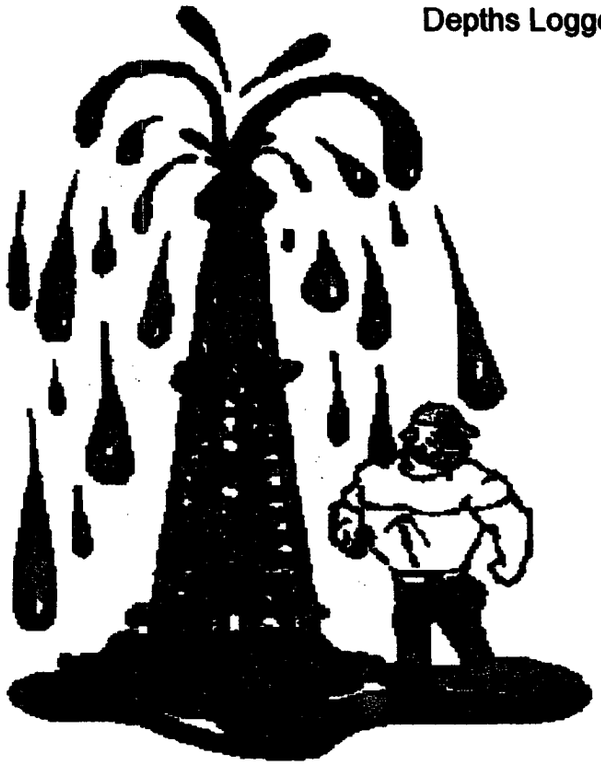
Woodco Logging Services, Inc.

Complete Hydrocarbon
Well Logging &
Well Consultants
3502 Cass Drive
Carlsbad, NM 88220
(505) 887-2469

Company : ELK OIL COMPANY
Well : MILLER STATE # 1
County & State : CHAVES, NEW MEXICO
Legal : SEC:2, TW: 8 so. RG:27 E.
Survey : 1200'FSL & 1980'FWL
Spud Date : 1/18/2003
Elevation : G.L. 3929 K.B. 3943
Loggers : JIM WOOD Jr.
Dates Logged : 1/19/2003 To 1/21/2003
Depths Logged : 600 To 2904

5"

30-005-63538



Lithology Symbols

- Sand
- Coal
- Limestone
- Chert
- Dolomite
- Shale
- Anhydrite
- Salt
- Silt
- Granite Wash

