

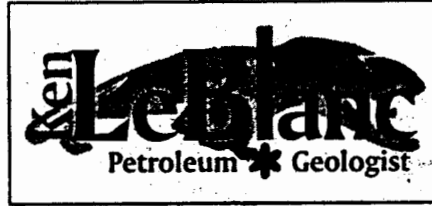
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31-31s-37w

A DETAILED ACCOUNTING OF EACH SAMPLE TAKEN DURING THE DRILLING OF THE ZINKE & TRUMBO, INC. MARY J. BETTS 1-31 CAN BE FOUND WITHIN THE **SUPPLEMENTAL DATA BROCHURE** WHICH SUPPORTS THE GEOLOGIC REPORT.

31 - 31-37w



DST 1) 5898 - 5980 (Lower Morrow Section)

Times 30-60-60-120

1st open: 1/2 inch blow throughout
(no blow back)

2nd open: 1/2 inch blow died in 50 minutes
(no blow back)

Rec: NO GAS TO SURFACE
NO GAS IN PIPE
NO SHOWS OF OIL

20' Drilling Mud

Recorders-Electronic	Mechanical
Alpine	AK-1
IHYD: 2095	2812
IFP: 29-32	27-27
IBHP: 179	149
FFP: 30-39	41-41
FBHP: 330	323
FHYD: 2806	2786

Temp: 136 degrees F

Bottom Sampler

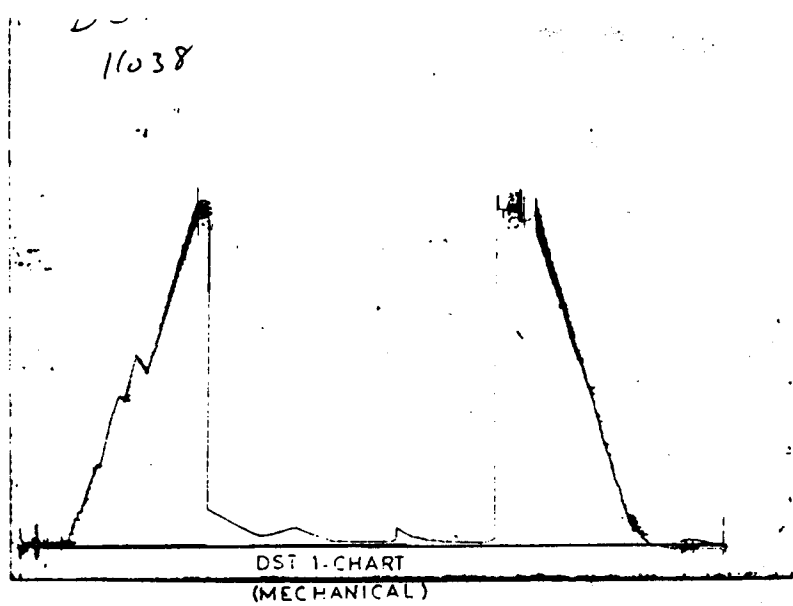
Sampler Recovery

Gas: None
Oil: None
H2O: None
Mud: 4000 ml
Pressure: 200 PSI
Tot Fluid: 4000 ml

Pit Mud Analysis

Chlorides: 1450 PPM
Viscosity: 60 sec/qt
Mud Weight: 9.2 lb/gal
Water Loss: 8.0 cc
L.C.M.: 2# lb/gal

