

DRILL-STEM TEST DATA

Well Name: VALLENTINE #1
Company : HUMMON CORPORATION
Location - Sec: 5 **Twp:** 32S **Rge:** 21W
County: CLARK **State:** KS
Date: 09/11/95

TRILOBITE TESTING L.L.C.

OPERATOR : Hummon Corporation

DATE 9-9-95

WELL NAME: Vallentine #1

KB 1981.00 ft

TICKET NO: 8505 DST #1

LOCATION : 5-32S-21W, Clark Cty, KS

GR 1972.00 ft

FORMATION: Morrow Sand

INTERVAL : 5109.00 To 5145.00 ft

TD 5145.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	22150	22150	24174			PF Fr. 1636 to 1706 hr
SI 45 Range(Psi)	3925.0	3925.0	3050.5	0.0	0.0	IS Fr. 1706 to 1751 hr
SF 60 Clock(hrs)	12hr	12hr	12hr			SF Fr. 1751 to 1851 hr
FS 90 Depth(ft)	5113.0	5113.0	5140.0	0.0	0.0	FS Fr. 1851 to 2021 hr

	Field	1	2	3	4	
A. Init Hydro	2482.0	2482.0	0.0	0.0	0.0	T STARTED 1445 hr
B. First Flow	96.0	97.0	0.0	0.0	0.0	T ON BOTM 1634 hr
B1. Final Flow	96.0	99.0	0.0	0.0	0.0	T OPEN 1636 hr
C. In Shut-in	1284.0	1270.0	0.0	0.0	0.0	T PULLED 2021 hr
D. Init Flow	124.0	106.0	0.0	0.0	0.0	T OUT 2245 hr
E. Final Flow	134.0	121.0	0.0	0.0	0.0	
F. Fl Shut-in	1284.0	1276.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2441.0	2434.0	0.0	0.0	0.0	Tool Wt. 1500.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 61000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5114.00 ft

RECOVERY

Tot Fluid 300.00 ft of 0.00 ft in DC and 300.00 ft in DP
 20.00 ft of slightly oil cut mud - 5% oil, 95% mud
 70.00 ft of gassy hvy oil cut mud- 5% gas 25% oil 70% mud
 120.00 ft of gassy mud & water cut oil -
 10% gas, 50% oil, 20% water, 20% mud
 75.00 ft of gassy slightly mud cut watery oil -
 30% gas, 45% oil, 20% water, 5% mud
 15.00 ft of slightly oil & mud cut water -
 5% oil, 80% water, 15% mud
 SALINITY 34000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----	Chemical
Mud Type	
Weight	9.40 lb/cf
Vis.	47.00 S/L
W.L.	12.00 in ³
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Arden Ratzlaff
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

