Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1111016

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5135
Name: Farmer, John O., Inc.
Address 1: 370 W WICHITA AVE
Address 2: PO BOX 352
City: RUSSELL State: KS Zip: 67665 + 2635
Contact Person: Marge Schulte
Phone: (785) 483-3144
CONTRACTOR: License # 32854
Name: Gulick Drilling Co., Inc.
Wellsite Geologist: Austin Klaus
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☑ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ 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 ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

10/09/2012	10/14/2012	10/14/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-197-20297-00-00
Spot Description: NW SW SW NE
NW SW SW NE Sec. 6 Twp. 15 S. R. 12 ☑ East ☐ West
2260 Feet from ☑ North / ☐ South Line of Section
2360 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Wabaunsee
Lease Name: Waugh C Well #: 1
Field Name: (wildcat)
Producing Formation: None
Elevation: Ground: 1269 Kelly Bushing: 1277
Total Vertical Depth: 3099 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 304 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: 12000 ppm Fluid volume: 160 bbls
Dewatering method used: Evaporated
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: 01/29/2013
☑ **Confidential Release Date:** 01/29/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 01/29/2013

1111016

Operator Name: Farmer, John O., Inc. Lease Name: Waugh C Well #: 1

Sec. 6 Twp. 15 S. R. 12 ☑ East ☐ West County: Wabaunsee

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Micro Resistivity Log
Compensated Density Neutron Log
Dual Induction Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	304	Common	175	3% C.C., 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	Waugh C 1
Doc ID	1111016

Tops

Name	Top	Datum
Mississippian	2293'	(-1016)
Kinderhook	2626'	(-1349)
Hunton	2775'	(-1498)
Maquoketa	2832'	(-1555)
Viola	2905'	(-1628)
Simpson Dolomite	3002'	(-1725)
Simpson Sand	3021'	(-1744)
Arbuckle	3065'	(-1788)
L.T.D.	3099'	(-1822)

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 29, 2013

Marge Schulte
Farmer, John O., Inc.
370 W WICHITA AVE
PO BOX 352
RUSSELL, KS 67665-2635

Re: ACO1
API 15-197-20297-00-00
Waugh C 1
NE/4 Sec.06-15S-12E
Wabaunsee County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Marge Schulte

DRILL STEM TEST REPORT

John O.Farmer Inc.

370 W.Wichita Ave.
P.O.Box 352
Russell Ks.67665
ATTN: Austin Klaus

6-15s-12e Wabaunsee Ks

Waugh C#1

Job Ticket: 49617 **DST#: 1**

Test Start: 2012.10.13 @ 15:01:38

GENERAL INFORMATION:

Formation: **Simpson Dolo.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:24:53
Time Test Ended: 22:07:08

Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 2993.00 ft (KB) To 3010.00 ft (KB) (TVD)
Total Depth: 3010.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

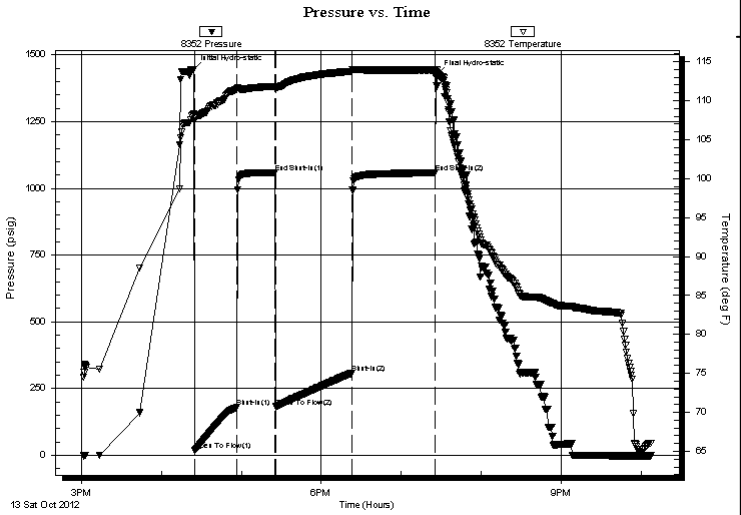
Reference Elevations: 1277.00 ft (KB)
1269.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8352 **Inside**

