

JUSTIN D. CARTER

CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: FISHER FARMS 9-11
Location: NE, SW, NE, SW Sec. 9 - 25S - 13W Stafford Co., KS
License Number: 15-185-23819-0000
Spud Date: 01/06/14
Surface Coordinates: 1722' FSL, 1972' FWL
Region: Priess Southwest
Drilling Completed:

Bottom Hole
Coordinates:
Ground Elevation (ft): 1941' K.B. Elevation (ft): 1949'
Logged Interval (ft): 3300' To: Total Depth (ft):
Formation:
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: ARES Energy, LTD
Address: 405 N. Marienfeld, Suite 250
Midland, TX 79701
Co. Rep: Mr. Henry Clanton

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Home: 620-624-5876, Cell: 620-655-1187

Comments

Drilling Contractor: Fossil Drilling Rig #2
Tool Pusher: Leroy Burgess

13 3/8" conductor casing set at 150'
8 5/8" surface casing set at 360'

Mud: MudCo
Engineer: Jason Whiting

Gas Detector: Earth Tech OGL, Inc.

DSTs:
Tester:

Open-Hole Loggers: Pioneer Wireline Services



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ares Energy, LTD
 405 N. Marienfeld
 Suite 250
 Midland, TX 79701
 ATTN: Justin Carter

9-23S-13W Stafford, Ks.
Fisher Farms #9-11
 Job Ticket: 51867 **DST#: 1**
 Test Start: 2014.01.15 @ 19:26:16

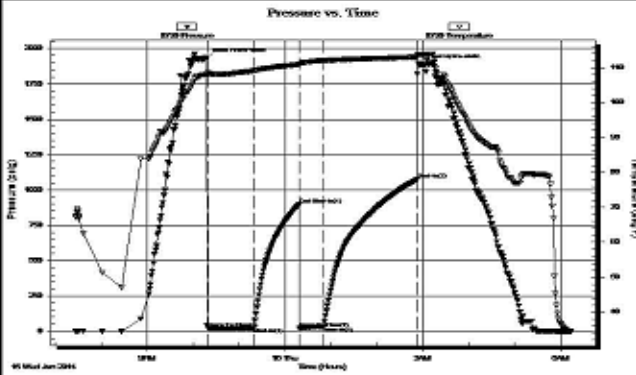
GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 22:20:01 Tester: Jimmy Ricketts
 Time Test Ended: 06:13:31 Unit No: 48
 Interval: **4010.00 ft (KB) To 4082.00 ft (KB) (TVD)** Reference Elevations: 1949.00 ft (KB)
 Total Depth: 4082.00 ft (KB) (TVD) 1941.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8790

Press@RunDepth: 23.69 psig @ ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.15 End Date: 2014.01.16 Last Calib.: 1899.12.30
 Start Time: 19:26:21 End Time: 06:13:31 Time On Btm: 2014.01.15 @ 22:17:01
 Time Off Btm: 2014.01.16 @ 02:59:01

TEST COMMENT: Strong blow throughout initial flow period. Gas to surface 30 minutes into initial flow period.
 No blow back during initial shut-in period.
 Strong blow throughout final flow period.
 No blow back during final shut-in period.



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1930.85	107.96	Initial Hydro-static
3	20.26	108.35	Open To Flow (1)
63	23.69	109.08	Shut-In(1)
122	895.35	110.84	End Shut-In(1)
123	18.54	110.83	Open To Flow (2)
154	32.10	112.01	Shut-In(2)
276	1073.77	112.99	Shut-In(3)
282	1882.33	113.72	Final Hydro-static

Length (ft)	Description	Volume (bbl)
50.00	Gassy Mud 11% G 89% M	0.25

	Choke (inches)	Pressure (psig)	Gas Rate (m ³ /d)
First Gas Rate	0.13	2.00	-
Last Gas Rate	0.13	2.00	-
Max. Gas Rate	0.13	2.00	-

Trilobite Testing, Inc

Ref. No: 51867

Printed: 2014.01.16 @ 07:07:33

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Slst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Slststn
- Shlyslts
- Sltyslts
- Lms