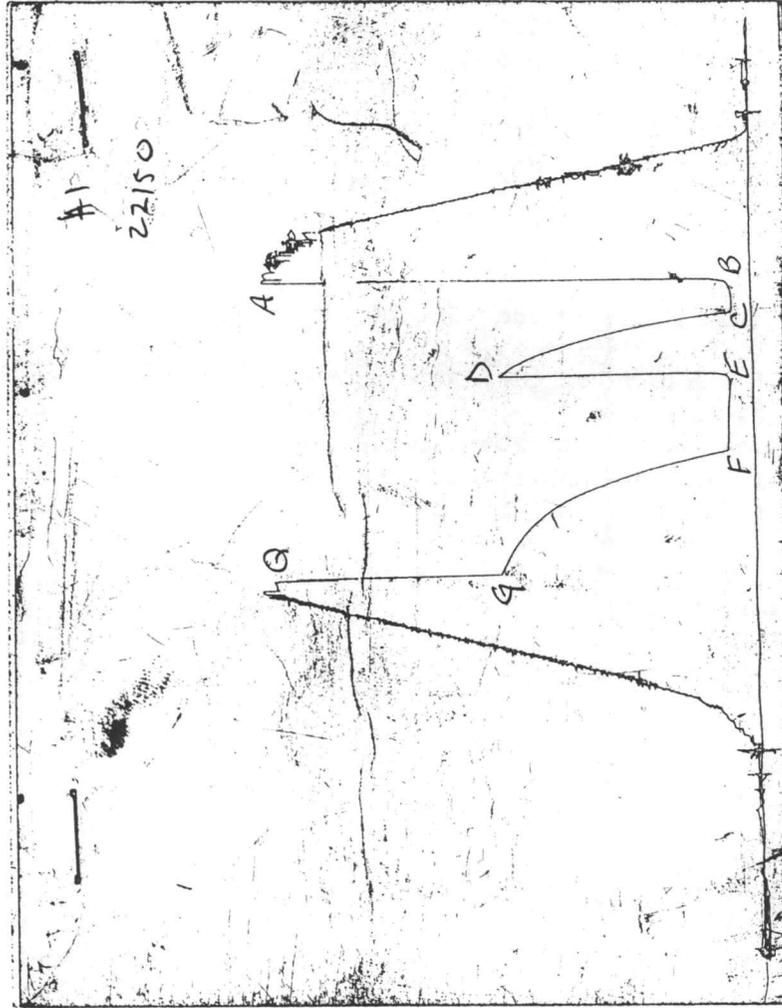
BLOW DESCRIPTION

Initial Blow -
 Strong bottom of bucket when tool opened; Gas to surface in 4 min.
 Initial Shutin -
 Blow built to bottom of bucket in 20 minutes
 Final Blow -
 Strong, gauging gas
 Final Shutin -
 No blow

SAMPLES: caught 1st open
 SENT TO:

Test Successful:

CHART PAGE



This is an actual photograph of recorder chart

GAS RECOVERY

COMPANY: Hummon Corporation

DATE: 9-9-95

WELL NAME: Vallentine #1

KB Elev: 1981.00 ft TICKET #8505 DST #1

WELL LOCATION: 5-32S-21W, Clark Cty, KS

GR Elev: 1972.00 ft FORMATION: Morrow Sand

INTERVAL Fr.: 5109.00 To 5145.00 T.D.: 5145.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
4	1.50	0	12	241000.0
10	1.50	0	9	209000.0
15	1.00	0	20	115000.0
20	1.00	0	12	89800.0
30	1.00	0	10	81600.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
0	1.25	0	16	176000.0
5	1.25	0	12	152000.0
10	1.25	0	4	87800.0
20	0.75	0	6	34700.0
30	0.25	0	70	14100.0
40	0.25	0	82	15200.0
50	0.25	0	94	16300.0
60	0.25	0	94	16300.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Vallentine #1

LOCATION : 5-32S-21W, Clark Cty, KS

TICKET No. 8505 D.S.T. No. 1 DATE 9-9-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 36

TOTAL TOOL 63

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 82 Total

TOTAL ASSEMBLY 5114

D.C. ABOVE TOOLS.Stands517 Single 514 Total 32

D.P. ABOVE TOOLS.Stands51 Single 1 Total 4776

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5380

TOTAL DEPTH 5352

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

	P.O. SUB	
	C.O. SUB changeover sub	5084
	S.I. TOOL Shutin tool	5089
	HMV Hydraulic tool	5094
	JARS	5098
	SAFETY JOINT	5100
	PACKER Top Packer	5104
	PACKER Bottom Packer	5109
	DEPTH 5109	
	STUBB 5110	
	ANCHOR	
	3' perf	5113
	AK-1 recorder	5113
	5' pickup sub	5118
	5' perf	5123
	5' perf	5128
	T.C.	
	DEPTH	
	5' perf	5133
	5' perf	5138
	4' perf	5142
	AK-1 recorder	5140
	3' bullplug	
	BULLNOSE to	
	T.D.	5145

TRILOBITE TESTING L.L.C.

OPERATOR : Hummon Corporation
 WELL NAME: Vallentine #1
 LOCATION : 5-32S-21W, Clark Cty, KS
 INTERVAL : 5135.00 To 5250.00 ft

DATE 9-11-95

KB 1981.00 ft TICKET NO: 8506 DST #2
 GR 1972.00 ft FORMATION: Morrow Sand/Miss
 TD 5250.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	22150	22150	24174			PF Fr. 0110 to 0140 hr
SI 60	Range(Psi)	3925.0	3925.0	3050.5	0.0	0.0	IS Fr. 0140 to 0240 hr
SF 60	Clock(hrs)	12hr	12hr	12hr			SF Fr. 0240 to 0340 hr
FS 120	Depth(ft)	5232.0	5232.0	5244.0	0.0	0.0	FS Fr. 0340 to 0540 hr

