

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MTM Petroleum Inc
2370 South State Rd 14
PO Box 391
Kingman Ks 67068-0391
ATTN: Marvin Miller, Aaro

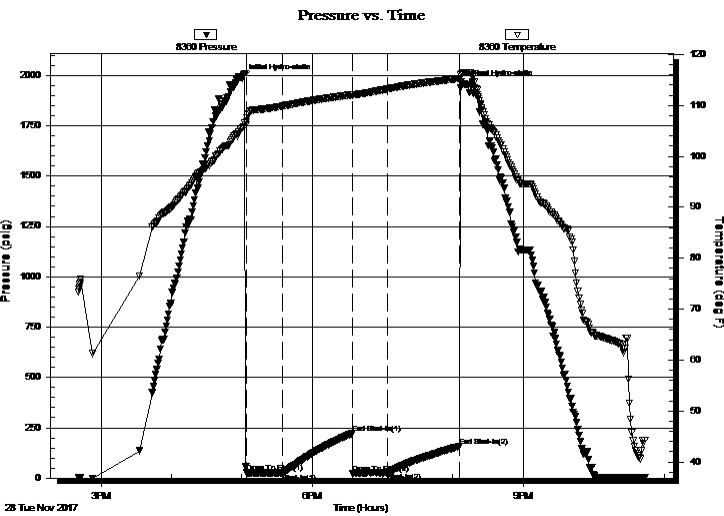
13-30s-8w Kingman
Leslie 1-13
Job Ticket: 63232 **DST#: 1**
Test Start: 2017.11.28 @ 14:40:54

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:04:04
Time Test Ended: 22:43:33
Interval: **4225.00 ft (KB) To 4272.00 ft (KB) (TVD)**
Total Depth: 4272.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Reference Elevations: 1532.00 ft (KB)
1524.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Initial)
Tester: Ray Schwager
Unit No: 77

Serial #: 8360 Inside
Press@RunDepth: 27.29 psig @ 4234.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.11.28 End Date: 2017.11.28 Last Calib.: 2017.11.28
Start Time: 14:40:54 End Time: 22:43:33 Time On Btm: 2017.11.28 @ 17:00:34
Time Off Btm: 2017.11.28 @ 20:10:48

TEST COMMENT: 30-IFP-BOB in 2min
60-ISIP-no bl bk
30-FFP-w k to a gd bl 1"to 7 1/2"bl
60-FSIP-no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1985.80	105.56	Initial Hydro-static
4	27.29	106.78	Open To Flow (1)
35	25.38	109.88	Shut-In(1)
94	221.34	112.10	End Shut-In(1)
94	22.56	112.04	Open To Flow (2)
124	27.29	113.24	Shut-In(2)
185	158.48	115.27	End Shut-In(2)
191	1955.19	116.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w / show of oil	0.21
0.00	480' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

MTM Petroleum Inc
2370 South State Rd 14
PO Box 391
Kingman Ks 67068-0391
ATTN: Marvin Miller , Aaro

13-30s-8w Kingman

Leslie 1-13

Job Ticket: 63232 **DST#: 1**

Test Start: 2017.11.28 @ 14:40:54

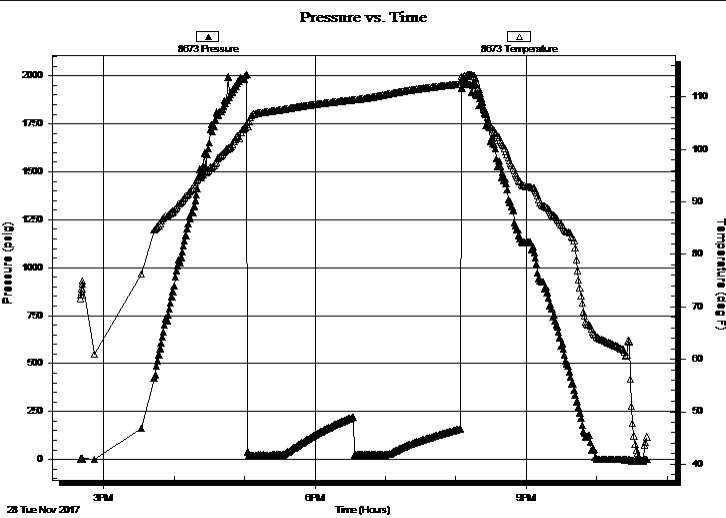
GENERAL INFORMATION:

Formation: Miss		
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 17:04:04		Tester: Ray Schwager
Time Test Ended: 22:43:33		Unit No: 77
Interval: 4225.00 ft (KB) To 4272.00 ft (KB) (TVD)		Reference Elevations: 1532.00 ft (KB)
Total Depth: 4272.00 ft (KB) (TVD)		1524.00 ft (CF)
Hole Diameter: 7.85 inches	Hole Condition: Fair	KB to GR/CF: 8.00 ft

Serial #: 8673 Outside

Press@RunDepth:	psig @ 4234.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2017.11.28	End Date:	2017.11.28
Start Time:	14:40:05	End Time:	22:42:44
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30-IFP-BOB in 2min
60-ISIP-no bl bk
30-FFP-w k to a gd bl 1"to 7 1/2"bl
60-FSIP-no bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w / show of oil	0.21
0.00	480' GIP	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

MTM Petroleum Inc
2370 South State Rd 14
PO Box 391
Kingman Ks 67068-0391
ATTN: Marvin Miller , Aaro

13-30s-8w Kingman
Leslie 1-13
Job Ticket: 63232 **DST#: 1**
Test Start: 2017.11.28 @ 14:40:54

Mud and Cushion Information

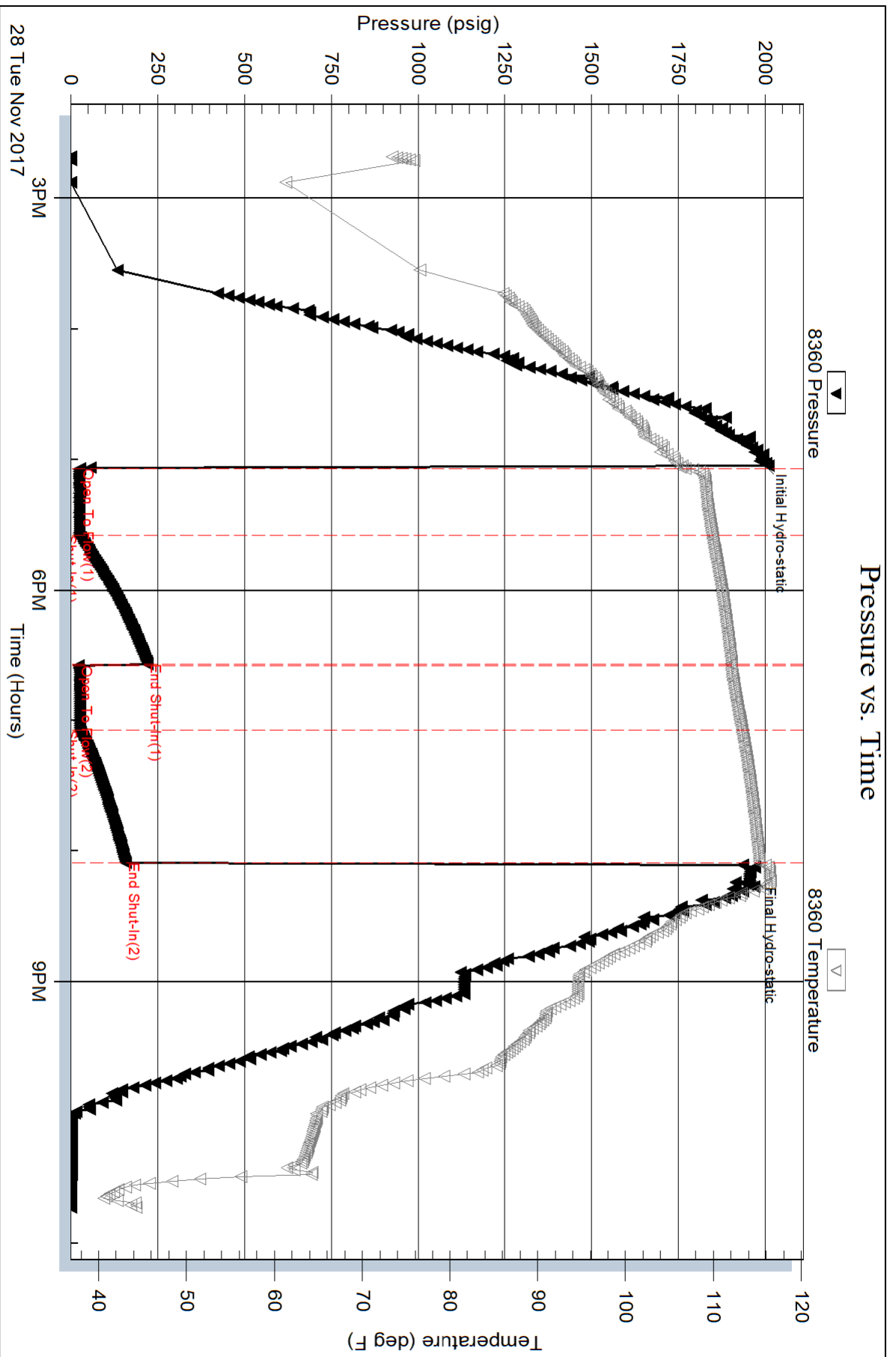
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.76 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w / show of oil	0.210
0.00	480' GIP	0.000