Press@RunDepth: 308.47 psig @ 2994.00 ft (KB)
Start Date: 2012.10.13 End Date: 2012.10.13
Start Time: 15:01:43 End Time: 22:07:07

Capacity: 8000.00 psig
Last Calib.: 2012.10.13
Time On Btm: 2012.10.13 @ 16:24:08
Time Off Btm: 2012.10.13 @ 19:26:53

TEST COMMENT: IF:Fair blow . Slow increase to 11".
ISI:No blow .
FF:Fair to strong blow . B.O.B. in 38 mins.
FSI:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1443.67	108.27	Initial Hydro-static
1	17.80	107.45	Open To Flow (1)
33	180.63	111.47	Shut-In(1)
61	1059.53	111.84	End Shut-In(1)
62	182.40	111.49	Open To Flow (2)
119	308.47	113.77	Shut-In(2)
181	1057.81	113.91	End Shut-In(2)
183	1426.00	113.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
545.00	MW 5%m 95%w /Rw .23ohms@69deg	4.31
80.00	MW 25%m 75%w	1.12

Gas Rates

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

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

John O.Farmer Inc.

370 W.Wichita Ave.
P.O.Box 352
Russell Ks.67665
ATTN: Austin Klaus

6-15s-12e Wabaunsee Ks

Waugh C#1

Job Ticket: 49617 **DST#: 1**

Test Start: 2012.10.13 @ 15:01:38

GENERAL INFORMATION:

Formation: **Simpson Dolo.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:24:53
Time Test Ended: 22:07:08

Test Type: Conventional Bottom Hole (Initial)
Tester: Gary Pevoteaux
Unit No: 56

Interval: 2993.00 ft (KB) To 3010.00 ft (KB) (TVD)
Total Depth: 3010.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

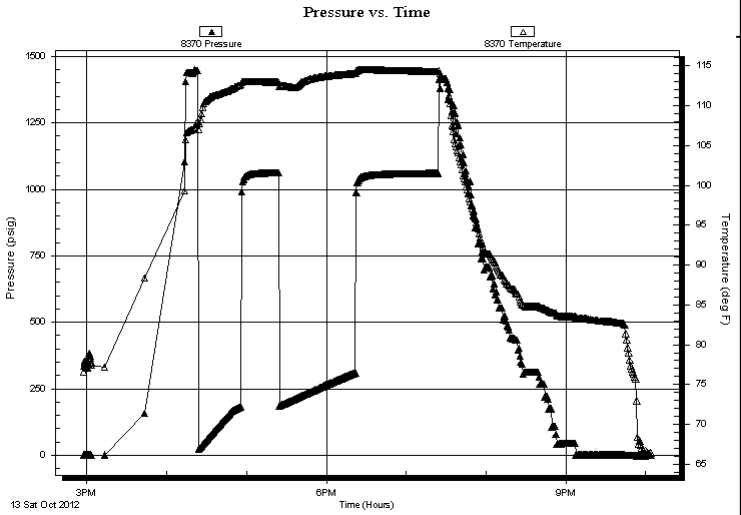
Reference Elevations: 1277.00 ft (KB)
1269.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8370

Press@RunDepth: psig @ ft (KB)
Start Date: 2012.10.13 End Date: 2012.10.13
Start Time: 14:57:27 End Time: 22:03:36

Capacity: 8000.00 psig
Last Calib.: 2012.10.13
Time On Btm:
Time Off Btm:

TEST COMMENT: IF:Fair blow . Slow increase to 11".
ISI:No blow .
FF:Fair to strong blow . B.O.B. in 38 mins.
FSI:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
545.00	MW 5%m 95%w /Rw .23ohms@69deg	4.31
80.00	MW 25%m 75%w	1.12

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

John O.Farmer Inc.