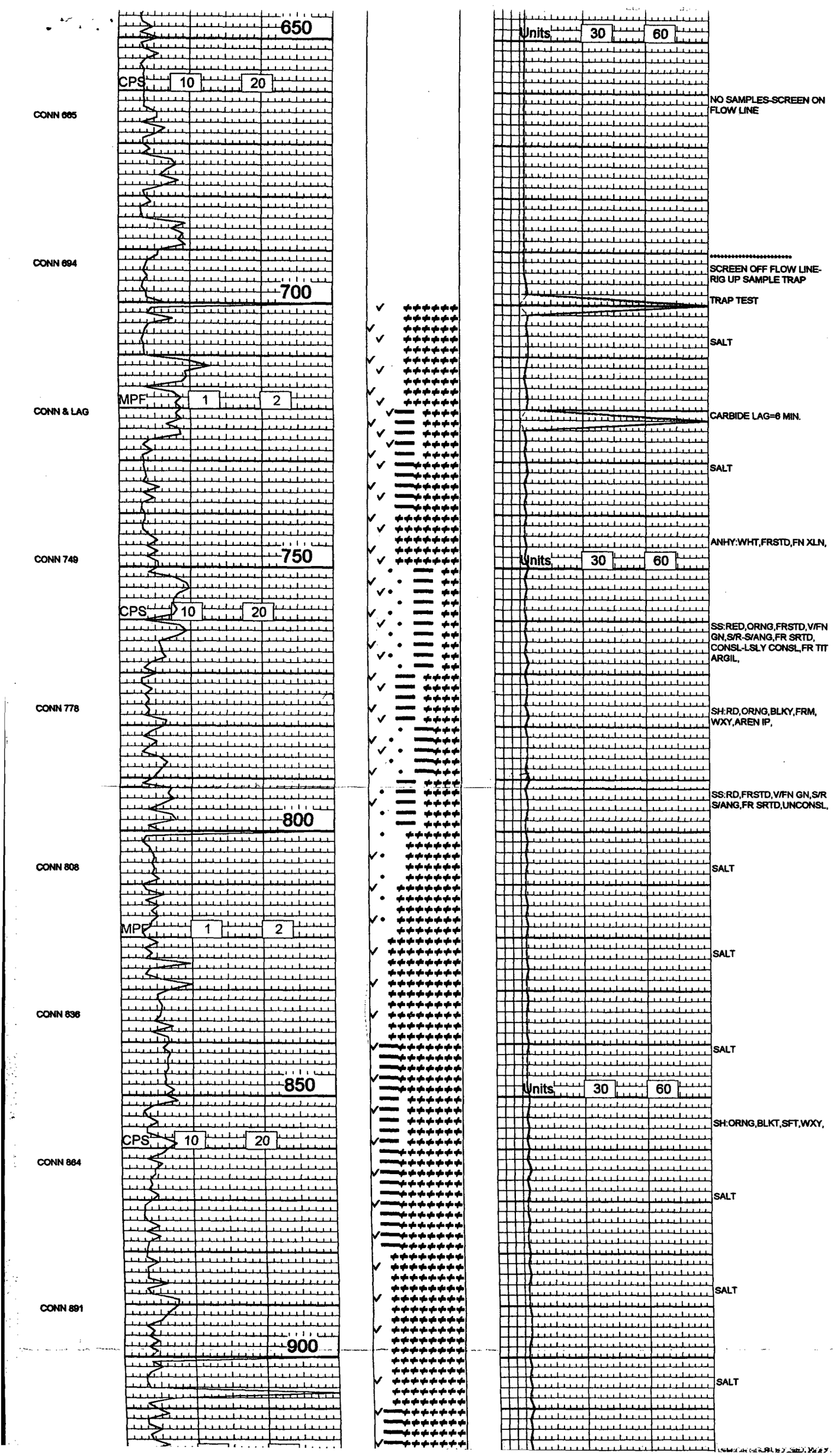
Abbreviations

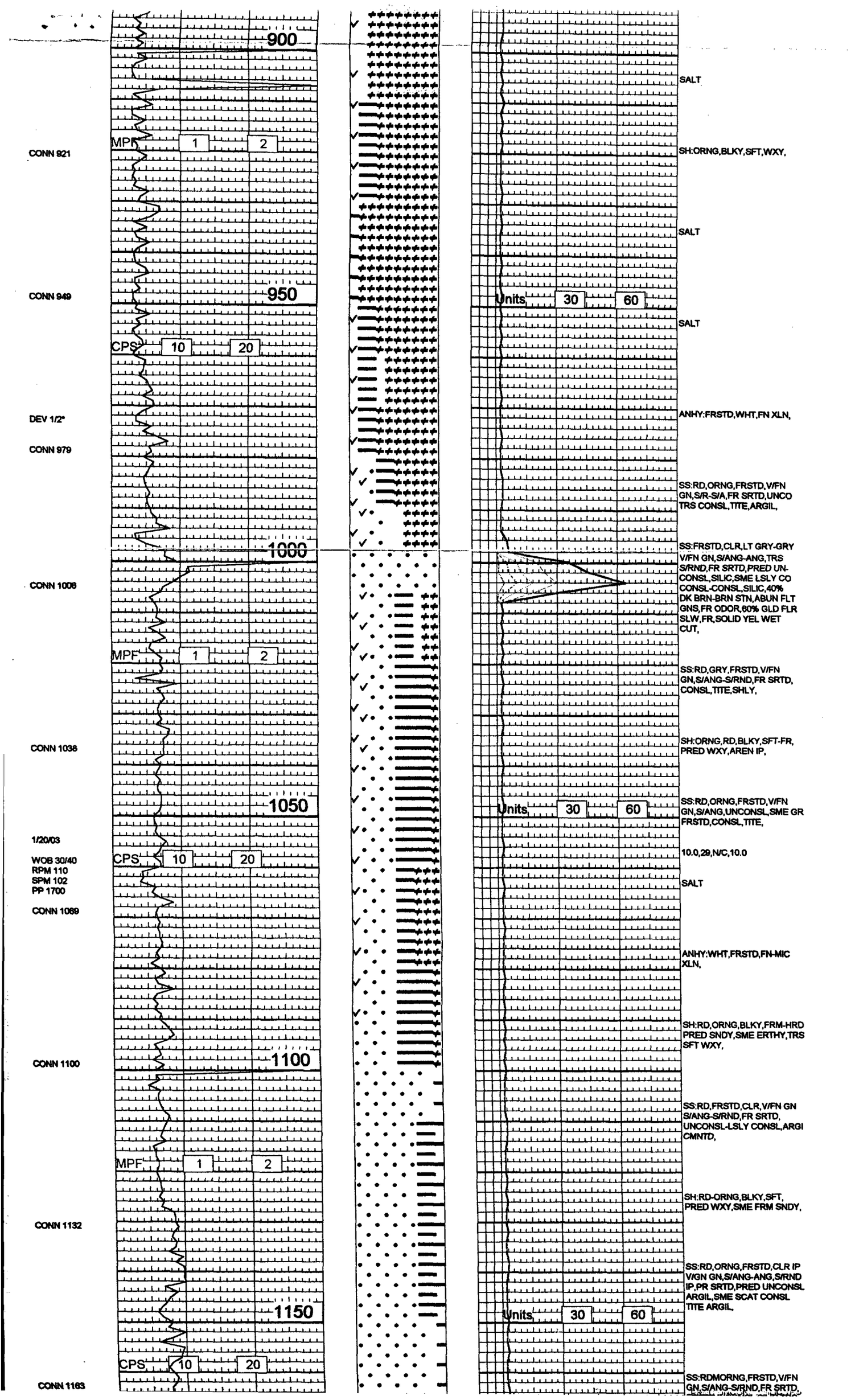
CG - Conn Gas	NB - New Bit
CO - Circ Out	NCB- New Core Bit
TG - Trip Gas	DCB- Diamond Core Bit
CS - Casing Seat	DS - Directional Survey
NR - No Returns	*DC - Depth Correction*
XO - Change Out	MD - Measured Depth
TIH - Trip In Hole	TOH - Trip Out Hole
HIP - Hole In Pipe	TVD - True Vertical Depth
BHA - Bottom Hole Assembly	
DST - Drill Stem Test	