Total Length: 15.00 ft Total Volume: 0.210 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

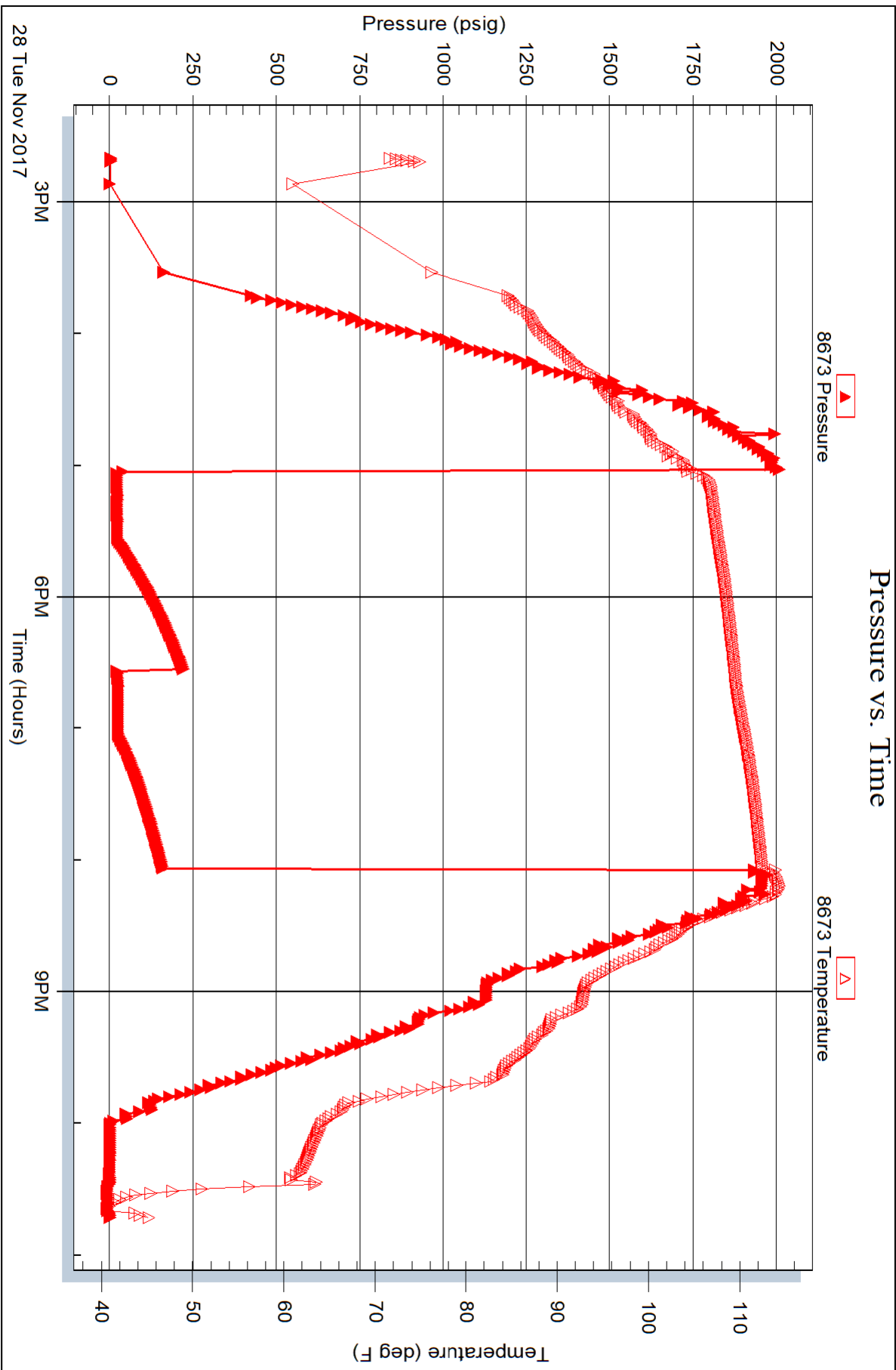


Serial #: 8673

Outside MTM Petroleum Inc

Leslie 1-13

DST Test Number: 1



Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Leslie #1-13
API: 15-095-22316
Location: Section 13 - T30S - R8W
License Number: 6236
Spud Date: 11/20/2017
Surface Coordinates: 1135' FSL and 330' FEL
Approx. N2 - NE - SE - SE
Region: Kingman Co., KS
Drilling Completed: 11/30/2017

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 1524' **K.B. Elevation (ft):** 1532'
Logged Interval (ft): 3000' **To:** 4650' **Total Depth (ft):** 4650'
Formation: Simpson
Type of Drilling Fluid: Chemical - Mud-Co

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

OPERATOR

Company: MTM Petroleum, Inc.
Address: PO Box 391
Kingman, KS 67068+0391

GEOLOGIST

Name: Aaron L. Young, M.S.
Company: Young Consulting LLC
Address: 100 S Main, Suite 505
Wichita, Kansas 67202

General Info

CONTRACTOR: Duke Drilling, Rig #8

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	JZ RR	18-18-18	223	215	5.25
2	7-7/8	HA23X	15-15-15	4650	4427	140.50

SURVEYS: 223'-1, 1200'-2, 1736'-1, 4272'-1, 4650'-1.75

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 32,000 - 38,000 lbs. on bit and approx 65-75 RPM.
Running 8 stands of collars; 474'
Pumping approx 500-700 psi at standpipe.

Daily Status

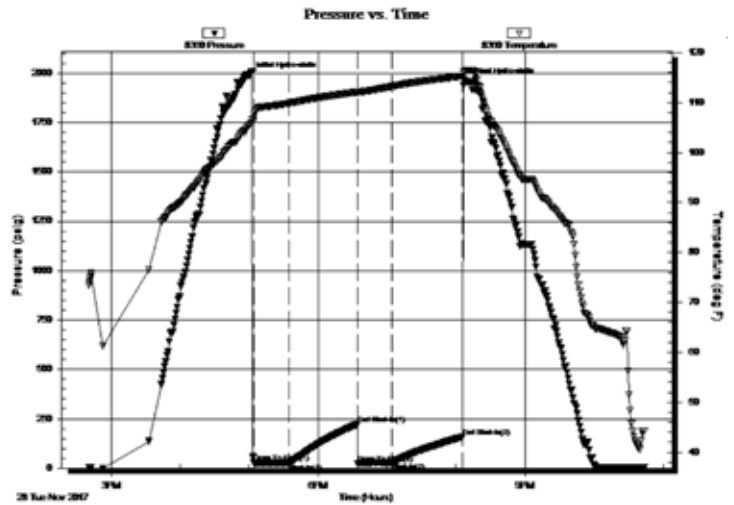
11/21/17 - Spud @ 5:15am, Ran 5 jts of New 8 5/8" 24# surface casing set @ 210', cmt w/ 165 sx 60/40 poz, 2% gel, 3% CC, 1/4# flake. PD @ 7:00am
 11/22/17 - Drilling @ 950'
 11/23/17 - Drilling @ 1745'
 11/24/17 - Drilling @ 2475'
 11/25/17 - Drilling @ 3055'
 11/26/17 - Drilling @ 3590'
 11/27/17 - Drilling @ 3988'
 11/28/17 - DST #1 4225'-4275'
 11/29/17 - Drilling at 4308'
 11/30/17 - RTD @ 4250', plugging well.

