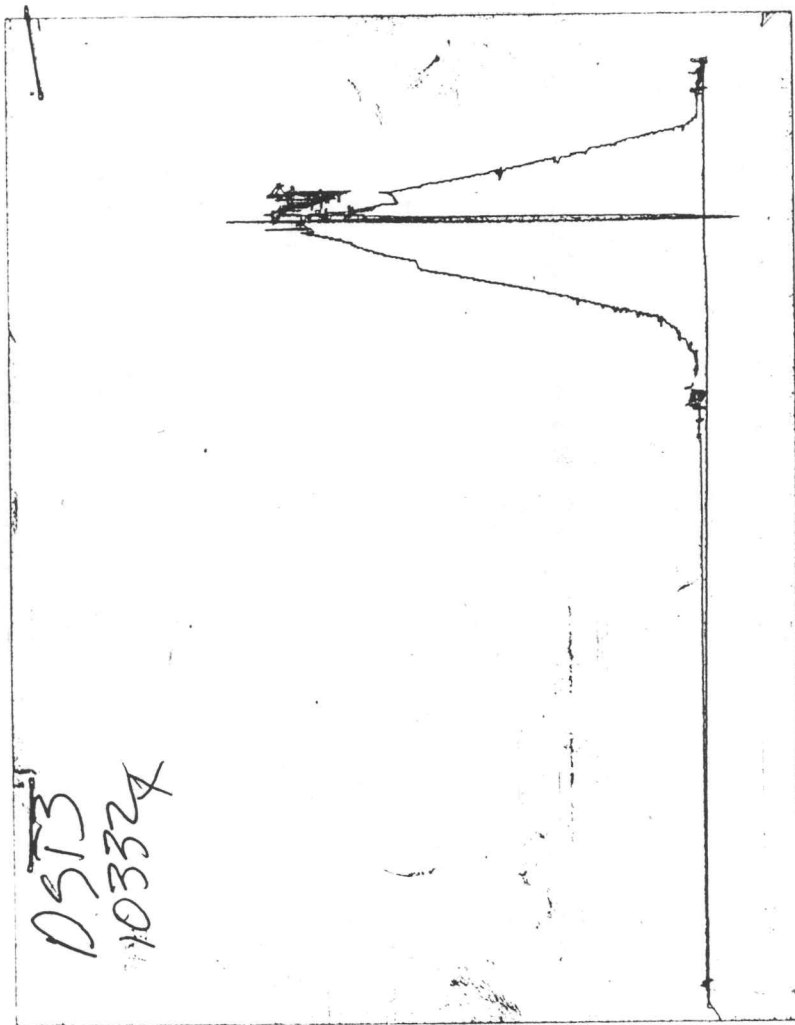
SAMPLES:

SENT TO:

Reversed Out	
Tool Chased	
Tester	GARY SPEER
Co. Rep.	BILL KLAVER
Contr.	PICKRELL
Rig #	
Unit #	
Pump T.	

Test Successful:

CHART PAGE



This is an actual photograph of an AK1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : PICKRELL DRILLING CO
WELL NAME: HUMBURG #3
LOCATION : 25-19S-22W, NESS COUNTY
INTERVAL : 4317.00 To 4385.00 ft

DATE 06/08/95
KB 0.00 ft
GR 2259.00 ft
TD 4385.00 ft
TICKET NO: 8128
FORMATION: MISSISSIPPIAN
DST #4
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	11086			PF Fr. 30 to hr
SI 60 Range(Psi)	4050.0	4050.0	4350.0	0.0	0.0	IS Fr. to 1 hr
SF 120 Clock(hrs)	25114	25114	25828			SF Fr. to 2 hr
FS 120 Depth(ft)	4353.0	4353.0	4380.0	0.0	0.0	FS Fr. to 2 hr

	Field	1	2	3	4	
A. Init Hydro	2248.0	2224.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	131.0	129.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	141.0	142.0	0.0	0.0	0.0	T OPEN 0318 hr
C. In Shut-in	1064.0	1160.0	0.0	0.0	0.0	T PULLED 0848 hr
D. Init Flow	141.0	195.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	202.0	203.0	0.0	0.0	0.0	
F. Fl Shut-in	1044.0	1135.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2178.0	2148.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 178.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 290.00 ft of 178.00 ft in DC and 112.00 ft in DP
75.00 ft of GAS IN PIPE
30.00 ft of CLEAN GASSY OIL - 4% GAS, 96% OIL
80.00 ft of OIL CUT MUD - 30% OIL, 70% MUD
120.00 ft of GASSY OIL CUT MUD - 5% GAS, 20% OIL, 75% MUD
60.00 ft of GASSY WATER & OIL CUT MUD - 10% GAS, 20% OIL,
0.00 ft of 10% H2O, 60% MUD
0.00 ft of