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

INTERVALS

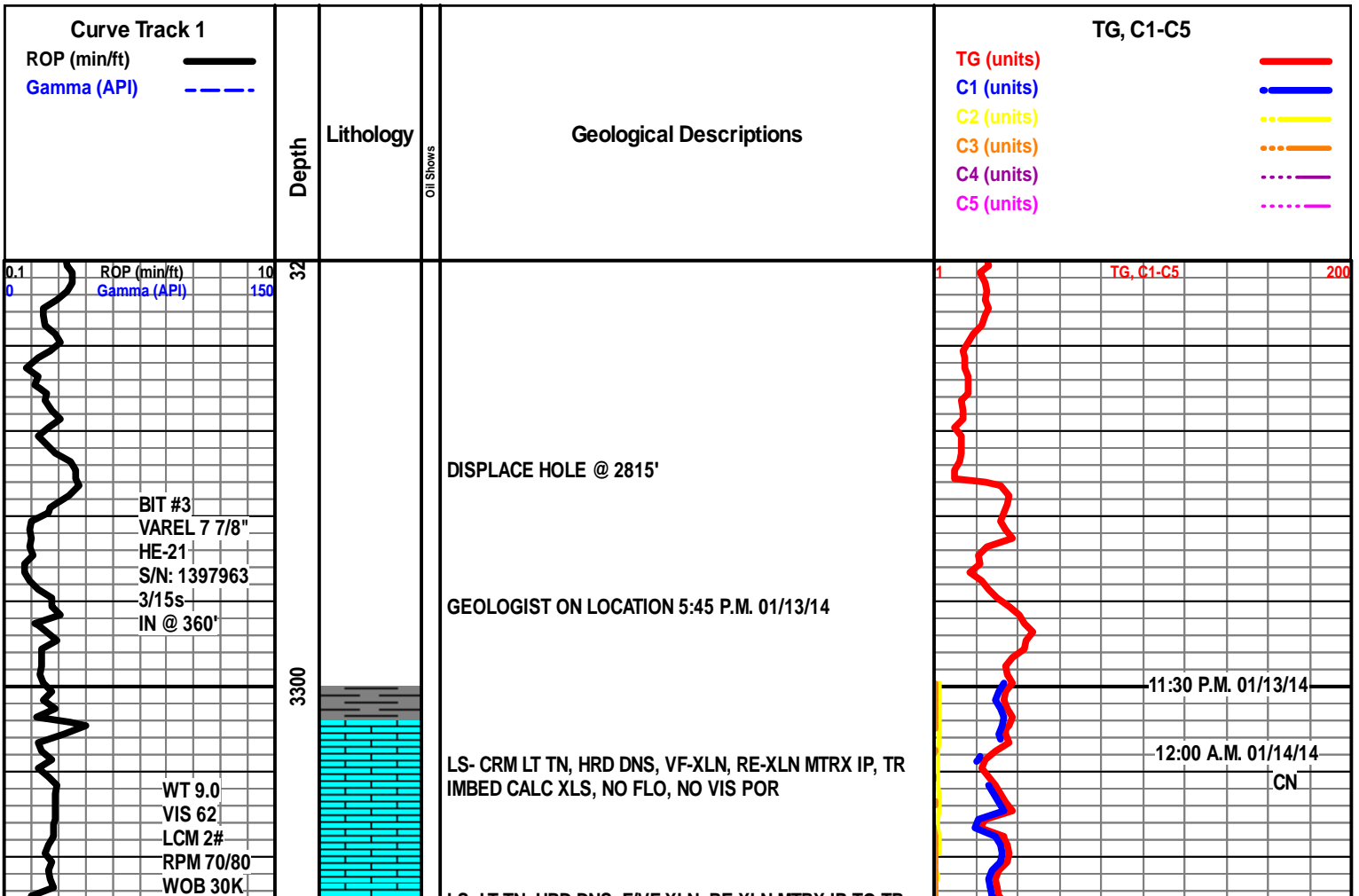
- Core
- Dst

- Dst

OIL SHOWS

- Even
- Spotted

- Ques
- Dead
- Gas show



PP 1000
SPM 52

LS- LI TN, HRD DNS, F/VF-XLN, RE-XLN MTRX IP TO TR
SUB-SUCRO MTRX, IMBED FOSS FRAGS IP (CRIN), NO
FLO, PR INTER-FOSS POR IP TO NO VIS POR IP, NS