DST #1 4225' - 4272'
MISSISSIPPIAN
 30 - 60 - 30 - 60

IF: BOB IN 2 MIN
ISI: NO BLO BACK
FF: WK TO GD BLO BLD 1" TO 7.5"
FSI: NO BLO BACK

REC: 15' mud w/ show of oil
480' GIP

SIP: 221-158# FP: 27-25#, 23-27# HP: 1986-1955#



ROCK TYPES

<ul style="list-style-type: none"> Anhy Bent Brec Cht Clyst Coal Congl Dol 	<ul style="list-style-type: none"> Gyp Igne Lmst Meta Mrlst Salt Shale Shcol 	<ul style="list-style-type: none"> Shgy Slstst Ss Till Carb sh Dol Dtd Gry sh 	<ul style="list-style-type: none"> Sandylms Shale Slststn Shlyslts Sltysh Lms
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ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclfrag
- 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

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

STRINGER

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

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

TEXTURE

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

OTHER SYMBOLS

POROSITY TYPE

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

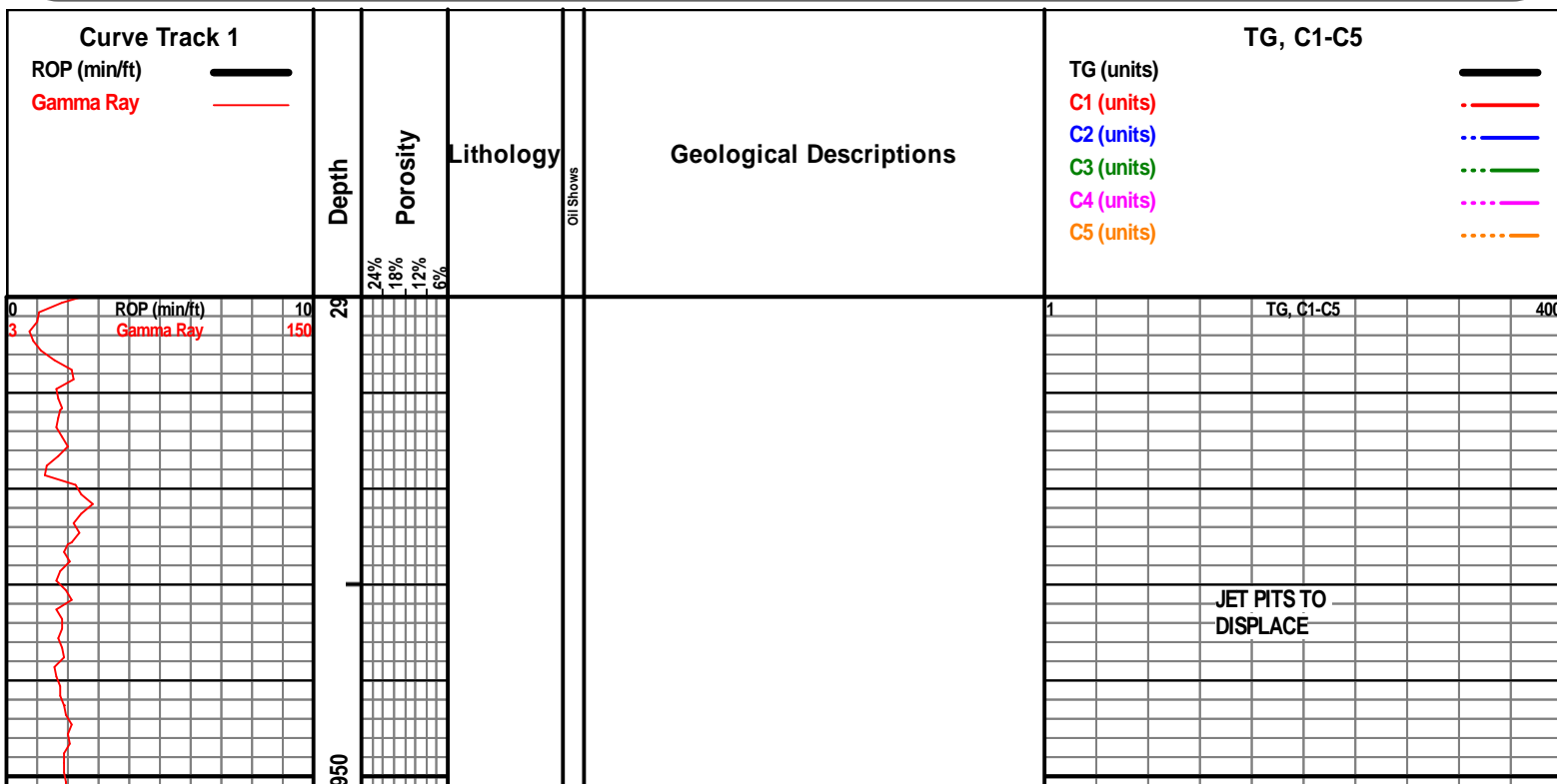
INTERVALS

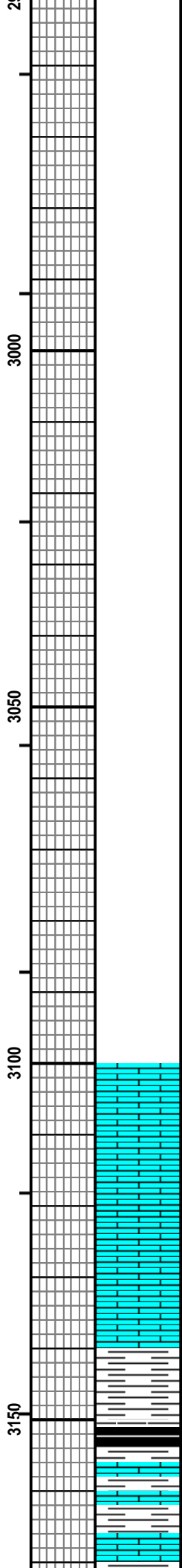
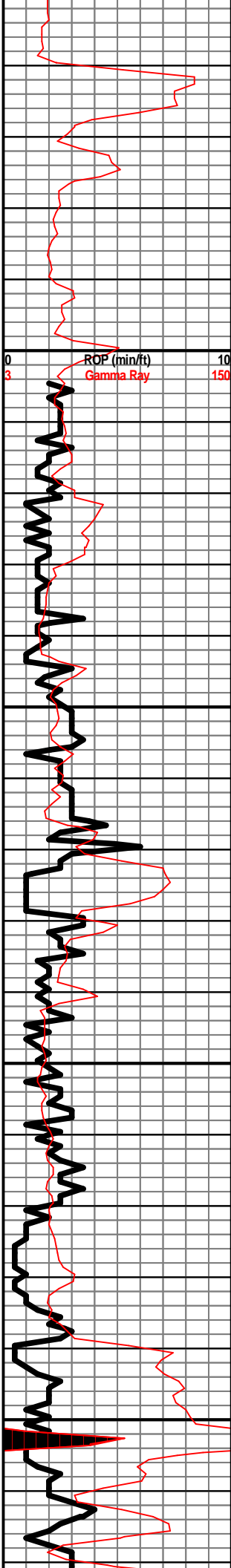
- Core
- Dst

- Dst

EVENTS

- Rft
- Sidewall
- Conn





LS - CRM / TAN, F XLN, MOD DNS / DSN, FOSS

LS - TAN / GY, F XLN, V DNS, FOSS IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY IN PT

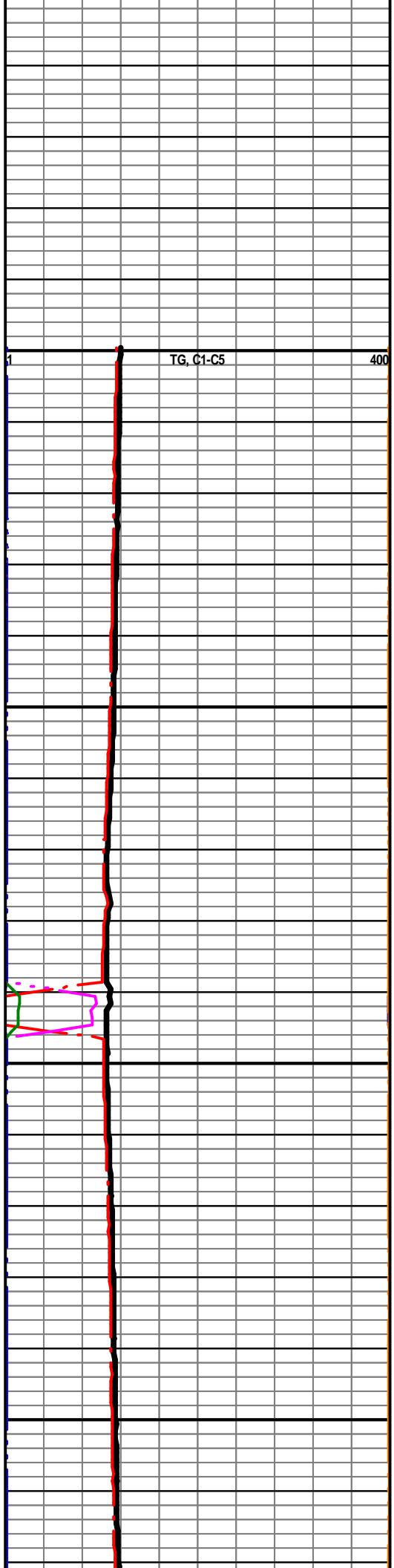
LS - WHT / CRM, VF / F XLN, SUBCHKY / CHKY