RW .2 @ 70 F

SALINITY 32000.00 P.P.M. A.P.I. Gravity 36.00

BLOW DESCRIPTION

INITIAL BLOW -
FROM SURFACE TO 5 1/2"

INITIAL SHUTIN -

NO RETURN BLOW

FINAL BLOW -

NO BLOW, FLUSHED TOOL 10 MIN INTO -
BLOW BUILT TO 7 1/2"

FINAL SHUTIN -

NO RETURN BLOW

SAMPLES:

SENT TO:

MUD DATA-----

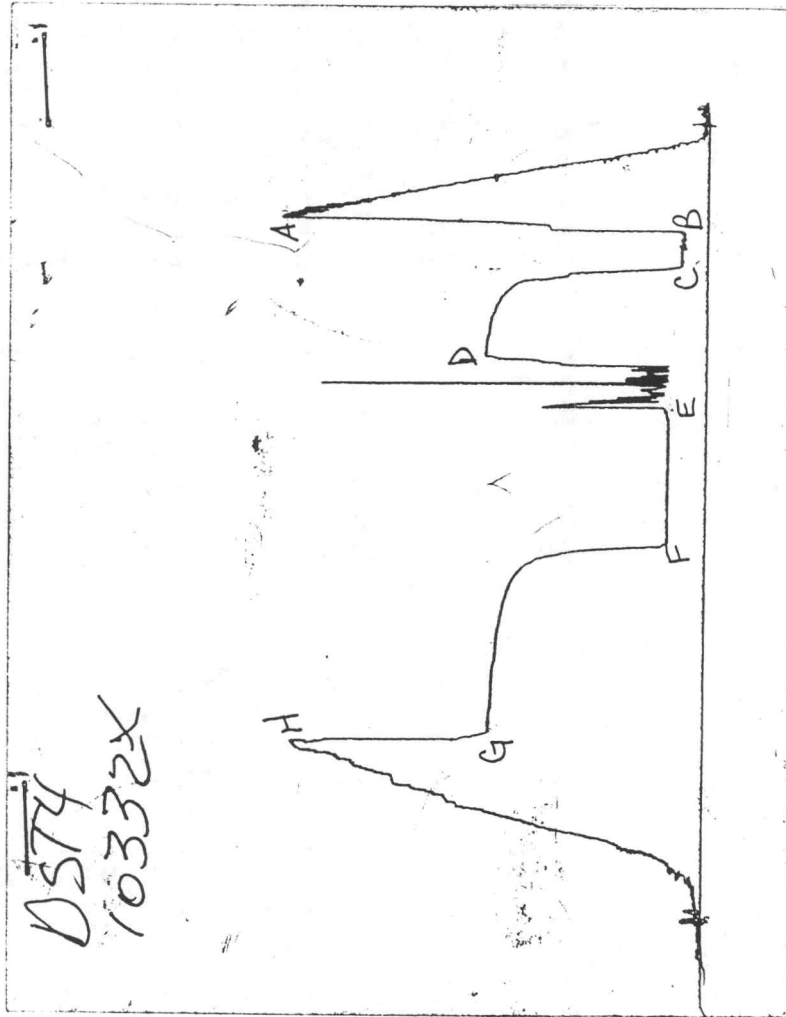
Mud Type	CHEMICAL
Weight	9.30 lb/c
Vis.	49.00 S/L
W.L.	11.60 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	130.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	

Tester GARY SPEER
Co. Rep. BILL KLAVER
Contr. PICKRELL
Rig #
Unit #
Pump T.

Test Successful:

CHART PAGE



This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANALYSIS

DST # 4

TICKET # 8128

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL PIPE	1	30	4	1.2	96	28.8		0	0	
	2	80		0	30	24		0	70	56
	3	2	5	0.1	20	0.4		0	75	1.5
	4			0		0		0		0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT PIPE	1			0		0		0		0
	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRL COLLAR	1	118	5	5.9	20	23.6		0	75	88.5
	2	60	10	6	20	12	10	6	60	36
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL	290	4.551724	13.2	30.62069	88.8	2.068966	6	62.75862	182	
HRS OPE BBL/DAY										
BBL OIL=	0.930588	*	2.50	8.933645						
BBL WATER=	0.02934	*		0.281664						
BBL MUD=	1.426455									
BBL GAS =	0.076677									