35 U BG

LS- CRM LT TN, HRD, VF-XLN, SUB-SUCRO MTRX THRU
TO TR RE-XLN MTRX, WHT CHRT IP, NO FLO, TR
INTER-XLN POR TO NO VIS POR IP, NS

CN

LS- CRM, BRITT TO HRD IP, VF-XLN, SUB-SUCRO TO
SUCRO MTRX THRU, IMBED DK GY SH IP, TR IMBED
CALC XLS, SFT WHT CHLK IP, TR WHT CHRT, NO FLO, PR
INTER-XLN POR IP, NS

CN

LS- CRM LT GY, HRD, F/VF-XLN, SUB-SUCRO MTRX THRU,
IMBED FOSS FRAGS IP, TR SFT WHT CHLK, TR
INTER-XLN POR TO NO VIS POR THRU, NS

ROP (min/ft) 10
Gamma (API) 150

LS- TN, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO,
NO VIS POR

CN

TG, C1-C5 200

LS- TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED
FOSS FRAGS, NO FLO, NO VIS POR

CN

55 U BG

LS- CRM, HRD, VF-XLN, RE-XLN MTRX THRU, IMBED
FOSS FRAGS IP, TR CALC XLS IN CLUSTER, NO FLO, NO
VIS POR

LS- LT CRM, HRD, VF-XLN, RE-XLN MTRX IP, NO FLO, NO
VIS POR, TR BLK RESIDUAL OIL STAIN

CN

LS- LT CRM, HRD, VF-XLN, RE-XLN MTRX IP, TR VUGS, NO
FLO, TR INTER-VUG POR TO NO VIS POR THRU, TR BLK
RESIDUAL OIL STAIN

LS- LT CRM, HRD TO BRITT IP, VF-XLN, SUB-SUCRO MTRX
THRU, IMBED OOL SCAT THRU, TR OOLICASTS, NO FLO,
TR OOMLD POR, NS, TR BLK RESIDUAL OIL STAIN, NO
ODOR, NS

CN

HEEBNER 3511' (-1562')

105 U SHALE GAS

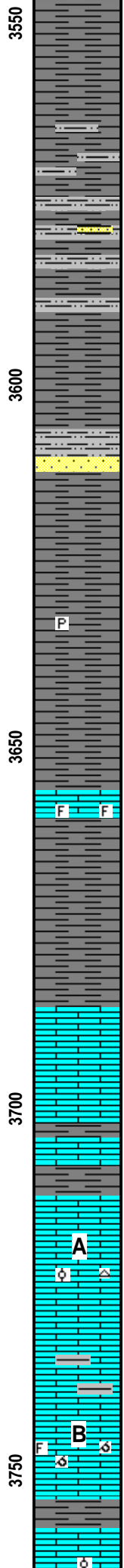
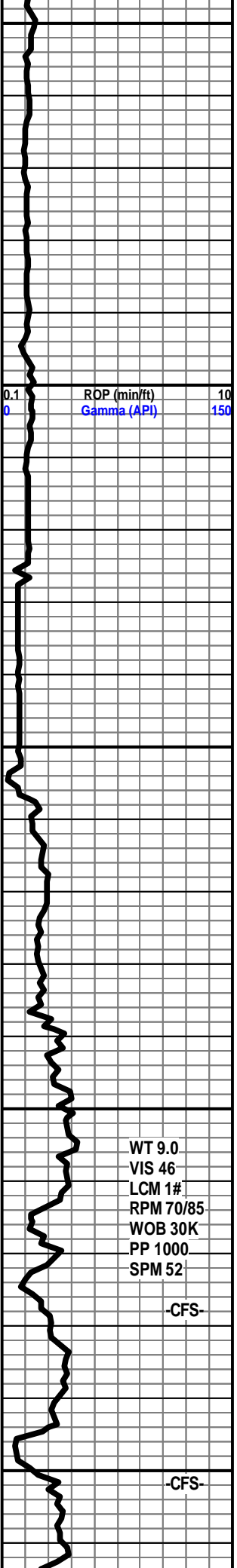
SH- GY, SFT, SLTY, BLKY IP TO GMMY IP

WT 9.1
VIS 47
LCM 2#
RPM 70/80
WOB 30K
PP 1000
SPM 52

LS- LT CRM, HRD, VF-XLN, SUB-SUCRO MTRX IP TO
RE-XLN MTRX IP TO TR SUB-CHLKY, NO FLO, NO VIS
POR

CN

DOUGLAS SH 3544' (-1595')



