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GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY SHAKESPEARE OIL COMPANY, INC.
LEASE GLASSMAN #3-35
FIELD UNNAMED
LOCATION 2200' FSL & 560' FEL
SEC 35 TWSP 12S RGE 32W
COUNTY LOGAN STATE KANSAS

ELEVATIONS
KB 2976
DF —
GL 2966
Measurements Are All From KB 2976

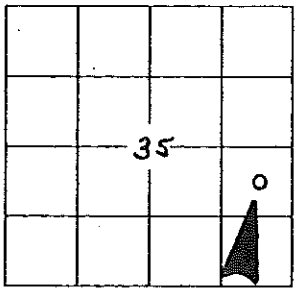
CONTRACTOR NO DRILLING, LLC #2
SPUD 4-5-2011 COMP 4-15-2011
RTD 4700 LTD 4697
MUD UP 3600 TYPE MUD CHEMICAL

CASING
SURFACE 8 5/8" @ 227'
PRODUCTION 5 1/2"

ELECTRICAL SURVEYS
WEATHERFORD: D.I.L., CDL/CNL, M.L. & Sonic

SAMPLES SAVED FROM 3800 TO RTD
DRILLING TIME KEPT FROM 3750 TO RTD
SAMPLES EXAMINED FROM 3800 TO RTD
GEOLOGICAL SUPERVISION FROM 3800 TO RTD
GEOLOGIST ON WELL STEVE DAVIS

FORMATION TOPS	LOG		SAMPLES
ANHYDRITE	2494	482	2493
B/ANHYDRITE	2518	458	2517
HEEBNER	3961	985	3966
LANSING	4006	1030	4007
MUNCIE CREEK	4149	1173	4153
STARK	4231	1255	4237
FORT SCOTT	4493	1517	4496
CHEROKEE SH	4516	1540	4520
JOHNSON ZONE	4560	1584	4563
MISSISSIPPI	4611	1635	4613



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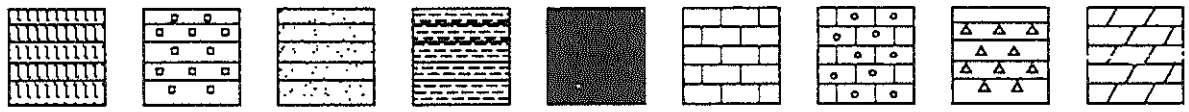
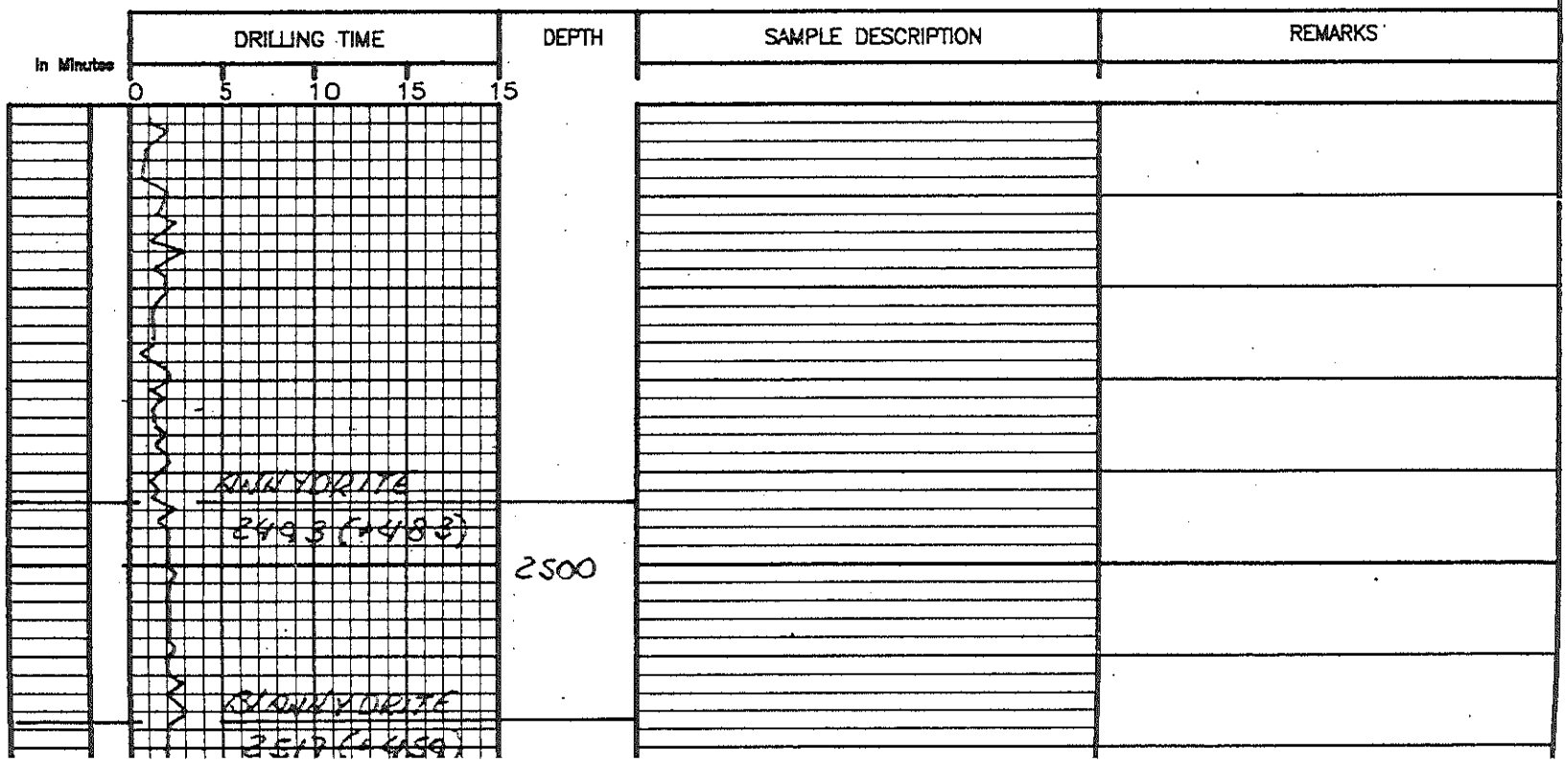
LEGEND