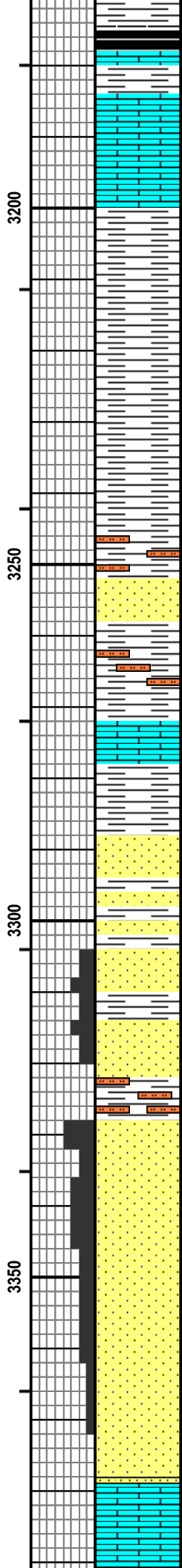
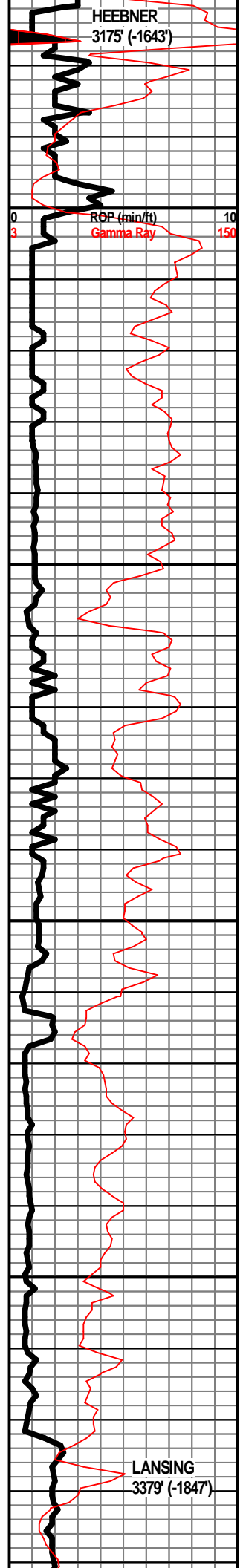
SH - GY

SH - BLK, CARB, W/ SH - GY, LMY

LS - CRM / TAN, F XLN, MOD DNS, W/ SH - GRN / MAR / RD

LS - TAN / GY, F XLN, MOD DNS / SUBCHKY, W/ SH - GRN / GY





SH - BLK, CARB, W SH-GRN / GY / RD

LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, W SH - RD / GRN

LS - CRM / TAN, VF / F XLN, MOD DNS, STYLOLITIZED, FOSS IN PT

SH - LT GY / GRN IN PT

SH - GY / GRN / MAR

SH - GY / GRN / PURP

SH - GY / GRN

SH - GY, SLTLY SILTY IN PT

SS - CLR / GY, BLK SPECS, VF GR, SUB RD, W SRTED, MOD CEM, NO VIS POR, NS, NO ODOR, NO FLUOR, W SH - GY SLTY

SH - LT GY

SH - GRN / GY, W LS - CRM, F XLN, MOD DNS, FOSS IN PT

SH - LT GY / GRN

SS - GY / CLR, VF GR, SUB RND, W SRTED, W CEM, NO VIS POR, NO ODOR, NO FLUOR

SS - CLR / GY, VF / F GR, SUB RND, W SRTED, F INTGR POR, NS, NO ODOR, NO FLUOR

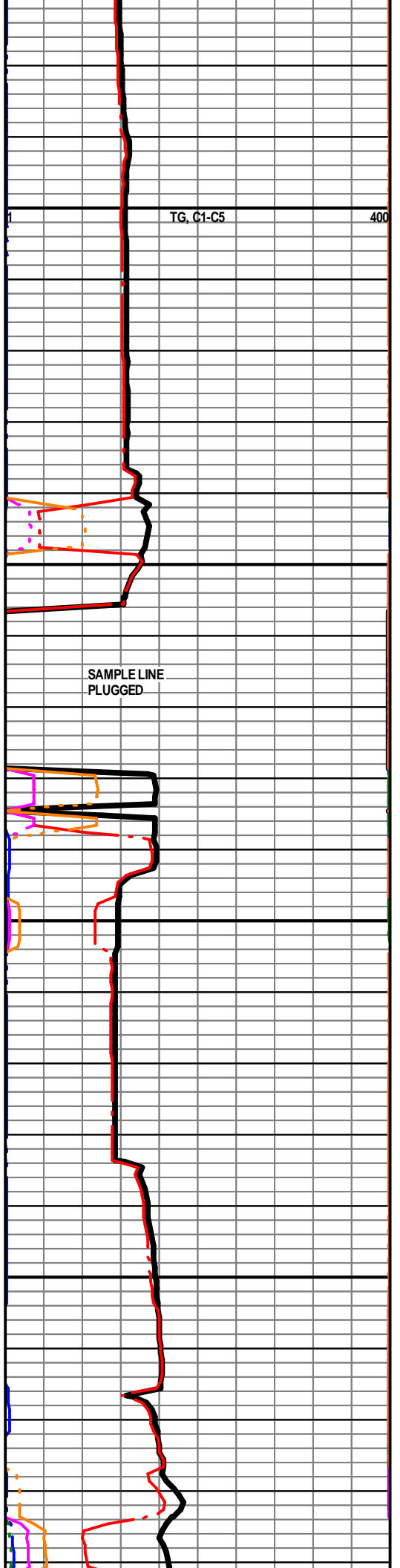
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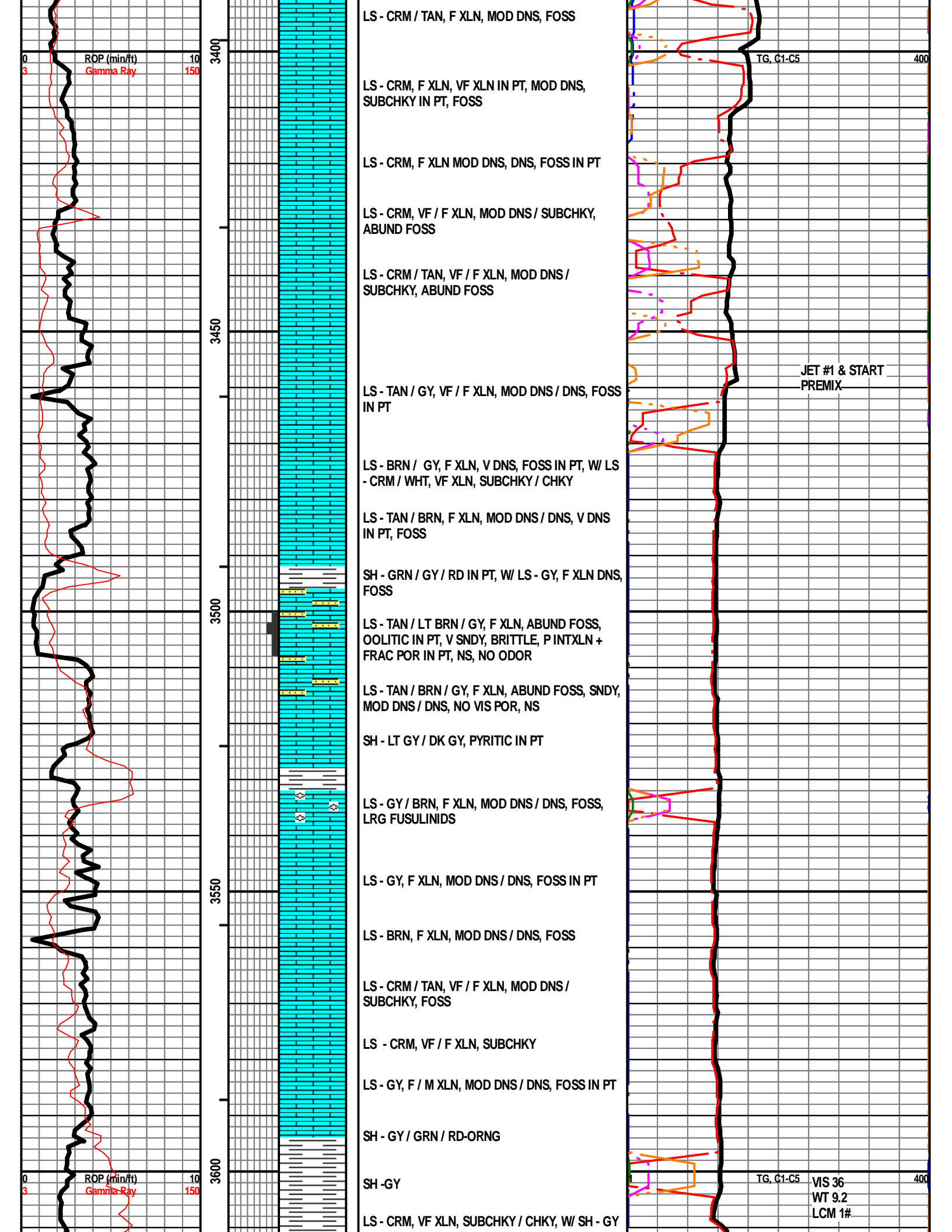
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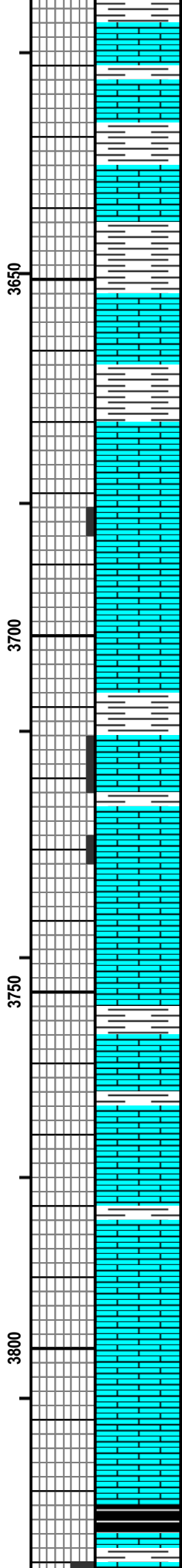
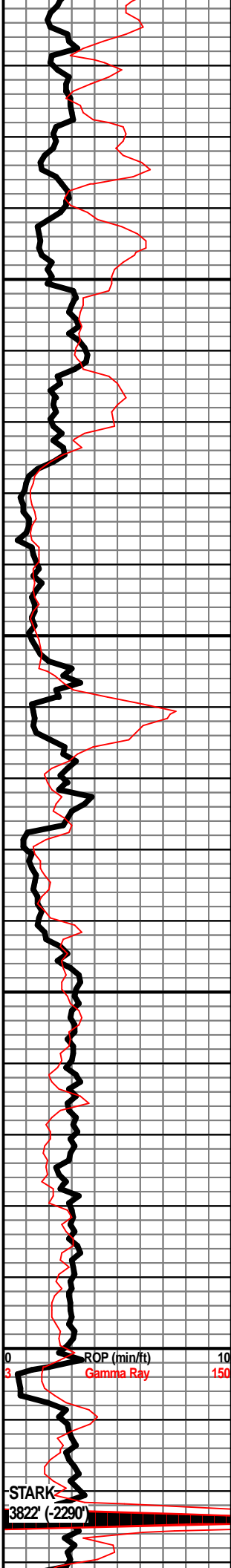
SS - CLR / GY, F GR, SUB RND, W SRTED, F / G INTGR POR, NS, PYRITIC IN PT