SH- RD GY, SFT, LMY, GMMY TO TR BLKY

CN

SH- DK GY, SFT, BLKY, LMY, TR SLTST

SLTST- GY, TT, F-GRNS, NO VIS POR, TR LT GY SS

CN

SH- DK GY, SFT, LMY, SLI GMMY, TR SLTST

TG, C1-C5

200

SS- LT GY OFF WHT, TT, F-GRNS, GD SRT, SUB-RND GRNS, CALC CMNT, DISS BLK SH IP, NO FLO, PR INTER-GRN POR SCAT THRU, NS

CN

SH- DK GY, FRM TO SFT, LMY IP TO SLTY IP, BLKY, TR PYR

80 U BG

SH-DK GY, FRM, BLKY, LMY, WXY TEXT

LS- BRN, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED BLK FOSS FRAGS IP, NO FLO, NO VIS POR

CN

SH- RD, FRM TO SFT, BLKY, LMY

BROWN LIME 3687' (-1738')

CN

LS- BRN LT GY, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, TR FINE CALC XLS, NO FLO, NO VIS POR

MUD CHECK @ 3714'
WT 9.0
VIS 46
LCM 1#
PV 14
YP 12
PH 10.5
FIL 7.2
CAL 80
CHL 5,400

L/KC 3713' (-1764')

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUB-SUCRO, NO FLO, TR INTER-XLN POR TO POSS FRAC POR, NS

CN

LS- LT CRM BFF, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN MTRX IP TO TR SUB-CHLKY, TR IMBED OOL, TR WHT CHR, TR V/DLL YEL FLO, FAINT SLO BLU STRM CUT, TR INTER-XLN POR TO TR MICRO PP POR, TR BLK RESIDUAL STAIN, NO ODOR

63 U SHOW

LS- BFF, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- LT CRM, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO MTRX THRU, OOLICASTS IP, IMBED FOSS FRAGS IP, TR V/DLL YEL MIN FLO, PR SLO BLU STRM CUT, PR OOMLD POR IP TO TR INTER-FOSS POR, TN STAIN IN 20%, FAINT ODOR

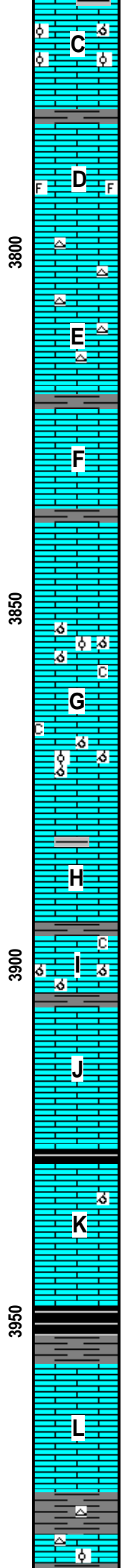
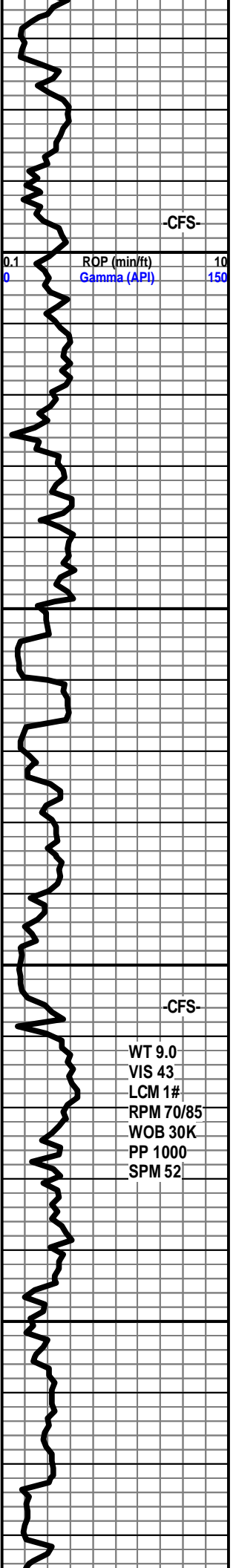
50 U SHOW