	Field	1	2	3	4	
A. Init Hydro	2609.0	2603.0	0.0	0.0	0.0	T STARTED 2315 hr
B. First Flow	149.0	143.0	0.0	0.0	0.0	T ON BOTM 0108 hr
Bl. Final Flow	187.0	184.0	0.0	0.0	0.0	T OPEN 0110 hr
C. In Shut-in	1583.0	1571.0	0.0	0.0	0.0	T PULLED 1540 hr
D. Init Flow	247.0	229.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	270.0	256.0	0.0	0.0	0.0	
F. Fl Shut-in	1605.0	1597.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2482.0	2462.0	0.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 64000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5114.00 ft

RECOVERY

Tot Fluid 570.00 ft of 0.00 ft in DC and 570.00 ft in DP
 210.00 ft of gassy slightly oil cut mud - 15% gas, 5% oil,
 80% mud
 360.00 ft of oil specked muddy water - 2% oil, 80% water,
 18% mud

RW .21 ohms @ 71 F

SALINITY 34000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Strong bottom of bucket in 15 sec

Initial Shutin -
 No blow

Final Blow -
 Strong, gauging gas; Gas to surface
 10 min

Final Shutin -
 Blow built to bottom of bucket

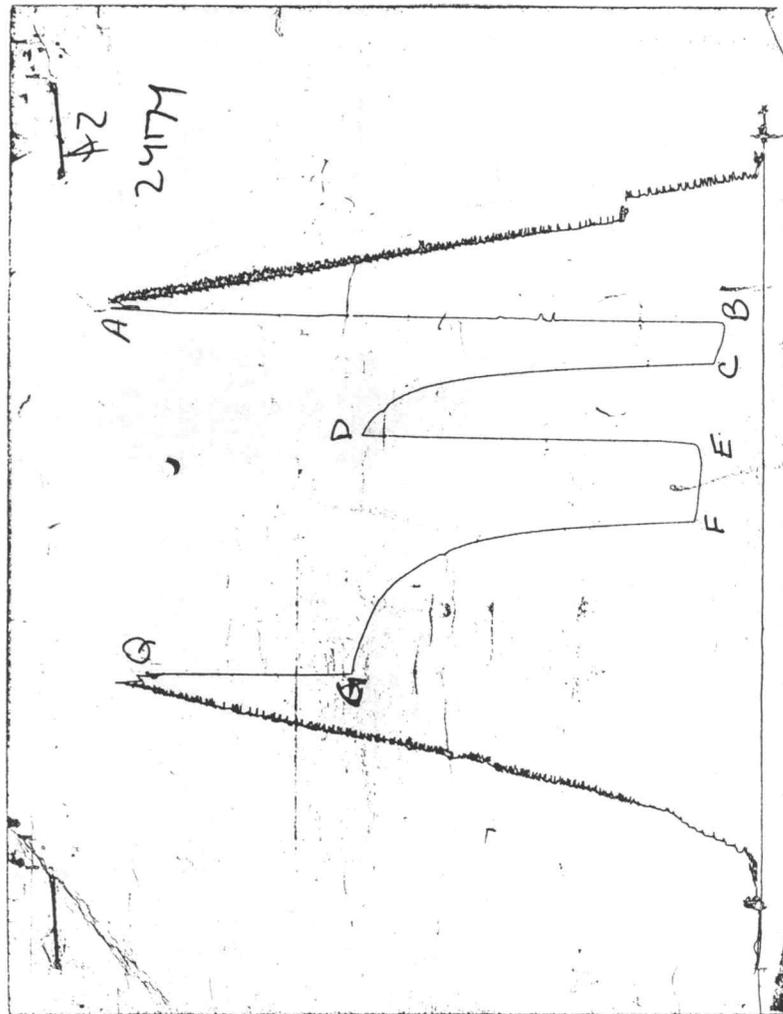
SAMPLES: caught 2nd open
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	47.00 S/L
W.L.	13.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Arden Ratzlaff
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful:

CHART PAGE



This is an actual photograph of recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Hummon Corporation

DATE 9-11-95

WELL NAME: Vallentine #1

KB 1981.00 ft

TICKET NO: 8507 DST #3

LOCATION : 5-32S-21W, Clark Cty, KS

GR 1972.00 ft

FORMATION: Morrow Sand

INTERVAL : 5134.00 To 5168.00 ft

TD 5250.00 ft

TEST TYPE: CONV/STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----		
PF	0 Rec.	22150	22150	24174			PF Fr.	to	hr
SI	0 Range(Psi)	3925.0	3925.0	3050.5	0.0	0.0	IS Fr.	to	hr
SF	0 Clock(hrs)	12hr	12hr	12hr			SF Fr.	to	hr
FS	0 Depth(ft)	5232.0	5232.0	5244.0	0.0	0.0	FS Fr.	to	hr