Gas Chromatograph Lines

- Total Gas
- Methane
- Ethane
- Propane
- Isobutane
- Butane

Mech Data	Drilling Rate / Gamma Ray	Poro 25 -0%	Graphic Lithology	Flor 0 - 100	Cut PFG	Hydrocarbon Gases 1%C1 = 100 units	Sample Descriptions
NB#2 7 7/8 HTC HR 53							595'SET 8 5/8" CSG. BEGAN ONE MAN LOGGING 600'AT 6:05 PM 1/19/03
WOB 25 RPM 110 SPM 102 PP 1575							EQUIP CHECK
	MPF 1 2						********** NO SAMPLES-SCREEN ON FLOW LINE
							10.0,29,N/C,10.0
CONN 636							
							NO SAMPLES-SCREEN ON FLOW LINE
	650					Units 30 60	


650
CPS
10
20
CONN 665
CONN 694
700
MPF
1
2
CONN & LAG
CONN 749
750
CPS
10
20
CONN 778
800
CONN 808
MPF
1
2
CONN 836
850
CPS
10
20
CONN 864
CONN 891
900
Units
30
60
NO SAMPLES-SCREEN ON FLOW LINE
****
SCREEN OFF FLOW LINE-RIG UP SAMPLE TRAP
TRAP TEST
SALT
CARBIDE LAG=6 MIN.
SALT
ANHY:WHT,FRSTD,FN XLN,
Units
30
60
SS:RED,ORNG,FRSTD,V/FN GN,S/R-S/ANG,FR SRTD, CONSL-LSLY CONSL,FR TIT ARGIL,
SH:RD,ORNG,BLKY,FRM, WXY,AREN IP,
SS:RD,FRSTD,V/FN GN,S/R S/ANG,FR SRTD,UNCONSL,
SALT
SALT
SALT
Units
30
60
SH:ORNG,BLKT,SFT,WXY,
SALT
SALT
SALT


900
MPF
1
2
CONN 921
SALT
SH:ORNG,BLKY,SFT,WXY,
SALT
CONN 949
950
Units
30
60
SALT
CPS
10
20
DEV 1/2°
ANHY:FRSTD,WHT,FN XLN,
CONN 979
SS:RD,ORNG,FRSTD,V/FN GN,S/R-S/A,FR SRTD,UNCO TRS CONSL,TITE,ARGIL,
1000
SS:FRSTD,CLR,LT GRY-GRY V/FN GN,S/ANG-ANG,TRS S/RND,FR SRTD,PRED UN-CONSL,SILIC,SME LSLY CO CONSL-CONSL,SILIC,40% DK BRN-BRN STN,ABUN FLT GNS,FR ODOR,60% GLD FLR SLW,FR,SOLID YEL WET CUT,
CONN 1006
MPF
1
2
SS:RD,GRY,FRSTD,V/FN GN,S/ANG-S/RND,FR SRTD, CONSL,TITE,SHLY,
CONN 1038
SH:ORNG,RD,BLKY,SFT-FR, PRED WXY,AREN IP,
1050
Units
30
60
SS:RD,ORNG,FRSTD,V/FN GN,S/ANG,UNCONSL,SME GR FRSTD,CONSL,TITE,
1/20/03
WOB 30/40
RPM 110
SPM 102
PP 1700
CPS
10
20
10.0,29,N/C,10.0
SALT
CONN 1069
ANHY:WHT,FRSTD,FN-MIC XLN,
SH:RD,ORNG,BLKY,FRM-HRD PRED SNDY,SME ERTHY,TRS SFT WXY,
CONN 1100
1100
SS:RD,FRSTD,CLR,V/FN GN S/ANG-S/RND,FR SRTD, UNCONSL-LSLY CONSL,ARGI CMNTD,
MPF
1
2
SH:RD-ORNG,BLKY,SFT, PRED WXY,SME FRM SNDY,
CONN 1132
SS:RD,ORNG,FRSTD,CLR IP V/GN GN,S/ANG-ANG,S/RND IP,PR SRTD,PRED UNCONSL ARGIL,SME SCAT CONSL TITE ARGIL,
1150
Units
30
60
CPS
10
20
CONN 1163
SS:RDMORNG,FRSTD,V/FN GN,S/ANG-S/RND,FR SRTD,