CN

WT 9.0
VIS 46
LCM 1#
RPM 70/85
WOB 30K
PP 1000
SPM 52

-CFS-

-CFS-



LS- CRM OFF WHT, BRITT, F-XLN, GRST TO TR SUCRO MTRX, IMBED OOL IP, TR SM OOLICASTS, TR FINE CALC XLS, NO FLO, NO FLO, PR OOMLD POR IP TO TR MICRO PP POR TO TR INTER-OOL POR, NS

LS- LT CRM, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO TO SUCRO MTRX THRU, IMBED FOSS FRAGS SCAT THRU, TR OPQ CHRT, V/DLL YEL FLO SCAT THRU, NO VIS CUT, TR INTER-FOSS POR TO TR INTER-XLN POR, NO STAIN, NO ODOR

LS- CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR V/FINE CALC XLS, OPQ CHRT IP, NO FLO, NO VIS POR

LS- CRM, BRITT TO HRD IP, F-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, NO FLO, PR INTER-XLN POR SCAT THRU, NS

LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, IMBED OOL IP, NO FLO, NO VIS CUT, NO VIS POR, TR BLK RESIDUAL STAIN, NO ODOR

LS- LT TN, BRITT, VF-XLN, SUB-SUCRO MTRX THRU, OOLICASTS THRU, TR OOL, NO FLO, FR OOMLD POR THRU, NS

LS- LT TN CRM, BRITT TO HRD IP, F/VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, OOLICASTS SCAT THRU, TR IMBED OOL, NO FLO, PR OOMLD POR THRU, NS

LS- BFF CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- LT CRM, BRITT TO HRD IP, F/VF-XLN, SUB-SUCRO MTRX THRU, OOLICASTS SCAT THRU, TR IMBED OOL, DLL YEL FLO IN 60%, PR SLO BLU STRM CUT, PR/FR OOMLD POR THRU, NO STAIN, NO ODOR

LS- BFF, HRD DNS, VF-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

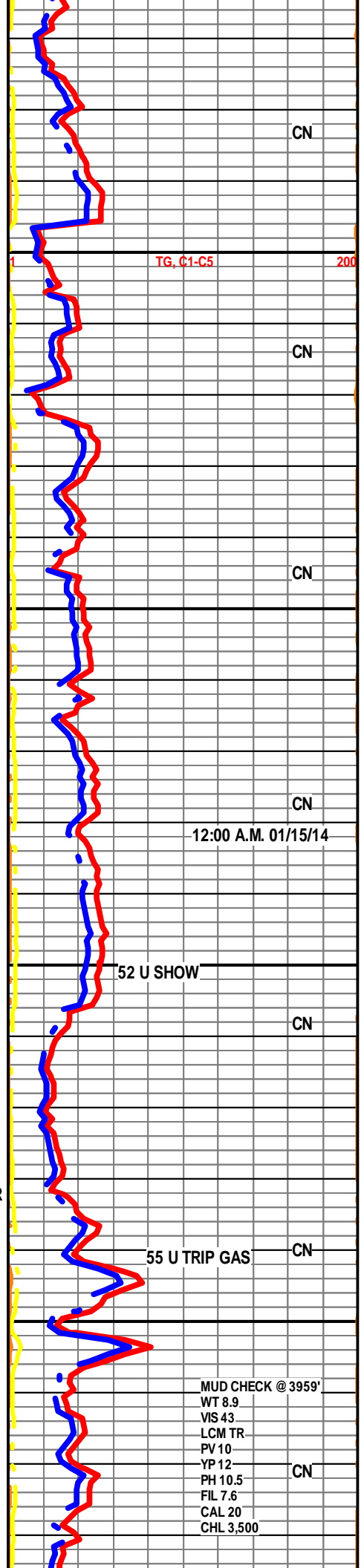
LS- TN BFF, HRD, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, TR OOLICASTS, TR DLL YEL FLO, NO VIS CUT, TR OOMLD POR TO TR INTER-XLN POR, NS