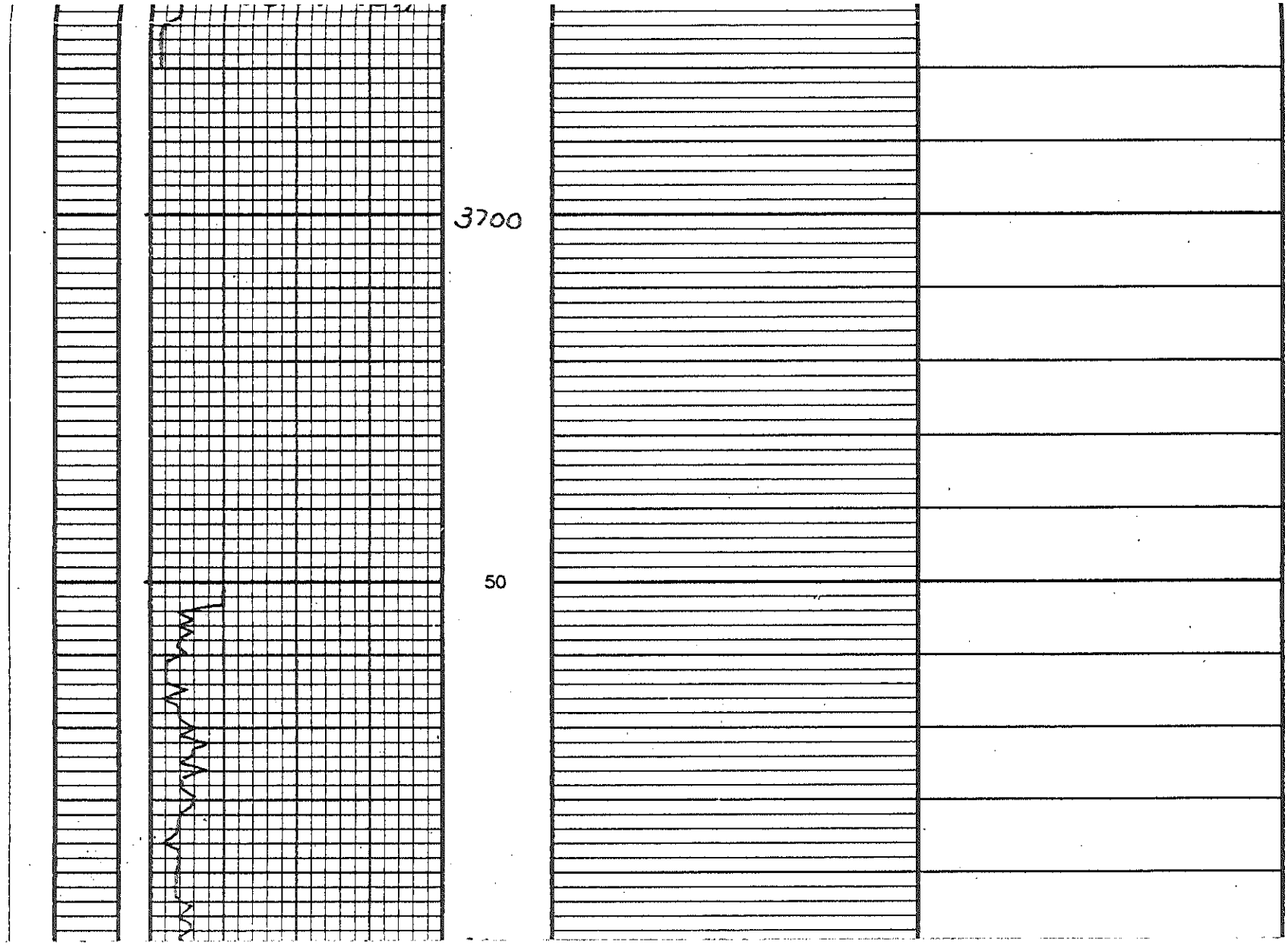


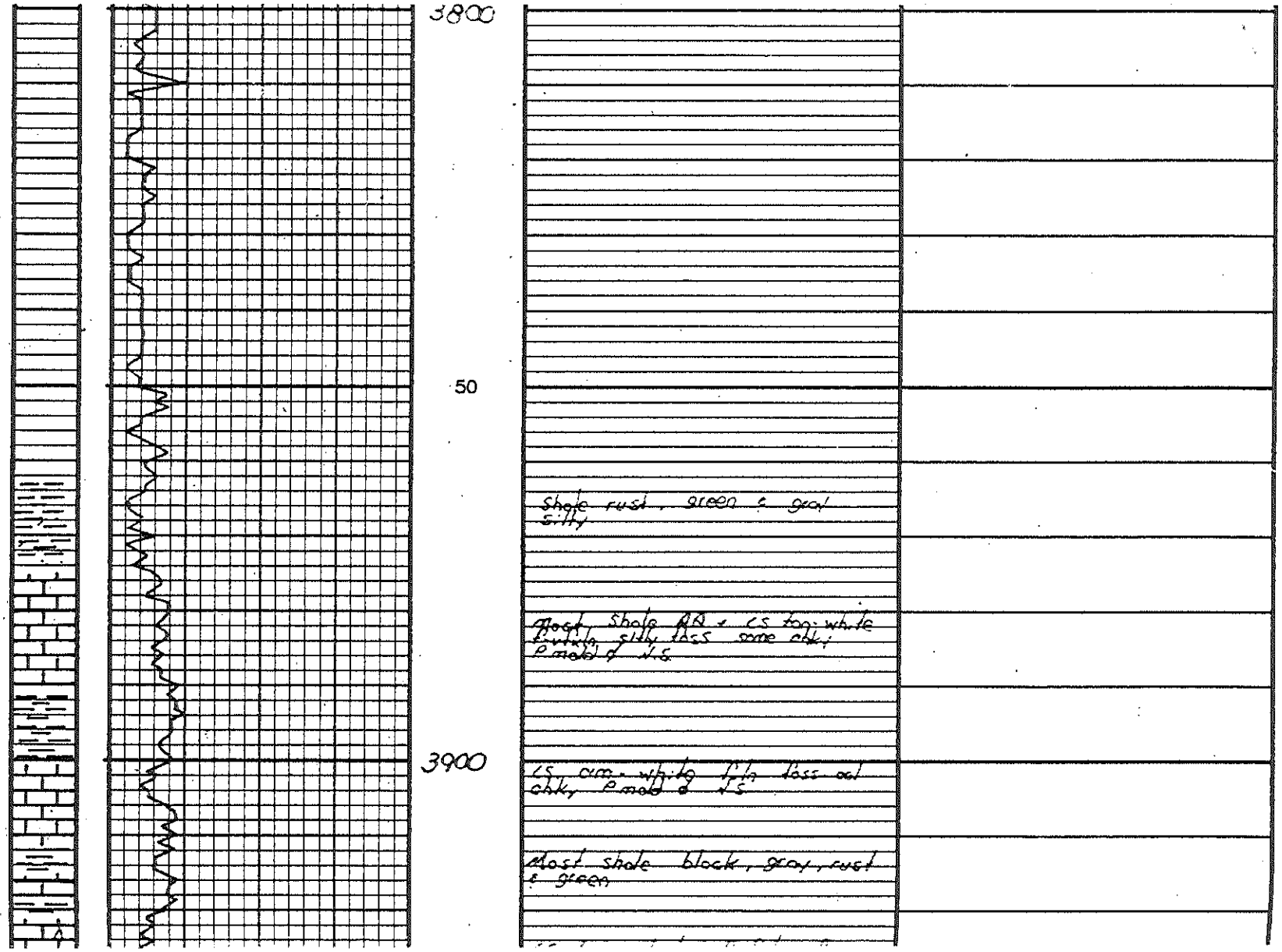
Anhydrite | Salt | Sandstone | Shale | Carb sh | Limestone | Ool.Lime | Chert | Dolomite