370 W.Wichita Ave.
P.O.Box 352
Russell Ks.67665
ATTN: Austin Klaus

6-15s-12e Wabaunsee Ks

Waugh C#1

Job Ticket: 49617 **DST#: 1**

Test Start: 2012.10.13 @ 15:01:38

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:	29000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
545.00	MW 5%m 95%w /Rw .23ohms@69deg	4.311
80.00	MW 25%m 75%w	1.122

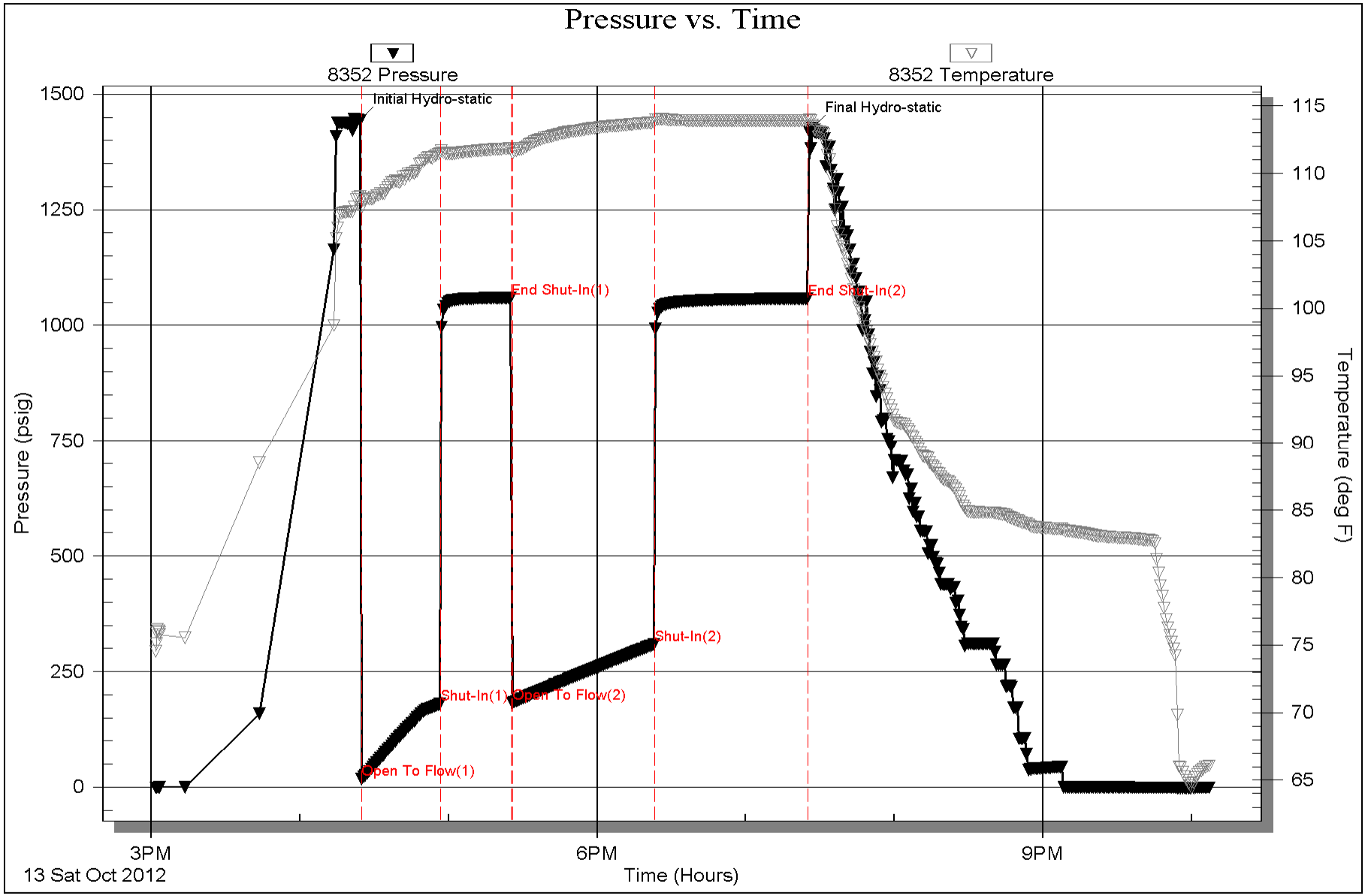
Total Length: 625.00 ft Total Volume: 5.433 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: none