SS - CLR / GY, VF / F GR, SUB RND, W SRTED, P / F INTGR POR, NS

LS - TAN / BRN, F XLN, MOD DNS / DNS, FOSS IN PT







LS - GY / TAN, M XLN, DNS, FOSS, W/ SH - GY

SH - LT GY / DK GY, W/ LS - CRM, VF / F XLN, SUBCHKY, FOSS

LS - GY, F XLN, MOD DNS / DNS, W/ SH - GY / GRN IN PT

LS - DK GY / BRN, F XLN, DNS, FOSS IN PT

SH - LT GRN / GY, W/ LS - TAN / GY, VF XLN, MOD DNS / SUBCHKY

SH - RD / GRN, W/ LS - GY, F / M XLN, V DNS, FOSS IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, FOSS, STYLOLITIZED

SH - GRN / RD / GY, W/ LS - GY, F XLN, MOD DNS / DNS, FOSS IN PT

LS - CRM, VF / F XLN, MOD DNS, P INTXLN POR IN PT, NSFO, SLT OIL SHEEN WHEN BROKEN, NO ODOR, SLT YEL-GRN FLUOR IN PT

LS - CRM, VF / F XLN, MOD DNS, P INTXLN POR IN PT, NSFO, SLT OIL SHEEN WHEN BROKEN, SHO OF GAS BUBB, SLT ODOR, F YEL-GRN FLUOR

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, NS, NO ODOR

LS - CRM, VF XLN, MOD DNS / SUBCHKY

SH - RD / GRN / GY

LS - LT BRN, VF / F XLN, MOD DNS, W/ SH - GY / GRN / RD

LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, W/ SH - RD / GRN / GY

LS - TAN / LT BRN, VF / F XLN, MOD DNS

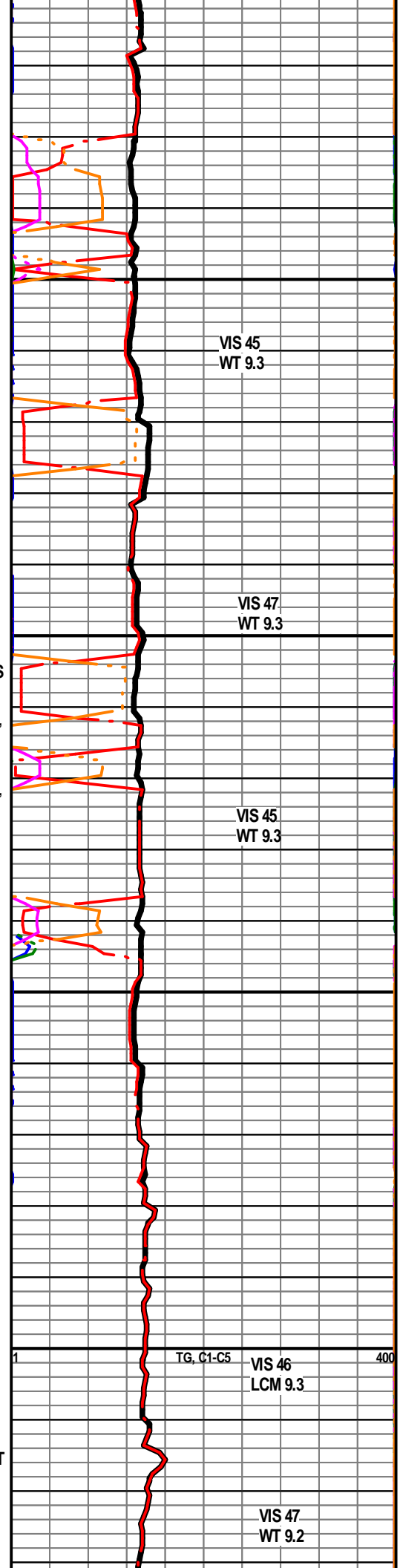
LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, STYLOLITIZED IN PT

LS - CRM, VF / F XLN, MOD DNS, SUBCHKY IN PT

SH - BLK, CARB, PYRITIC IN PT

SH - LT GY



VIS 45
WT 9.3

VIS 47
WT 9.3

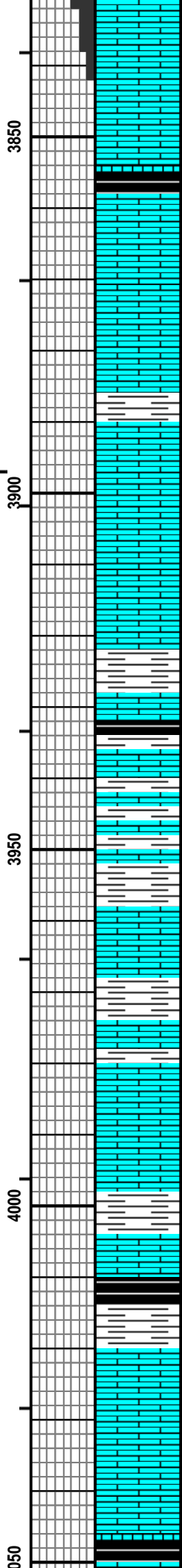
VIS 45
WT 9.3

TG, C1-C5 VIS 46
LCM 9.3

VIS 47
WT 9.2

ROP (min/ft) 10
Gamma Ray 150

STARK
3822' (-2290')