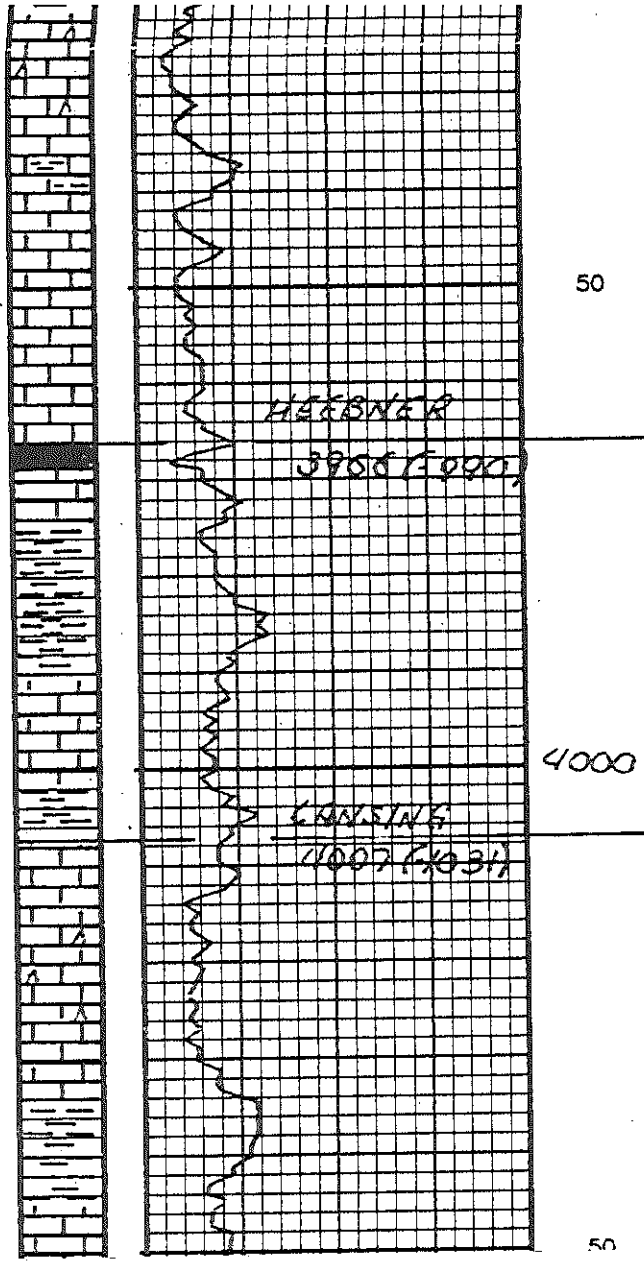
SCALE " = 100'



DAW03-6


3700
50


3800
50
Shale rust, green & gray silty
Most shale RR & CS top; white frntlg silty lass some chty; P mod of V.S
3900
LS cm. white fln lass ool chty, P mod of V.S
Most shale black, gray, rust & green



LS tan-gray white fine-med fossiferous chky Pxln ∅ N.S. & chd white-gray opq

LS tan-gray vfxln silty foss dense ∅

LS AA & abnt shale cust gray & green

LS off white, tan fxln col. foss IP Pmold ∅ N.S.

Shale black carb

LS tan-gray white silty foss dense ∅

Shale gray, black, cust & green shale silty

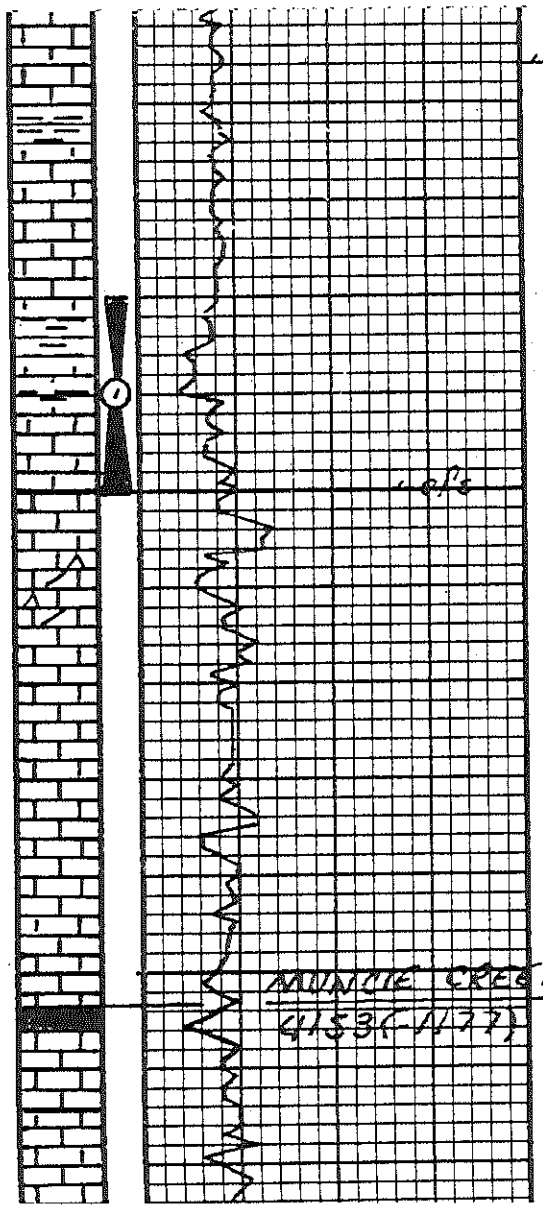
LS crm-white fxln foss. silty foss chky IP Pxln ∅ & P foss mold ∅ N.S. F.O.