	Field	1	2	3	4			
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	0.0	T STARTED	1005 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	0.0	T ON BOTM	1208 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	0.0	T OPEN	1210 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	0.0	T PULLED	1225 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	0.0	T OUT	1430 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	0.0		
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----	
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	0.0	Tool Wt.	3500.00 lbs
Inside/Outside	I	I	O				Wt Set On Packer	30000.00 lbs
							Wt Pulled Loose	75000.00 lbs
							Initial Str Wt	64000.00 lbs
							Unseated Str Wt	65000.00 lbs
							Bot Choke	0.75 in
							Hole Size	7.88 in
							D Col. ID	0.00 in
							D. Pipe ID	3.80 in
							D.C. Length	0.00 ft
							D.P. Length	5116.00 ft

RECOVERY

Tot Fluid 240.00 ft of 0.00 ft in DC and 240.00 ft in DP
 240.00 ft of gassy mud

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

BLOW DESCRIPTION

Initial Blow -
 Packers failed, tried again - no help,
 tripped out of hole

MUD DATA-----

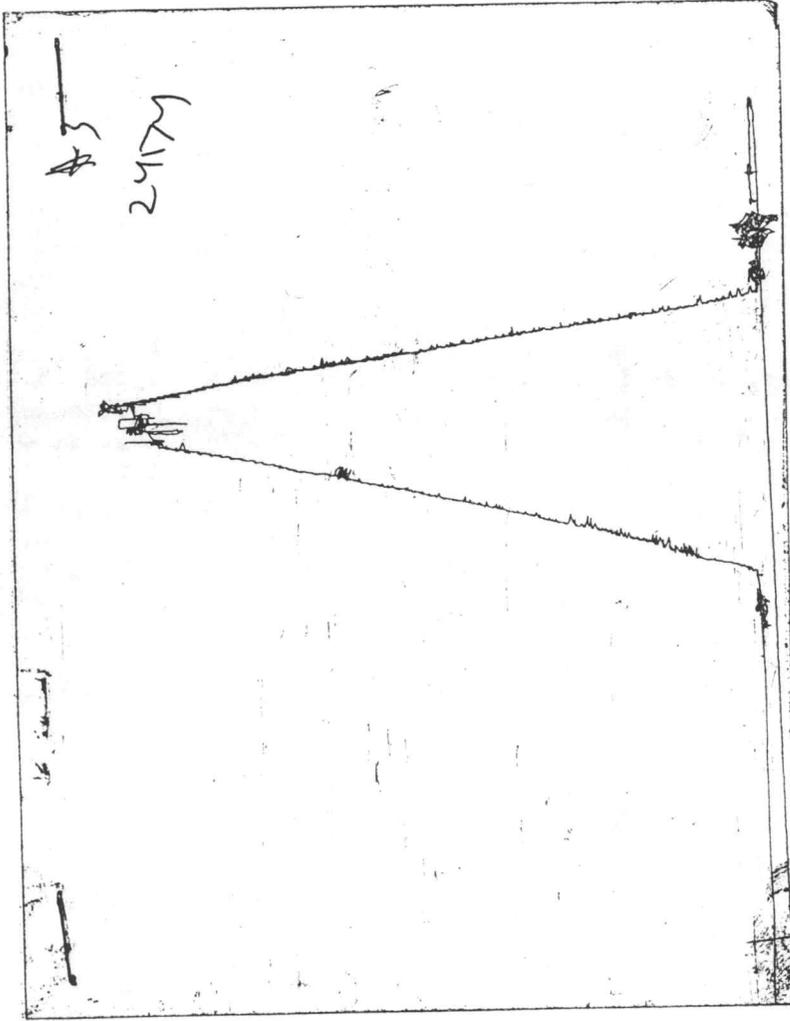
Mud Type Chemical
 Weight 9.40 lb/c
 Vis. 76.00 S/L
 W.L. 16.00 in3
 F.C. 0.00 in
 Mud Drop Y 200.0 ft

Amt. of fill 0.00 ft
 Btm. H. Temp. 125.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Paul Simpson
 Co. Rep. Arden Ratzlaff
 Contr. Duke
 Rig # 5
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: N

CHART PAGE



This is an actual photograph of recorder chart

*** TOOL DIAGRAM *** CONV/STRADDLE

WELL NAME: Vallentine #1

LOCATION : 5-32S-21W, Clark Cty, KS

TICKET No. 8507 D.S.T. No. 3 DATE 9-11-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 54