Laboratory Name: Laboratory Location:

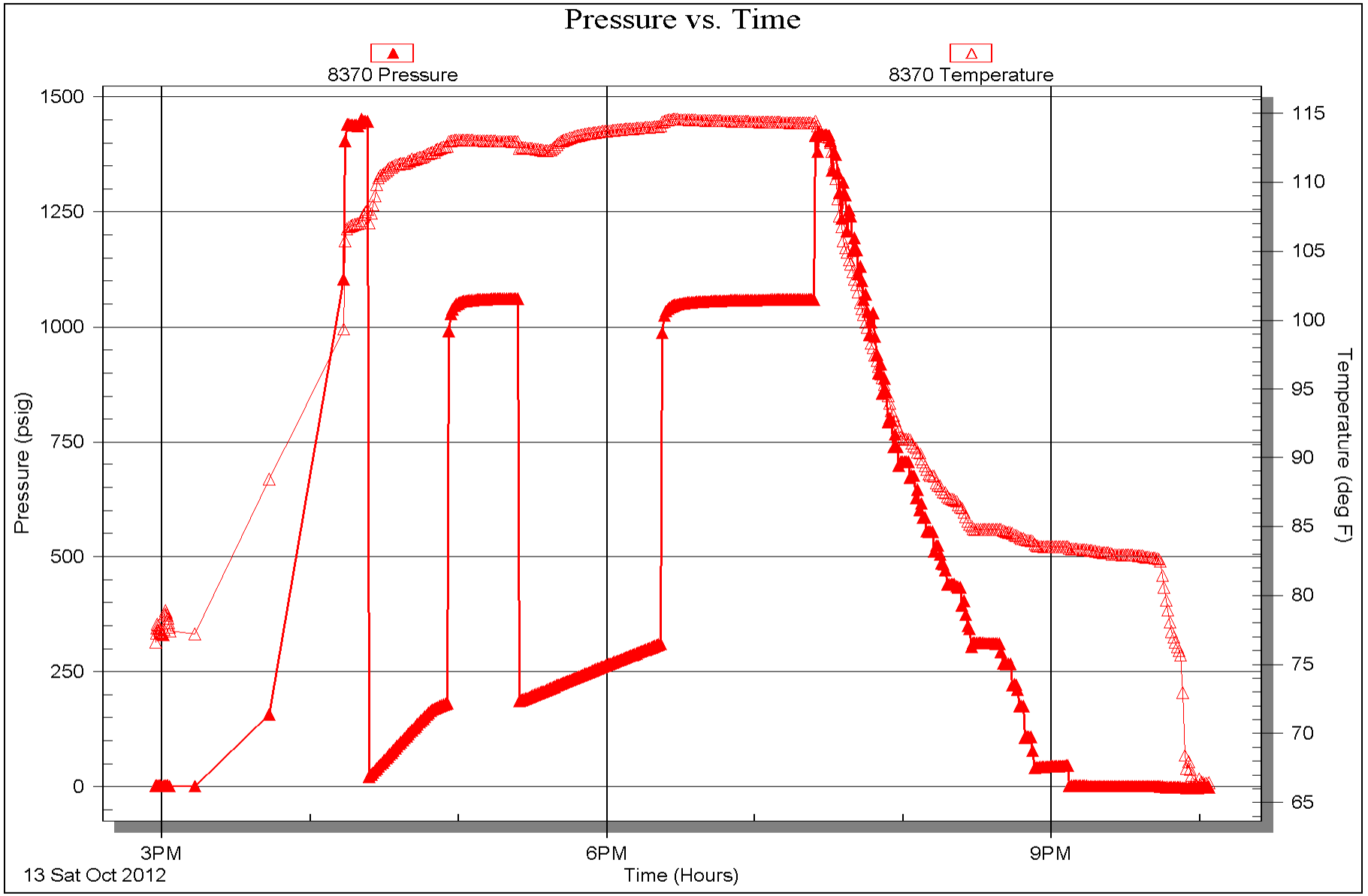
Recovery Comments:

Serial #: 8352 **Inside** John O.Farmer Inc. Waugh C#1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 49617 Printed: 2012.10.14 @ 17:24:40

Serial #: 8370 John O.Farmer Inc. Waugh C#1 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 49617 Printed: 2012.10.14 @ 17:24:40

CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 35551
LOCATION Eureka
FOREMAN Steve Mead

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API 15197-20297

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-9-12	4027	Waugh #1	6	15S	12E	Wabaunsee

CUSTOMER: John O. Farmer
MAILING ADDRESS: P.O. Box 352
CITY: Russell | STATE: Ks | ZIP CODE: 67665

TRUCK #	DRIVER	TRUCK #	DRIVER
485	Alan M		
515	Calin		

JOB TYPE Surface O | HOLE SIZE 12¼ | HOLE DEPTH 317 | CASING SIZE & WEIGHT 8⅝ 23#
CASING DEPTH 304' | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.5# | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING 25'
DISPLACEMENT 18 ¾ bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty Meeting. Rig up to 8⅝ Casing. Break Circulation w/ Fresh water Total 10 bbls water. Mix 175 sks Class A Cement w/ 3% Cacl2, 2% Gel & ¼# Flo-Cele per/sk. At 14.5#. Displace with 18¾ bbls Fresh water Shut well in. Good Cement Returns To surface 10 bbl to pit
Job Complete Rig down

Thank You

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	825.00	825.00
5406	70	MILEAGE	4.00	280.00
11045	175#	Class A Cement	14.95	2616.25
1102	494#	Cacl2 3%	.74	365.56
1118B	329#	Gel 2%	.21	69.09
1107	50#	Flo-Cele ¼# per/sk	2.35	117.50
5407A	8.23	Ton mileage Bulk Truck	1.34	771.97
			Sub Total	5045.37
		7.8% 503518	SALES TAX	247.14
			ESTIMATED TOTAL	5292.51

Ravin 3737

AUTHORIZTION Mc Dan TITLE TP DATE 10-9-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 35604
LOCATION Eureka
FOREMAN Kevin McCoy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-14-12	4027	Waugh # 1	6	15 S	12E	Wabaunsee

CUSTOMER: John O. Farmer, Inc.
MAILING ADDRESS: P.O. Box 352
CITY: Russell | STATE: Ks | ZIP CODE: 67665

Gulick Drlg.

TRUCK #	DRIVER	TRUCK #	DRIVER
520	John S.		
611	Joey K.		

JOB TYPE P.T.A. 0 | HOLE SIZE 7 7/8 | HOLE DEPTH 3099' KB | CASING SIZE & WEIGHT
CASING DEPTH | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety Meeting: Rig up to 4½ Drill pipe, Spot Cement Plugs As following.

35 sks @ 3060' Top of Arbuckle
15 sks @ 1250' KC
150 sks 350' to Surface
20 sks R.H.

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405 N	1	PUMP CHARGE	1030.00	1030.00
5406	70	MILEAGE	4.00	280.00
1131	220 sks	60/40 Pozmix Cement	12.55	2761.00
1118 B	750 #	Gel 4%	.21 #	157.50
5407 A	9.46 Tons	70 Miles Bulk Delv.	1.34	887.35
			Sub Total	5115.85
		THANK YOU	SALES TAX 7.8%	227.65
			ESTIMATED TOTAL	5343.50

Ravin 3737

AUTHORIZTION MW | TITLE Tool pusher | DATE 10-14-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