Shale green & black

LS white-crm fxln silty pel-ool F.P. 100% & F.P. ool mold ∅ S.S. scattered, res oil rare sat'd dk stn N-odor & chd white

Shale green, gray & black

LS crm-tan fxln pel. foss P.xln ∅ & P mold ∅ some



chky, v.s.s. scummy, ~~cos oil~~, spl'd sta. dull spt'd fluor. nf odor

Abnt Shale, vary colo & LS crm. tan f.xf.xln ~~slow~~ tass frag. nvd dense

Abnt Shale gray, green, black & rust & LS AA

LS crm-brown f. sa xln p.f.xgxl & p.f.xln ⊕ s.s.f.o. spl'd-ugt sta, spt'd dull fluor, fat odor

LS crm. off white vf micro xln dense

Odo. f.xf.xln crm white f.p.inlad ns & cht white

Abnt Shale gray-green & LS crm. tan f.xf.xln silty ool p. ool molad ⊕ ns

LS crm-off white vf.xln chky nvd

LS tan vf micro xln dense nvd

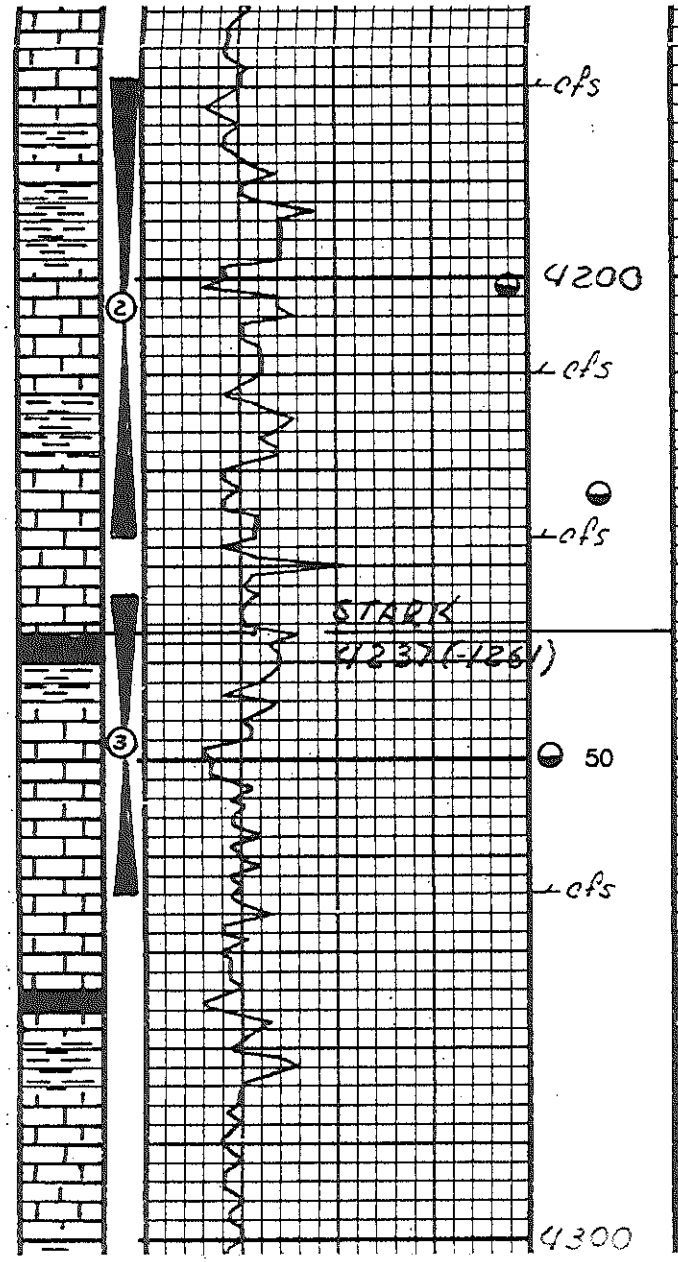
Shale black carb

LS crm-off white f.xln ool. tass chky, i.p. f.xln ⊕ ns & cht gray trans

Vis. 51 Wt. 9.3 Fil. 7.2
Chl. 1,300 PH 10.5 CCM 2#
(4-11-11)

DST #1 4080-4100
30-45-45-90
BLOW:
I.F. B.O.B. 18 min
I.S.I. No return
F.F. B.O.B. 27 min.
(Major plugging)
F.S.I. 2" return
RECOVERY: 305' G.I.P.
78' G.O. (25% G 75% O)
61' G.M.C.O. (20% G 50% O 30% M)
61' G.W.M.C.O.
(20% G 50% O 10% W 20% M)

200' TOTAL FLUID
I.H.P. 2046#
I.F.P. 18-70#
I.S.I.P. 1140#
F.F.P. 501-582#
F.S.I.P. 1017#
F.H.P. 2022# B.H.T. 119°F



CS crm-gray vf-m cry sbr dense NVØ

Vis. 49 Wt. 9.4 Fil. 8.0
Chl. 2,200 PH 10 CCM 2#
(4-12-11)