T.O.H. @ 3944' FOR PLUGGED BIT & PUMP ROD

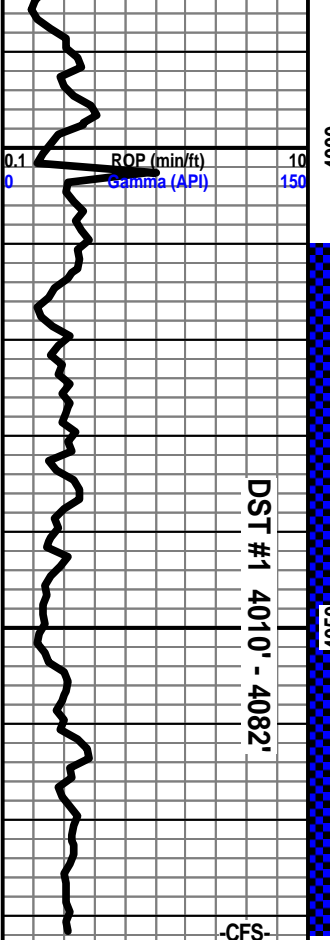
LS- CRM BRN, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR FINE CALC XLS, NO FLO, NO VIS POR

BKC 3973' (-2024')

LS- BFF CRM, HRD, VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO MTRX IP, IMBED OOL IP, NO FLO, NO VIS



MUD CHECK @ 3959'
 WT 8.9
 VIS 43
 LCM TR
 PV 10
 YP 12
 PH 10.5
 FIL 7.6
 CAL 20
 CHL 3,500



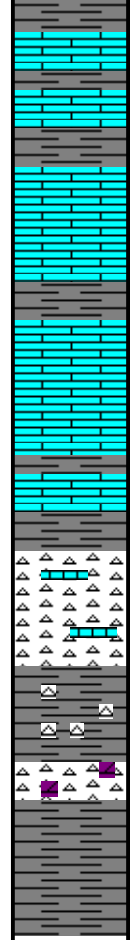
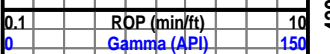
DST #1 4010' - 4082'

-CFS-

4100

4150

4200



SUB-SUCRO MTRX IP, IMBED OOL IP, NO FLO, NO VIS POR

LS- LT BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- LT GY, HRD DNS, VF-XLN, SUB-SUCRO MTRX THRU TO TR RE-XLN MTRX, DLL YEL FLO THRU, FAINT BLU STRM CUT, TR INTER-XLN POR TO NO VIS POR THRU, SCAT BLK/DK BRN STAIN, NO ODOR

LS- LT GRN CRM, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR DLL YEL FLO, PR SLO BLU STRM CUT, NO VIS POR, SCAT DK TN STAIN, FAINT ODOR

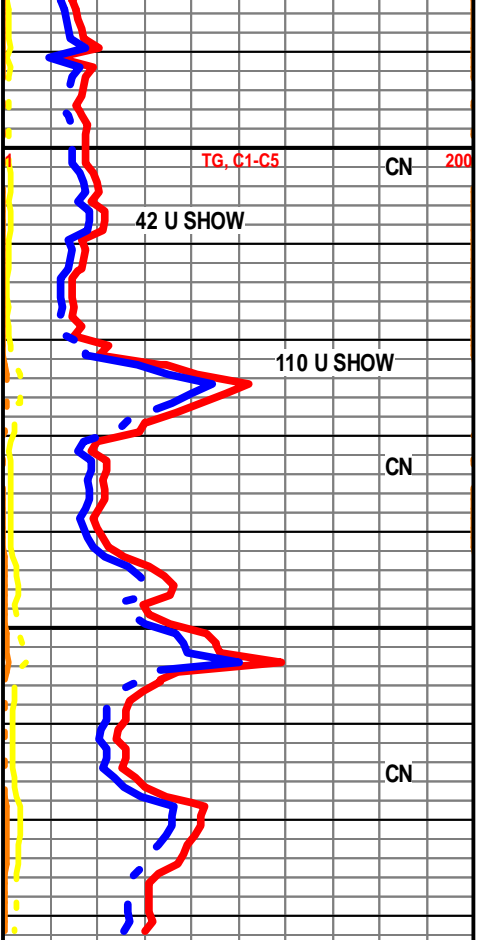
MISSISSIPPIAN 4043' (-2094')

CHRT- YEL OPQ, HRD DNS, TR LAM GY SH, BRIT YEL GLD FLO IN 70%, PR FLUSH TO FR SLO BLU STRM CUT, POSS FRAC POR, BLK/BRN STAIN IP, FAINT ODOR