AUSTIN B. KLAUS

Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name:	**Waugh C #1**		
Location:	**Wabaunsee County**		
License Number:	**API #15-197-20297-0000**	**Region:**	**Kansas**
Spud Date:	**10/9/2012**	**Drilling Completed:**	**10/14/2012**
Surface Coordinates:	**2,260' FNL & 2,360' FEL** **Section 6 - Township 15 South - Range 12 East**		
Bottom Hole Coordinates:	**Vertical well with minimal deviation, same as above**		
Ground Elevation (ft):	**1,269'**	**K.B. Elevation (ft):**	**1,277'**
Logged Interval (ft):	**2,200'** **To: 3,009'**	**Total Depth (ft):**	**RTD,LTD: 3,099'**
Formation:	**Mississippian-Arbuckle**		
Type of Drilling Fluid:	**Chemical (Fud-Mud)**		

OPERATOR

Company: John O. Farmer, Inc.
Address: P.O. Box 352
Russell, KS 67665-0352

COMMENTS

The Waugh C #1 well was drilled by Gullick Drilling (Tool Pusher: Mike Stafford).

The location for the Waugh C #1 well was found via 3-D seismic survey. Based on the results of the drill stem test that was conducted, and the samples and wireline logs that were evaluated, the decision was made to plug and abandon the Waugh C #1 well on 10/14/12.

ROCK TYPES

Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

OTHER SYMBOLS

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

SORTING
- Well
- Moderate
- Poor

ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

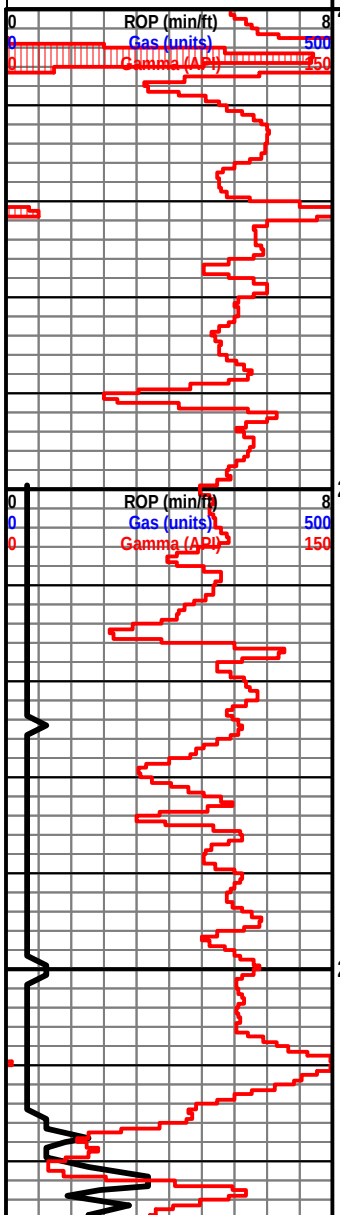
OIL SHOW
- Even
- Spotted
- Ques
- Dead

INTERVAL
- Core
- Dst

EVENT
- Rft
- Sidewall

Curve Track 1
ROP (min/ft)
Gas (units)
Gamma (API)

Depth | itholog | Oil Shows | Geological Descriptions | Drill Stem Tests



The open-hole logging was performed by Mr. Larry Smith with the Perforators, LLC (Hays, KS). Logs included: Compensated Neutron/Compensated Density, Dual Induction, and Microlog.