LS - CRM / TAN, VF / F XLN, MOD DNS / SUBCHKY, P / F INTXLN POR IN PT, NS, NO ODOR, G YEL-GRN FLUOR IN PT

LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, NO VIS POR, NS, NO ODOR

SH - BLK, CARB, W/LS - CRM / TAN, VF / F XLN, MOD DNS / DNS, SUBCHKY IN PT, STYLOLITIZED IN PT

LS - CRM / TAN / LT GY IN PT, F XLN, MOD DNS / DNS, FOSS IN PT, NS, NO ODOR

LS - TAN / GY, F XLN, F / G INTXLN POR, NS, NO ODOR, F MINERAL FLUOR, FOSS, OOLITIC IN PT

LS - GY, F / M XLN, MOD DNS / DNS

SH - GY, BRN IN PT, W/ LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS IN PT

LS - CRM / TAN, VF / F XLN, MOD DNS, FOSS IN PT, W/ SH - GRN / GY, RD IN PT

SH - GY / GRN, W/ LS - CRM, VF / F XLN, MOD DNS / SUBCHKY, FOSS

LS - TAN / GY, F XLN, MOD DNS / DNS, SUBCHKY IN PT, W/ SH - GY

SH - BLK, CARB, W/ SH - GY / GRN

LS - TAN, F / M XLN, DNS, W/ SH - GRN / GY / MAR

SH - GRN / GY, W/ LS - GY, F / M XLN, DNS

LS - TAN / GY, F XLN, MOD DNS / DNS, W/ SH - GRN / GY

LS - LT BRN / TAN / GY, F / M XLN, MOD DNS / DNS, FOSS, W/ SH - GRN / GY / RD

LS - CRM / TAN, VF / F XLN, SUBCHKY / CHKY IN PT, W/ SH - PRED GRN / GY IN PT

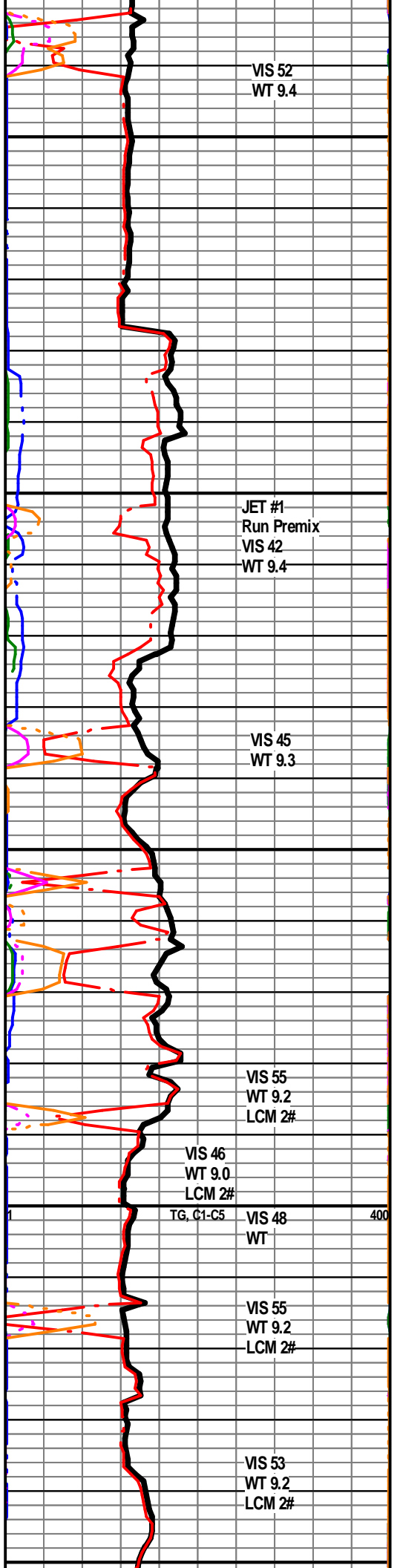
LS - CRM / TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT, W/ SH - GRN

SH - BLK, CARB, W/ SH - GY, W/ LS - DK GY, M XLN, DNS

LS - CRM / TAN, F / M XLN, V DNS, FOSS IN PT

LS - CRM / TAN, F XLN, MOD DNS / DNS, OOL & ABUND FOSS IN PT, CEM W/ CALCTE CEM

SH - DK GY / BLK, PYRITIC IN PT, W/ LS - GY, F XLN, DNS



CHEROKEE
4062' (-2530')

MISSISSIPPI
4158' (-2626')

CFS @ 4185'

R₀₋₂ (min/ft)
Gamma Ray

4100

4150

4200

4250

LS - BRN / GY, F / M XLN, DNS, FOSS IN PT, W SH - GY

SH - BLK, SLI CARB, W SH - GRN / GY, W / LS - CRM, F XLN, DNS, ABUND FOSS

LS - CRM, F XLN, DNS, ABUND FOSS, CALCITE CEM IN PT, W SH - GRN / GY

LS - PRED GY / TAN IN PT, F / M XLN, V DNS, FOSS IN PT

LS - CRM, VF XLN, MOD DNS / SUBCHKY, W / SH - GRN - GY

SH - BLK, CARB, W SH - TURQ / GRN / PURP, LS - GY, VF / F XLN, MOD DNS / DNS

SH - BLK, CARB, W / LS - WHT / CRM, VF XLN, SUBCHKY / CHKY, W / SH - GRN / GY / PURP

SH - GRN / GY / PURP / MAR / YEL

SH - BLK, CARB, W / SH - GRN / GY / PURP / MAR / YEL

SH - YEL & GY, V SLTY & SNDY

CHT - WHT / CRM, SLI DOLOMITIC, 90% FRSH, FEW PIECES WITH P / F WEATH POR, SLI OIL SHEEN IN ONE PIECE, NSFO, NO ODOR, SLI EDGE STN IN PT

LS - CRM / TAN, F XLN, MOD DNS / SUBCHKY, CHKY IN PT, FOSS, NO VIS POR, NO ODOR, F MINERAL FLUOR, W / CHT IN PT - CRM / TAN, FRSH

LS - CRM, F XLN, MOD DNS / DNS, FOSS, SLI DOLOMITIC IN PT, NO VIS POR, NS, NO ODOR, G MINERAL FLUOR, W / CHT IN PT - CRM, FRSH

LS - WHT / CRM, F XLN, MOD ,FOSS, NS, NO ODOR, W / CHT IN PT - TAN / GY, FRSH

LS - WHT / CRM, VF / F XLN, MOD DNS / SUBCHKY, CHKY IN PT, FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, NO VIS POR, SLI EDG STN, NO ODOR, F MINERAL FLUOR

LS - CRM / WHT, VF / F XLN, DOLOMITIC IN PT, 50% SUBCHKY / CHKY, P / F INTXLN POR, GSFO WHEN BROKEN, 50% F / G INTXLN POR, FSFO, SUCROSIC IN PT, SHOW OF GAS THROUGHOUT

LS - CRM, F XLN, MOD DNS / DNS, SUBCHKY IN PT, NO VIS POR, NS, NO ODOR

VIS 50
WT 9.1
LCM 2#

JET #2 ADD PREMIX

VIS 51
WT 9.2
LCM 2#

VIS 63
WT 9.1
LCM 3#

VIS 62
WT 9.1
LCM 3#

VIS 61
WT 9.1
LCM 3#

VIS 57
WT 9.1
LCM 3#

VIS 51
WT 9.1
LCM 3#

VIS 57
WT 9.1
LCM 4#

LOST CIRCULATION, LOST EST 100 BBL

DST #1
4225' - 4272'
MISSISSIPPIAN
30 - 60 - 30 - 60

IF: BOB IN 2 MIN
ISI: NO BLO BACK
FF: WK to GD BLOW BLD
1" TO 7.5"
FSI: NO BLO BACK

VIS 45
WT 8.9
LCM 3#

REC: 15' mud w/ show of oil
480' GIP

1 150 C1-C5 400

CFS @ 4272'