Most Shale black, gray & green

OST #2 4179-4227
30 - 30 - 45 - 90
BLOW:
I.F. 3½"
F.F. 2½"
(No return I.S.I. or F.S.I.)
RECOVERY:
195' M.C.W. (50% W 50% M)
2" Oil on top Chl. 56,000
I.H.P. 2084#
I.F.P. 21-84#
I.S.I.P. 1287#
F.F.P. 86-119#
F.S.I.P. 1296#
F.H.P. 2078# B.H.T. 117°F

Shale AA + CS crm-white f-vfxln sltly cal chky Pixlnd V.S.S.F.O. v-sbr dull Fluor ? fnt odor

CS tan-gray vf-vfxln dense NVØ & Shale gray, black & green

CS crm-white f-vfxln cal LP chky Pixlnd & Pcal mold & F.S.S.F.O. spd sbr spd dull Fluor F. odor

CS crm-gray vf-vfxln chky LP dense NVØ

Shale black carb, rust, green & gray

CS crm-gray f-vfxln cal. sltly cal Pcal mold & Pixlnd F.S.F.O. spd lt sbr, spd dull Fluor. F. odor

Vis. 52 Wt. 9.3 Fil. 8.8
Chl. 2,800 PH 10 CCM 2#
(4-13-11)

CS tan-gray vf-vfxln sltly fass cal dense NVØ

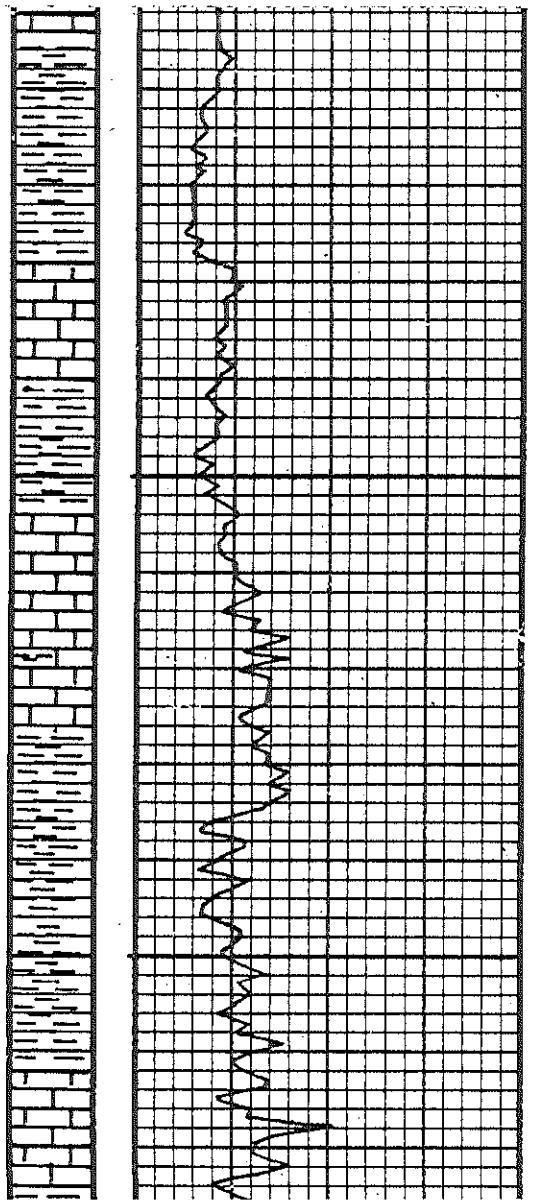
OST #3 4233-4264
30 - 30 - 30 - 30
BLOW:
I.F. surface blow
F.F. No blow
RECOVERY:
10' M (100% M)
I.H.P. 2112#
I.F.P. 17-22#
I.S.I.P. 1165#
F.F.P. 22-26#
F.S.I.P. 1080#
FHP 2082# B.H.T. 112°F

Shale black carb

Shale black, gray & green

CS gray-tan f-vfxln cal chky LP NVØ

CS tan-gray f-vf-vfxln few fass



50

4400

Inc. Shale black & gray & siltst gray

AA & shale rust & pyr

CS crm-white f-vfn sltly cal. foss chky fp vvd

CS AA w/ inc. shale black, rust & green

Shale green, black & rust

Most shale AA & CS crm-gray fvfn foss & mod ⌀ v.s.