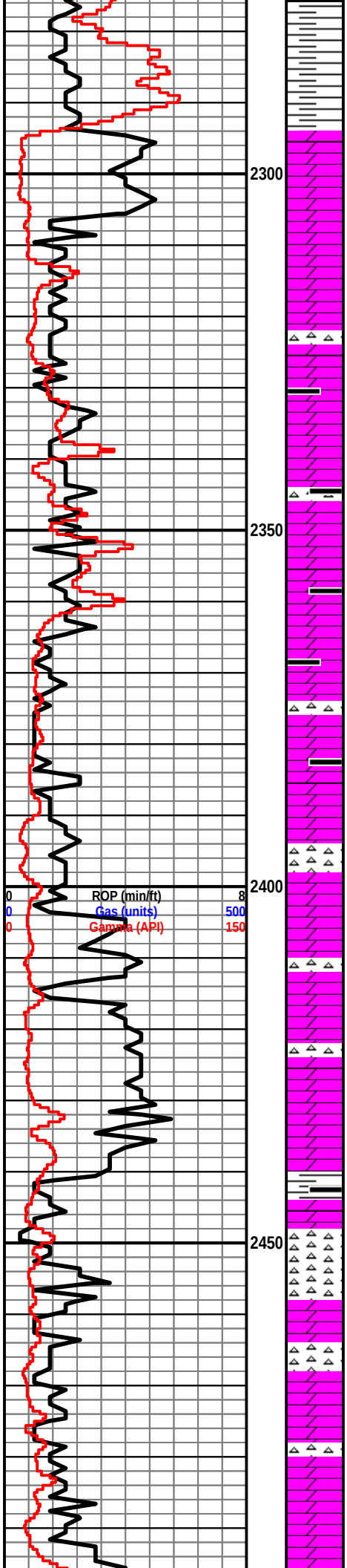
Formation tops and datums from the open-hole logs include the following:

E-Log Tops:

Mississippian: 2293' (-1016)
Kinderhook: 2626' (-1349)
Hunton: 2775' (-1498)
Maquoketa: 2832' (-1555)
Viola: 2905' (-1628)
Simpson Dolo: 3002' (-1725)
Simpson Sand: 3021' (-1744)
Arbuckle: 3065' (-1788)
LTD: 3099' (-1822)

Sh: blk, carb, silty

Sh: ala



Sh: drk gry-gry, soft

Mississippian 2294' (-1017)