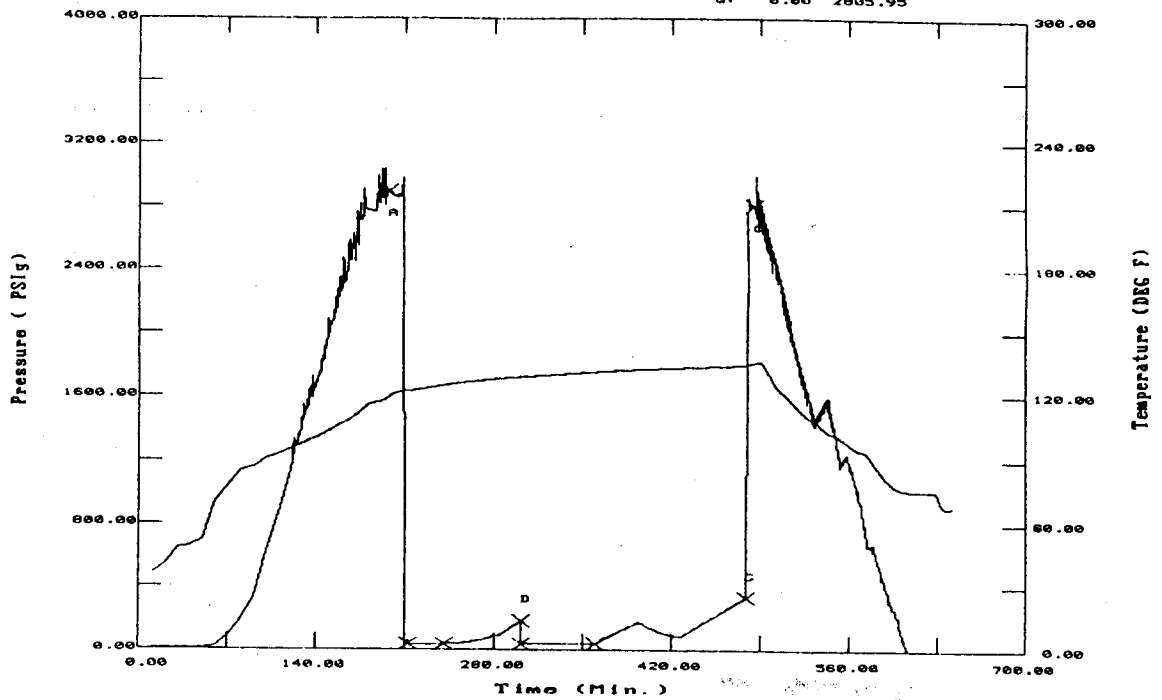
DST 1
11038



TEST HISTORY

9072 DST #1 Mary J. Betta #1-31 Zinke & Trumbo Inc.

Flag Points	(Min.)	(PSig)
A:	0.00	2095.42
B:	0.00	29.37
C:	27.00	32.30
D:	61.00	179.51
E:	0.00	30.37
F:	58.50	39.61
G:	119.50	330.03
H:	0.00	2005.95



DST 2) 6170 - 6280 (Miss. St. Louis "B" & "C" Zn)

Times 30-60-60-120

1st open: strong blow OBOB in 8 minutes
(bled off 2 inch flowline - 5 inch blowback)

2nd open: strong blow OBOB in 6½ minutes
(bled off 2 inch flowline - 6 inch plus blowback)

Rec: NO GAS TO SURFACE
NO GAS IN PIPE
NO SHOWS OF OIL ON GRINDOUT

2nd open: strong blow OBOB in 6½ minutes
(bled off 2 inch flowline - 6 inch plus blowback)

Rec: NO GAS TO SURFACE
NO GAS IN PIPE
NO SHOWS OF OIL ON GRINDOUT

380' Gas Cut Mud
300' Gas Cut Muddy Water
1100' Gassy Salt Water
1790' Total Fluid

Recorders-Electronic Alpine	Mechanical AK-1
IHYD: 3041	3067
IFP: 116-469	170-512
IBHP: 1790	1823
FFP: 479-873	525-908
FBHP: 1782	1811
FHYD: 2949	2951

Temp: 155 degrees F

Bottom Sampler

Sampler Recovery

Gas: Trace
Oil: None
H2O: 2600 ml
Mud: Trace
Pressure: 810 PSI
Tot Fluid: 2600 ml

Pit Mud Analysis

Chlorides: 2000 PPM
Viscosity: 57 sec/qt
Mud Weight: 9.2 lb/gal
Water Loss: 6.4 cc
L.C.M.: 4# lb/gal

Sampler Analysis

Resistivity: 0.14 ohms at 55 deg F
Chlorides: 80,000 PPM
Gravity: Not Available

Pipe Recovery

Top: 380' Gas Cut Drilling Mud
Resistivity: 1.99 ohms at 58 deg F
Chlorides: 4,800 PPM

Middle: 300' Gas Cut Muddy Water
Resistivity: 0.19 ohms at 58 deg F
Chlorides: 50,000 PPM

Bottom: 1,100' Gassy Salt Water
Resistivity: 0.14 ohms at 57 deg F
Chlorides: 78,000 PPM



DST 2 - CHART
(MECHANICAL)

TEST HISTORY

9482 DST#2 M. J. BETTS #1-31 ZINKE & TRUMBO INC.

Flag Points
PC PSIG
0.00 3041.44
0.00 117.14

TEST HISTORY

9482 DST#2 M.J. BETTS #1-31 ZINKE & TRUMBO INC

Flag Points	(Time)	PC (PSig)
A:	0.00	3041.44
B:	0.00	116.14
C:	29.00	468.90
D:	61.00	1790.00
E:	0.00	479.48
F:	58.00	872.95
G:	121.00	1781.99
H:	0.00	2949.38