Most shale green, rust & brown & CS AA

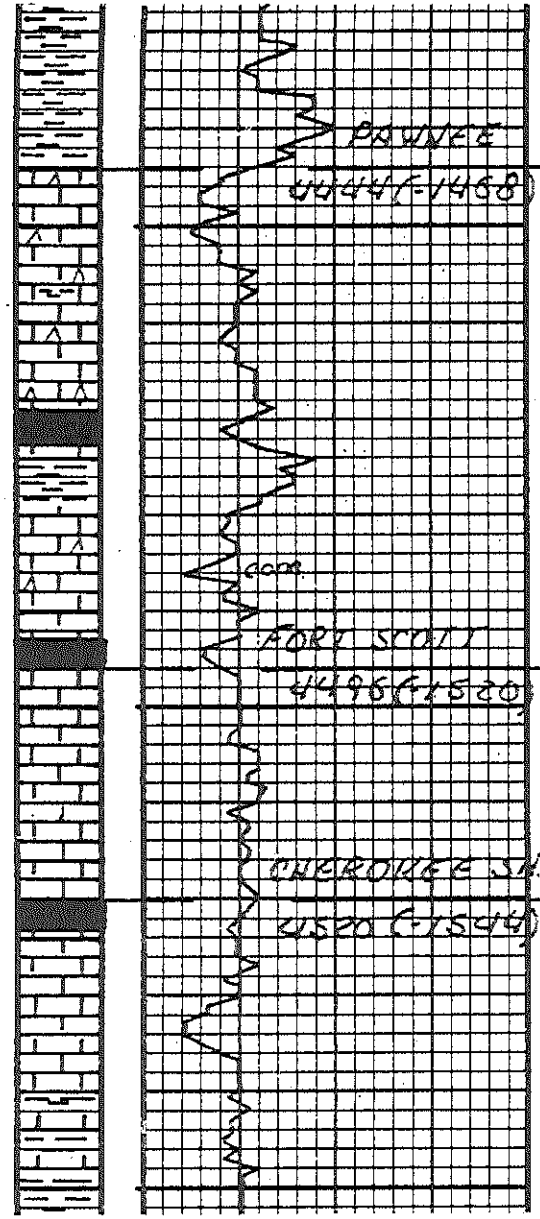
Shale green, rust, brown, silty & CS. tan vfvfn dense vvd

Shale AA & CS tan-white f-vfvfn sltly foss vvd

Most shale black, gray, green & rust

Abnt shale w/ inc. CS white crm f-vfvfn sltly foss chky fp vvd

Vis 56 wt 9.2 Fil 8.0
Chl. 2,500 PH 10.5 LCM 2#
(11-10-11)



Smpl's Poor

Mostl Shale mrl cab

Shale RR + Cht white & LS, tan gray f-xln slity, ool

Cht gray-white + LS tan-gray f-xln slty foss-ool NVP
Some chky

Shale black carb

Shale gray, black & green + LS brown micro xln dense

LS crm-off white f-xln ool foss IP chky NVP + Cht gray-white trans opq.

Shale black carb

LS crm tan f-xln ool foss IP some chky dense NVP

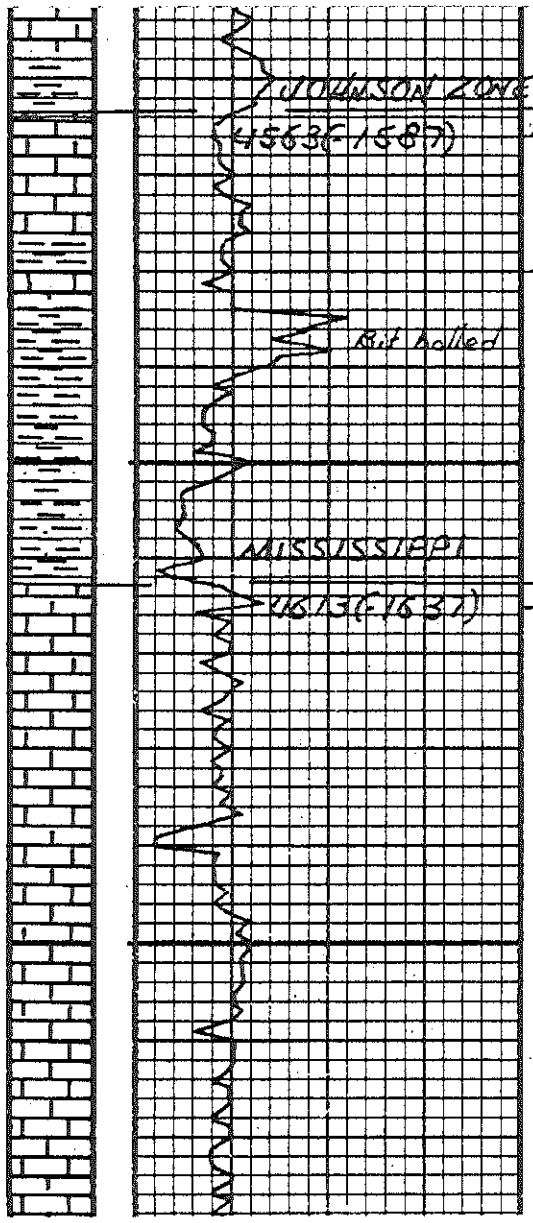
LS brown gray micro xln dense NVP

Shale black carb

LS crm-gray f-xln ool-ool IP chky few pcs Pisolid N.S.