TOTAL TOOL 81

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 62

TOTAL ASSEMBLY 143

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands82 Single Total 5116

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5259

TOTAL DEPTH 5250

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

P.O. SUB	
C.O. SUB changeover sub	5109
S.I. TOOL Shutin tool	5114
HMV Hydraulic tool	5119
JARS	5123
SAFETY JOINT	5125
PACKER Top Packer	5129
PACKER Bottom Packer	5134
DEPTH 5134	
STUBB 5135	
ANCHOR	
1' perf	5136
5' perf	5141
5' perf	5145
5'perf	5150
4'perf	5154
4'perf	5158
4'perf	5162
AK-1 recorder	5160
T.C. 2' perf	5164
DEPTH blank off sub	
PACKER straddle packer	5168
stubb	5169
PACKER changeover sub	5170
1 stand drill pipe	
61.9	5232
5' perf	5237
5' perf	5242
5' perf	5247
AK-1 recorder	5244
3' bullplug	
BULLNOSE to	
T.D.	5250

TRILOBITE TESTING L.L.C.

OPERATOR : Hummon Corporation

DATE 9-12-95

WELL NAME: Vallentine #1

KB 1985.00 ft

TICKET NO: 8508 DST #4

LOCATION : 5-32S-21W, Clark Cty, KS

GR 1972.00 ft

FORMATION: Morrow Sand

INTERVAL : 5142.00 To 5168.00 ft

TD 5248.00 ft

TEST TYPE: CONV/STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	24174	24174	10994			PF Fr. 0047 to 0117 hr
SI 60 Range(Psi)	3050.0	3050.0	0.5	0.0	0.0	IS Fr. 0117 to 0217 hr
SF 60 Clock(hrs)	12 hr	12hr	12hr			SF Fr. 0217 to 0317 hr
FS 120 Depth(ft)	5149.0	5149.0	5164.0	0.0	0.0	FS Fr. 0317 to 0517 hr

	Field	1	2	3	4	
A. Init Hydro	2498.0	2489.0	0.0	0.0	0.0	T STARTED 2309 hr
B. First Flow	37.0	34.0	0.0	0.0	0.0	T ON BOTM 0045 hr
Bl. Final Flow	37.0	34.0	0.0	0.0	0.0	T OPEN 0047 hr
C. In Shut-in	1492.0	1479.0	0.0	0.0	0.0	T PULLED 0517 hr
D. Init Flow	44.0	43.0	0.0	0.0	0.0	T OUT 0755 hr
E. Final Flow	44.0	39.0	0.0	0.0	0.0	
F. Fl Shut-in	1439.0	1438.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2371.0	2358.0	0.0	0.0	0.0	Tool Wt. 3500.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 64000.00 lbs
						Unseated Str Wt 64000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5116.00 ft

RECOVERY

Tot Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP
 90.00 ft of slightly oil specked watery mud - 2% oil,
 28% water, 70% mud

RW .2 @ 55.5 F

SALINITY 44000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Strong blow bottom of bucket in 15 seconds; GTS in 14 minutes, will burn