LS- BRN TN, HRD, F-XLN, SUCRO MTRX THRU, SLI DOLOMITZ IP, BRIT YEL GLD FLO, PR FLUSH TO FR SLO BLU STRM CUT, PR INTER-XLN POR THRU, TN STAIN THRU, FAINT ODOR

DOLO- BRN, HRD, F-XLN, SUCRO MTRX THRU, DLL YEL GLD FLO TO BRIT YEL GLD WHEN CUT, OPQ WHT CHRT THRU, FR FLUSH TO GD SLO BLU CUT, PR INTER-XLN POR THRU, BRN STAIN THRU, NO ODOR, FREE OIL

SH- RD GRN GY, FRM, SLTY TO TR LMY, BLKY, GMMY IP



42 U SHOW

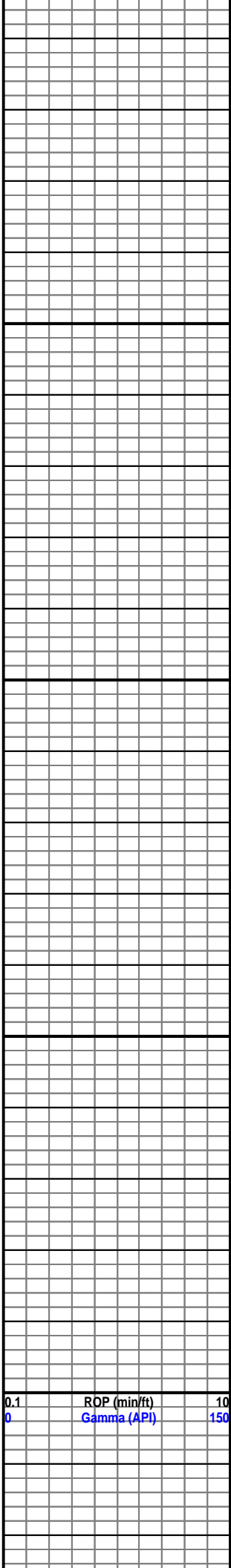
110 U SHOW

TG, C1-C5 CN 200

CN

CN

TG, C1-C5 CN 200



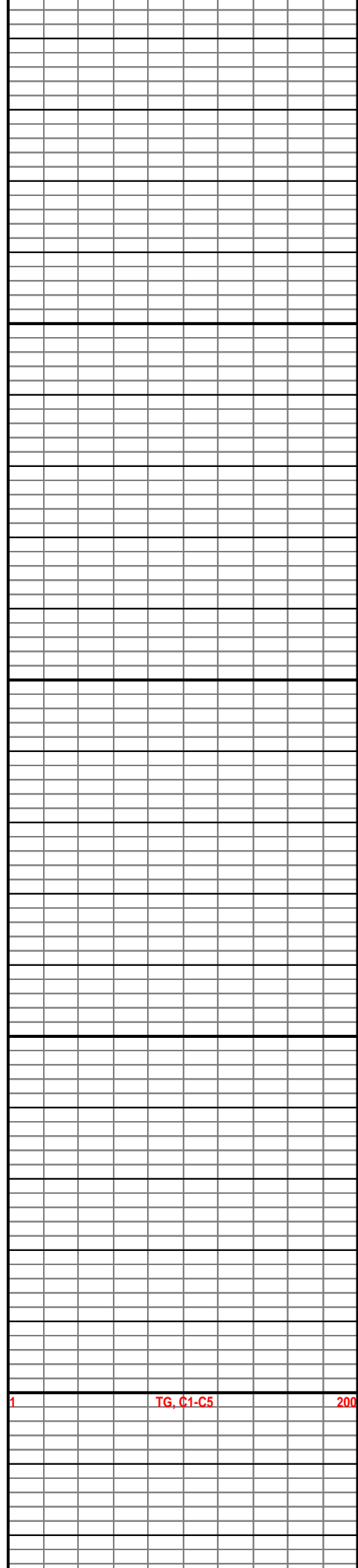
4250

4300

4350

4400

0.1 ROP (min/ft) 10
0 Gamma (API) 150



1 TG, C1-C5 200

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4450

A large graphical area consisting of a fine grid of small squares, identical in structure to the area on the left. A thick vertical line runs down the center of the grid, dividing it into two equal halves. The grid covers approximately the right two-thirds of the page's width.