SIP: 221-158#
FP: 27-25#, 23-27#
HP: 1986-1955#

POOR SAMPLE
QUALITY

LS - CRM / TAN, VF / F XLN, MOD DNS /
SUBHCHKY IN PT, NS

VIS 38
WT 8.7
LCM 3#

LS - CRM / TAN, LT BRN IN PT, VF / F XLN, PRED
SUBCHKY, MOD DNS IN PT, FOSS IN PT

4300

LS - CRM / TAN / GY IN PT, VF / F XLN, MOD DNS
/ SUBCHKY, FOSS IN PT

VIS 38
WT 8.7
LCM 3#

SH - GY

SH - GY

LS - CRM / GY, VF / F XLN, PRED MOD DNS,
ABUND FOSS, SUBCHKY / CHKY IN PT

VIS 38
WT 8.7
LCM 6#

LS - CRM / TAN, F XLN, MOD DNS, BRITTLE,
ABUND FOSS, W/ CHT IN PT, WHT, FRSH

VIS 37
WT 8.7
LCM 6#

ADD PREMIX

4350

LS - CRM / RDISH-BRN, F XLN, SHLY, W/
RDISH-BRN SH, BRITTLE IN PT, FOSS, W/ CHT -
WHT, FRSH

VIS 35
WT 8.9
LCM 8#

LS - CRM, F XLN, MOD DNS, W/ CHT - WHT, FRSH

VIS 40
WT 8.8
LCM 7#

LS - TAN / GY, F XLN, MOD DNS, SHLY IN PT -
GRN / GY SH

ADD PREMIX

SH - GRN / GY

4400

LS - TAN / GY, F XLN, MOD DNS, SHLY IN PT -
GRN / GY, W/ CHT - WHT, FRSH

0
3
POP (min/ft)
Gamma Ray
10
150

1
TG, C1-C5
400

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS IN
PT, SHLY IN PT - GRN

VIS 40
WT 8.9
LCM 8#

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS, W/
CHT IN PT - WHT, FRSH

ADD PREMIX

SH - GY / GRN

4450

LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS IN
PT

VIS 45
WT 8.9
LCM 7#

SAMPLE QUALITY VERY POOR

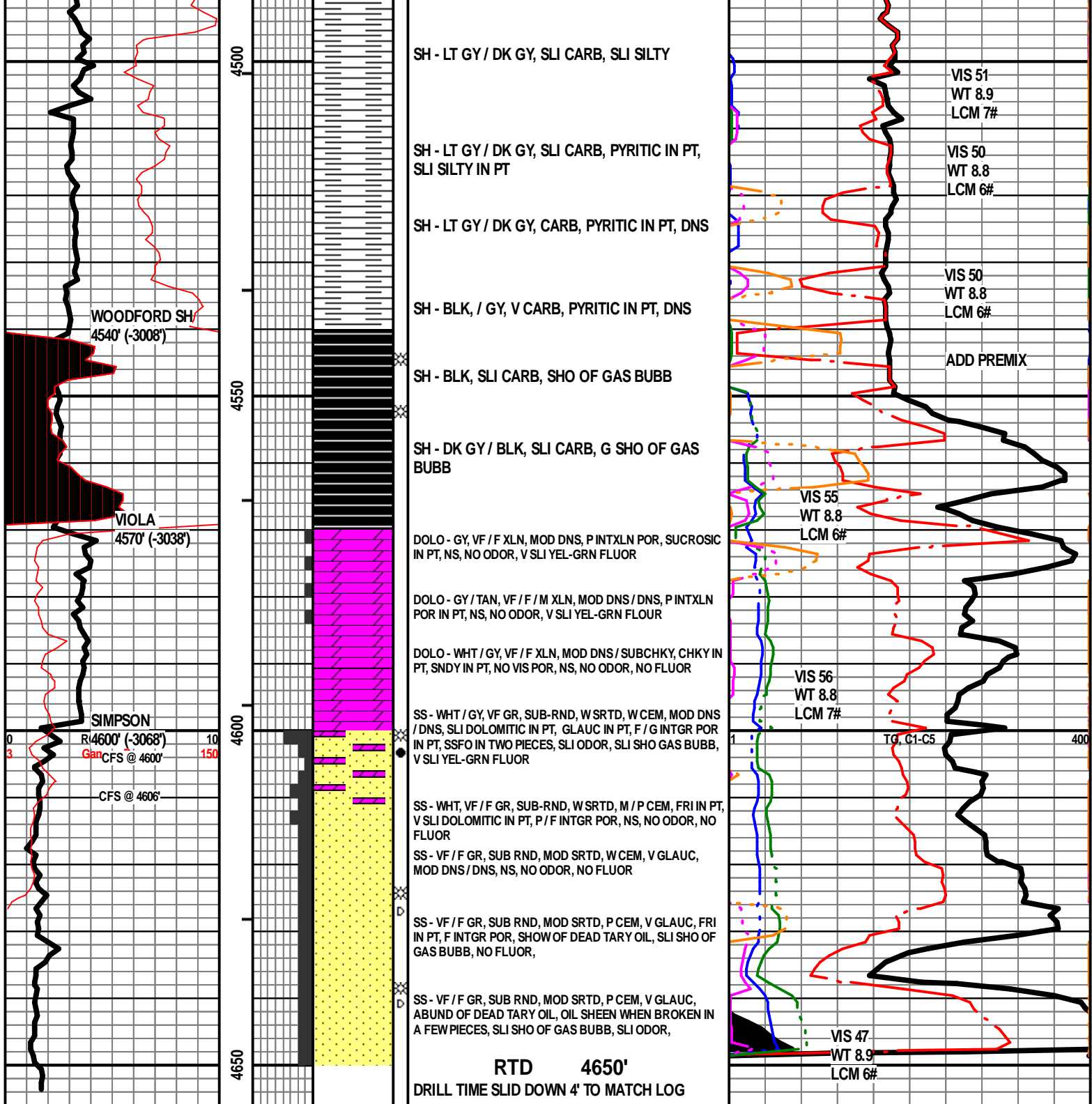
ADD PREMIX

KINDERHOOK SH
4471' (-2939')

SH - LT GY / DK GY, PYRITIC IN PT

VIS 43
WT 8.9
LCM 8#

SH - LT GY / DK GY





PAGE 1 of 1	CUST NO 1002843	YARD # 1718	INVOICE DATE 12/01/2017
INVOICE NUMBER 92581354			

Pratt (620) 672-1201
 B MTM PETROLEUM INC
 I P O BOX 391
 L KINGMAN
 L KS US 67068
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Leslie #1-13
 O LOCATION
 B COUNTY Kingman
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB # 41072865	EQUIPMENT # 86779	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 12/31/2017
-------------------	----------------------	--------------------	------------------------	------------------------

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/30/2017 to 11/30/2017</i>				
0041072865				
171816143A Cement-New Well Casing/Pi 11/30/2017 Cement-Plug to Abandon				
60/40 POZ	180.00	EA	6.60	1,188.00 T
Celloflake	45.00	EA	2.03	91.57 T
Cement Gel	310.00	EA	0.14	42.62 T
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	2.47	111.37
Heavy Equipment Mileage	90.00	MI	4.13	371.25
349 Prop & Bulk Del Chr per ton mil	1.00	EA	479.55	479.55
Depth Charge; 1001'-2000'	1.00	EA	825.00	825.00
Blending & Mixing Service Charge	180.00	BAG	0.77	138.60
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,344.21
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	105.78
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,449.99
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TTMH 20
FIELD SERVICE TICKET
1718 16143 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>11/30/17</u> DISTRICT _____		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>MTM Petroleum Inc</u>		LEASE <u>Leslie</u>		WELL NO. <u>1-13</u>					
ADDRESS _____		COUNTY <u>Kingman</u> STATE <u>KS</u>							
CITY _____ STATE _____		SERVICE CREW <u>Scott, Murrell, Dillon</u>							
AUTHORIZED BY <u>Nick Miller</u>		JOB TYPE: <u>Plug to Abandon 242</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<u>81079</u>	<u>1</u>								
<u>19860</u>	<u>15</u>								
						ARRIVED AT JOB	<u>11/30/17</u>	<u>AM</u>	<u>5:30</u>
						START OPERATION	<u>11/30/17</u>	<u>AM</u>	<u>7:00</u>
						FINISH OPERATION	<u>11/30/17</u>	<u>AM</u>	<u>9:30</u>
						RELEASED	<u>11/30/17</u>	<u>AM</u>	<u>10:00</u>
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<u>CP103</u>	<u>60/40 POZ</u>	<u>SK</u>	<u>180</u>		<u>2160</u> ⁰⁰
<u>CC102</u>	<u>Cellulose</u>	<u>lb</u>	<u>45</u>		<u>166</u> ⁵⁰
<u>CC710</u>	<u>Cement Gel</u>	<u>lb</u>	<u>310</u>		<u>77</u> ⁵⁰
<u>E100</u>	<u>Unit Mileage Pick up</u>	<u>MI</u>	<u>45</u>		<u>207</u> ⁵⁰
<u>E101</u>	<u>Heavy Equipment Mileage</u>	<u>MI</u>	<u>90</u>		<u>675</u> ⁰⁰
<u>E115</u>	<u>Plug + Bulk Delivery</u>	<u>TM</u>	<u>349</u>		<u>871</u> ⁸⁸
<u>CF202</u>	<u>Depth Charge 1001-2000'</u>	<u>Yr</u>	<u>1</u>		<u>1500</u> ⁰⁰
<u>CF240</u>	<u>Bleedring + Mixing Charge</u>	<u>SK</u>	<u>180</u>		<u>752</u> ⁰⁰
<u>5003</u>	<u>Service Supervisor first 5 hrs</u>	<u>Fa</u>	<u>1</u>		<u>175</u> ⁰⁰
					SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	<u>3344</u> ²¹