Initial Shutin -
 Blow back built to bottom of bucket then died back to surface

Final Blow -
 Strong gauging gas

Final Shutin -
 No blow

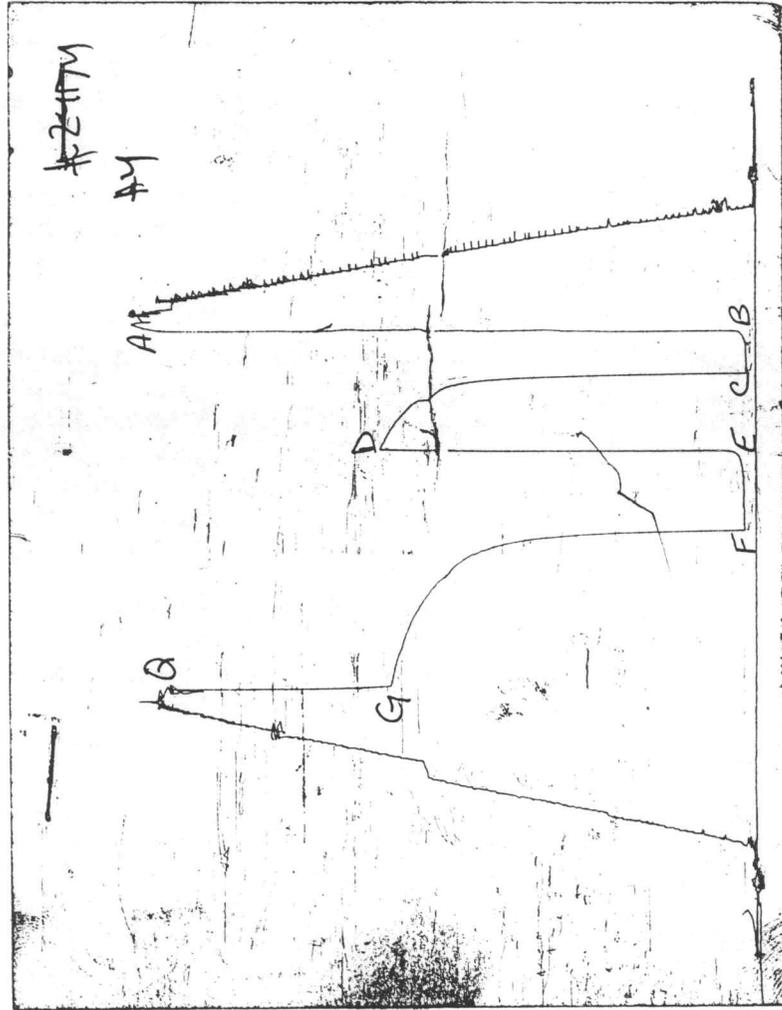
SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	55.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Paul Simpson
Co. Rep.	Arden Ratzlaff
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

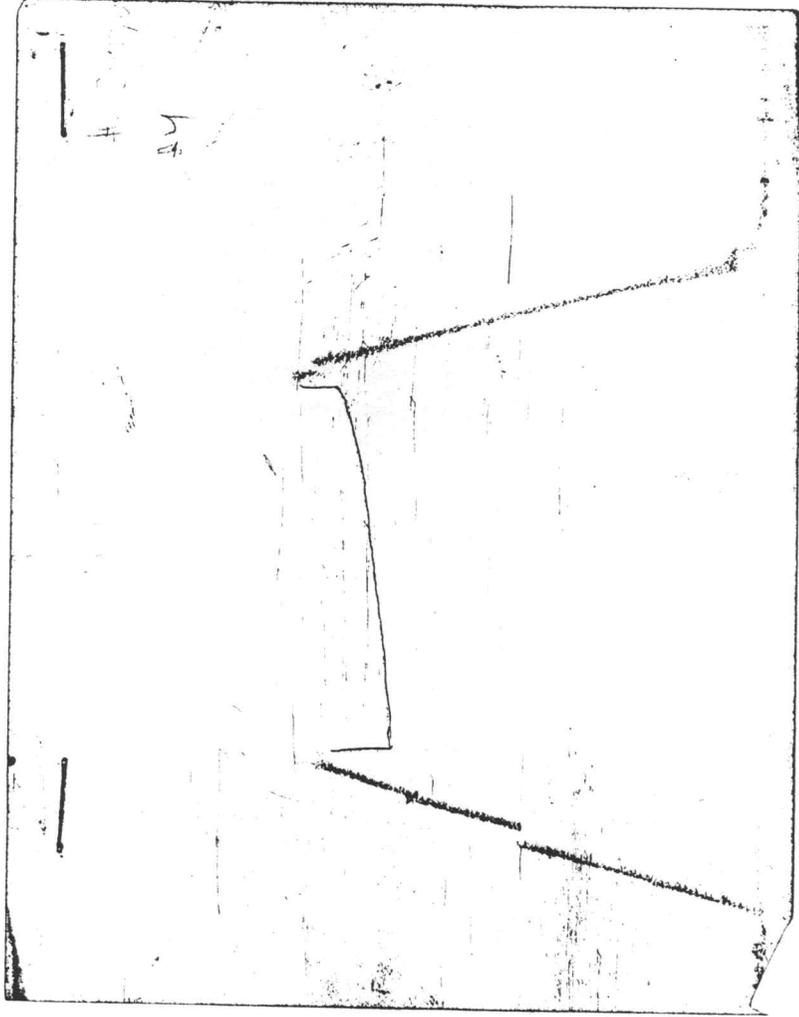
Test Successful: Y

CHART PAGE



This is an actual photograph of recorder chart

CHART PAGE



This is an actual photograph of recorder chart