LS tan-crm vf micro xln dense NVP + Cht tan

Shale black, gray & green + LS tan brown vf micro xln dense



Most Shale AA + LS brown - gray vf micro xln dense

LS brown - gray f-vfxln, od - mod LP f-p ixlp f-f pod S, F S F O spt'd dk sta, spt'd dull fluor. Ithodor

LS tan - crm vfxln nvd dense

Shale gray, green, rust, black & yellow

Shale vaci colo AA

Most Shale vaci. cplo wi few clus SS gray - clr Qtz f-vfgrn sub rd mod sort P, ggd ins silty glauc

SS AA + LS crm - white fxln sdy chky LP nvd

LS crm - white fxln silty sdy few od chky LP nvd + LS tan - white vfxln dense nvd

(Abot Shale slough)

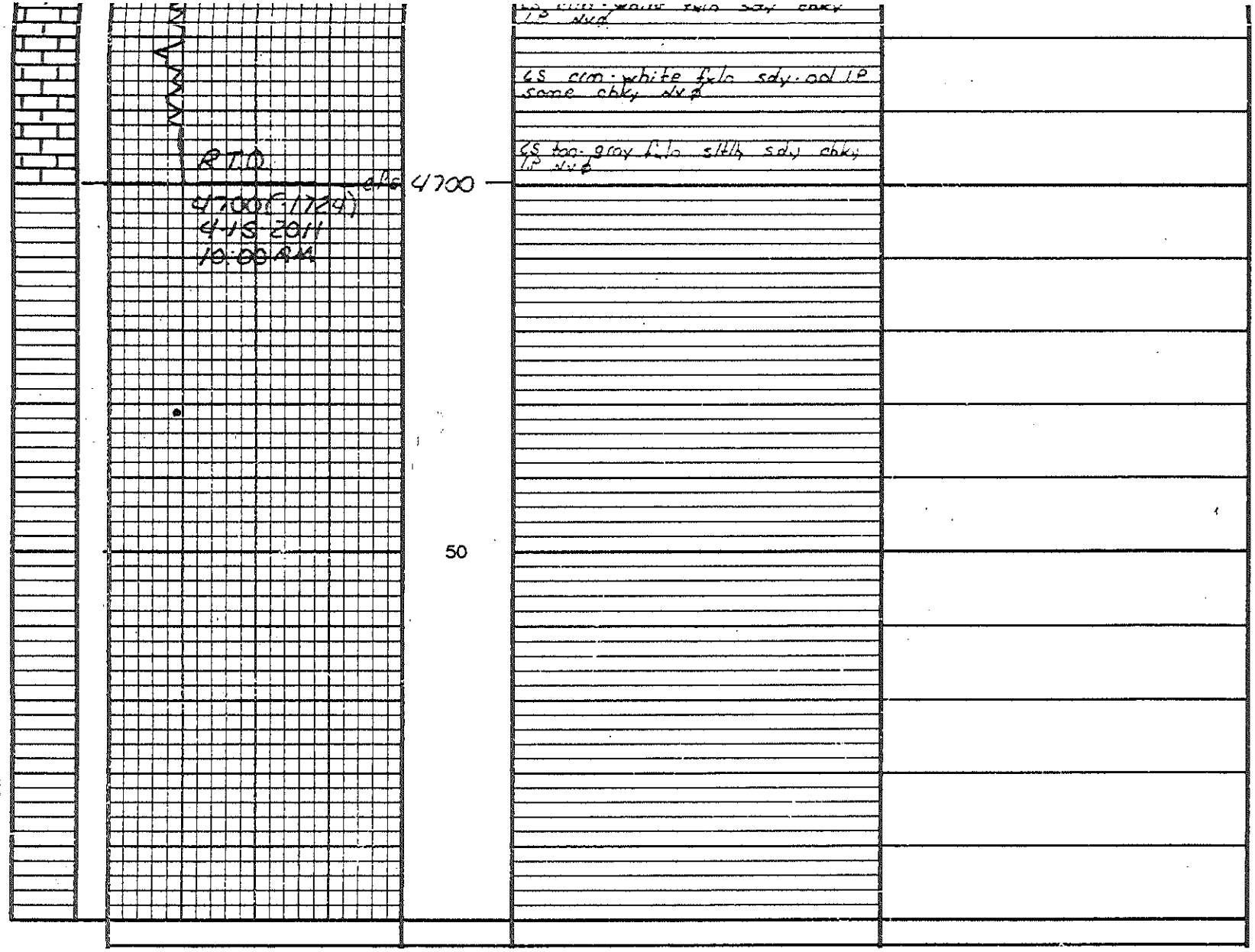
LS tan - crm fxln sdy chky LP nvd + LS tan vfxln dense nvd

LS crm - white fxln silty sdy - mod chky LP nvd + LS tan vfxln nvd dense

(Abot Shale slough)

LS crm - white fxln sdy chky LP nvd

Could not DST due to weather


LS cim-white fxlo sdy-od LP some chky dxp
LS too-gray fxlo sltly sdy chky LP dxp
RTD
4700
4700 (1724)
4-15-2011
10:00AM
50