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer <i>MTM Petroleum, Inc</i>		Lease No.		Date <i>11/30/17</i>	
Lease <i>1-5112</i>		Well # <i>1-13</i>			
Field Order # <i>16145 A</i>	Station <i>Pratt</i>	Casing <i>4 1/2 D.I.G.</i>	Depth <i>1150</i>	County <i>Kingman</i>	State <i>KS</i>
Type Job <i>plug to Abandon</i>			Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>4 1/2 D.I.G.</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth <i>1150</i>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <i>16.35</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>310</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>4 1/2 D.I.G.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>T.M.</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Scott Graves</i>
--	--	--------------------------------

Service Units	<i>75450</i>	<i>75987</i>	<i>36779</i>	<i>19960</i>	<i>19860</i>				
Driver Names	<i>Scott</i>	<i>McGowan</i>	<i>-</i>	<i>Dilko</i>	<i>-</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:30</i>					<i>No Location safety Meeting Pump</i>
<i>7:12</i>	<i>240</i>			<i>5</i>	<i>Pump 1170 spacer 1150'</i>
<i>7:15</i>	<i>240</i>		<i>10</i>	<i>5</i>	<i>Shut Cement 35SKS 60/40 13.8#</i>
<i>7:17</i>	<i>120</i>		<i>9</i>	<i>5</i>	<i>Shut Displacement</i>
<i>7:20</i>	<i>0</i>		<i>15</i>	<i>0</i>	<i>Shut down</i>
					<i>750'</i>
<i>7:45</i>	<i>210</i>			<i>5</i>	<i>Pump 1470 spacer</i>
<i>7:46</i>	<i>200</i>		<i>7</i>	<i>5</i>	<i>Shut Cement 35SKS 60/40 13.8#</i>
<i>7:48</i>	<i>100</i>		<i>9</i>	<i>5</i>	<i>Shut Displacement</i>
<i>7:50</i>	<i>0</i>		<i>9.25</i>	<i>0</i>	<i>Shut down</i>
					<i>275'</i>
<i>8:11</i>	<i>220</i>			<i>5</i>	<i>Pump 1170 spacer</i>
<i>8:12</i>	<i>200</i>		<i>5</i>	<i>5</i>	<i>Shut Cement 35SKS 60/40 13.8#</i>
<i>8:14</i>	<i>140</i>		<i>9</i>	<i>5</i>	<i>Shut Displacement</i>
<i>8:15</i>	<i>0</i>		<i>2.25</i>	<i>0</i>	<i>Shut down</i>
					<i>50'</i>
<i>8:23</i>	<i>100</i>			<i>3.5</i>	<i>Shut Cement 25SKS 60/40 13.8#</i>
<i>8:25</i>	<i>0</i>		<i>6.7</i>	<i>0</i>	<i>Circulated shut down</i>
<i>8:55</i>	<i>0</i>		<i>7.6</i>	<i>3</i>	<i>Plug Rod hole 30SKS 60/40</i>
<i>9:00</i>	<i>0</i>		<i>5</i>	<i>3</i>	<i>Plug mouse hole 70SKS 60/40</i>
					<i>Job Complete</i>



PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1002843	1718	11/29/2017
INVOICE NUMBER			
92578767			

Pratt (620) 672-1201
 B MTM PETROLEUM INC
 I P O BOX 391
 L KINGMAN
 L KS US 67068
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Leslie #1-13
 O LOCATION
 B COUNTY Kingman
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41072291	19843		Net - 30 days	12/29/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 11/21/2017 to 11/21/2017</i>				
0041072291				
171816203A Cement-New Well Casing/Pi 11/21/2017 Cement-8 5/8" Surface Casing				
60/40 POZ	165.00	EA	6.60	1,089.00 T
Celloflake	41.00	EA	2.03	83.43 T
Calcium Chloride	426.00	EA	0.58	246.01 T
"Unit Mileage Chg (PU, cars one way)"	45.00	MI	2.47	111.37
Heavy Equipment Mileage	90.00	MI	4.13	371.25
320 Prop & Bulk Del. Chr, per ton mil	1.00	EA	439.33	439.33
Depth Charge; 0-500'	1.00	EA	550.00	550.00
Blending & Mixing Service Charge	165.00	BAG	0.77	127.05
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.25	96.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	3,113.69
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	113.48
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	3,227.17
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TTMH
45

FIELD SERVICE TICKET
1718 16203 A

DATE _____ TICKET NO. _____

DATE OF JOB 11-21-17 DISTRICT Pratt				NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:			
CUSTOMER MTRM Petroleum INC				LEASE L-511		WELL NO. 1-0	
ADDRESS				COUNTY Kingman		STATE KI	
CITY STATE				SERVICE CREW MATTAL McGraw OSBOR			
AUTHORIZED BY				JOB TYPE: 2-42 8 1/2 SURFACE			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE 11-20-17 AM/PM 6:00
19847	.5					ARRIVED AT JOB	AM/PM 7:00
21010	.5					START OPERATION	11-21-17 AM/PM 6:30
						FINISH OPERATION	AM/PM 6:45
						RELEASED	AM/PM 7:30
						MILES FROM STATION TO WELL	45

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Jim Orrell
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 P02	SA	165		1,980.00
CC102	CELLULOSE	LB	41		151.70
CC109	CALCIUM CHLORIDE	LB	426		447.30
E100	P.U. MIBI	MI	45		202.50
E101	HEAVY EQ. MILLS	MI	90		675.00
E113	PROP + BULK D-1	TN	320		798.75
C-200	DEPTH CHARGE 0-500'	HR	1		1,000.00
C-240	blend + mix	SA	165		231.00
S003	SUPERVISOR	EA	1		175.00
SUB TOTAL					5601.25

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		3,113.69

SERVICE REPRESENTATIVE Mike Mattal THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Jim Orrell
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____

Customer MTM Petroleum	Lease No.	Date 11-21-17
Lease Leslie	Well # 1-13	
Field Order # 16203	Station Pratt	Casing 8 5/8
Type Job Z-42	8 5/8 SURFACE	Depth 210.47
	Formation	County Kingman
		State KS
		Legal Description R-30S-08W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8	Tubing Size	Shots/Ft		Acid 165 SKI 60/40	RATE	PRESS	ISIP	
Depth 210.47	Depth	From	To	Pre Pad 390 cc	Max		5 Min.	
Volume 13.4	Volume	From	To	Pad 290 gal	Min		10 Min.	
Max Press 300	Max Press	From	To	Frac .25 PPS C	Avg		15 Min.	
Well Connection 3 1/2	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 190	Packer Depth	From	To	Flush 12	Gas Volume		Total Load	

Customer Representative Nick Miller	Station Manager Wasmann	Treater MATTAL
--	----------------------------	-------------------

Service Units 83353	84981	19843	19887	21010			
Driver Names MATTAL	McGowan		OSBORN				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:00					ON LOCATION / SENTRY MONITOR
5:25					RUN 8 5/8 Casing
6:05					Casing on bottom
6:15					HOW TO casing / 15' Casing circ w. rig
6:30	200		3	4	PUMP 3 bbl water
6:35	250		36	4.5	Mix 165 SKI 60/40 Puz
6:40	200		-	3	START DIS!
6:45	200		12		plugdown / shut in well

JOB complete
THANK YOU!
Mike Mattal
Mike + Riley