Dolo: wh-lt gry, fn xln, scattered porosity, mostly DNS, chert-off wh

Dolo: off wh-tan, fn-sub xln, mostly DNS, chert

Dolo: lt gry-tan, fn xln, scattered int xln porosity, chert-off wh

Dolo: tan-lt gry, fn xln, scat int xln porosity, chert-tan-off wh

Sh: drk gry-blk, fissile, scattered

Dolo: ala

Dolo: tan-brn, fn sucrosic xln, poor int xln porosity, NSFO, No odor

Dolo: off wh-lt gry, fn xln, mostly DNS, NSFO, chert-off wh

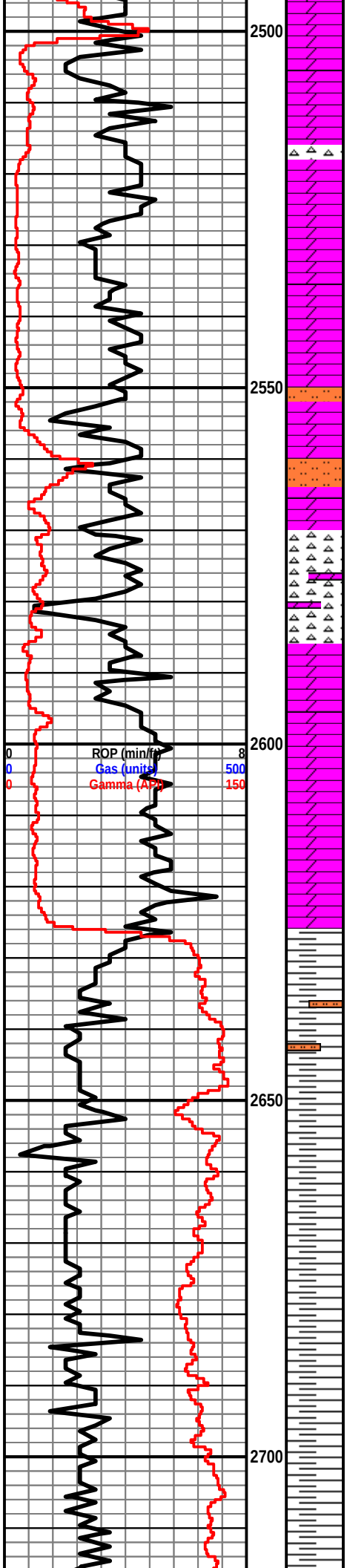
Sh: drk gry-grn, fissile

Chert: off wh-brn, fn-sub xln

Chert: ala

Dolo: tan-off wh, fn xln, mostly DNS, NSFO

Dolo: ala



Dolo: ala

Dolo: tan-off wh, fn sucrosic xln, poor int xln porosity, mostly DNS, chert-off wh

Dolo: ala

Dolo: tan-brn, fn xln, mostly DNS, sltst- lt gry-gry

Chert: off wh-brn, fn-sub xln, hard, mostly DNS
Scattered Dolo: Brn, fn-sub xln, mostly DNS

Dolo: lt gry-brn, fn-sub xln, poor int xln porosity, mostly DNS

Dolo: ala

Kinderhook 2627' (-1350)

Sh: drk gry-brn, vry soft, chalky, silty

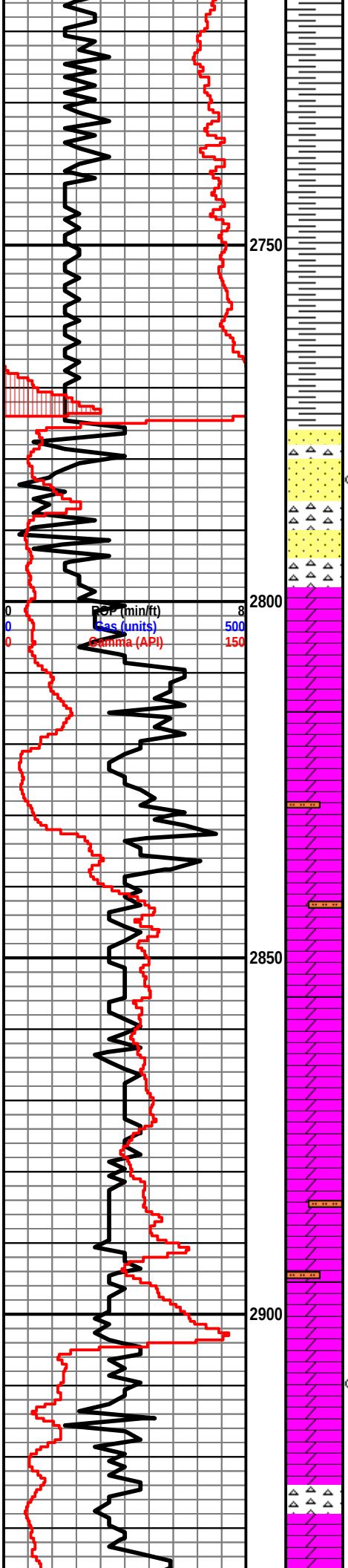
Sh: ala

Sh: drk gry, vry soft, fissile

Sh: ala

Sh: gry-drk gry

Sh: lt gry-brn, earthy



Sh: ala

Sh: drk gry-grn, vry soft

Sh: ala

Hunton 2776' (-1499)

Ss: qtz, fn-md grain, fairly well sorted, well rounded, fairly well cemented, fair int grn porosity, SSFO, sl-fair odor

Chert: off wh-gry, fw pcs of ss w/ SSFO as above

Dolo: off wh-tan, fn-sub xln, poor int xln porosity, chert-off wh-lt gry, hard

Dolo: gry-tan, fn-sub xln, mostly DNS, NSFO

Maquoketa 2826' (-1549)

Dolo: gry-tan, fn-sub xln, mostly DNS, NSFO, chalky, sltst-lt gry

Dolo: lt gry, fn-sub xln, mostly DNS, sct pyrite, sltst: lt gry, fn grain

Sh: drk gry

Dolo: gry, fn xln, mostly DNS, NSFO

Sh: gry

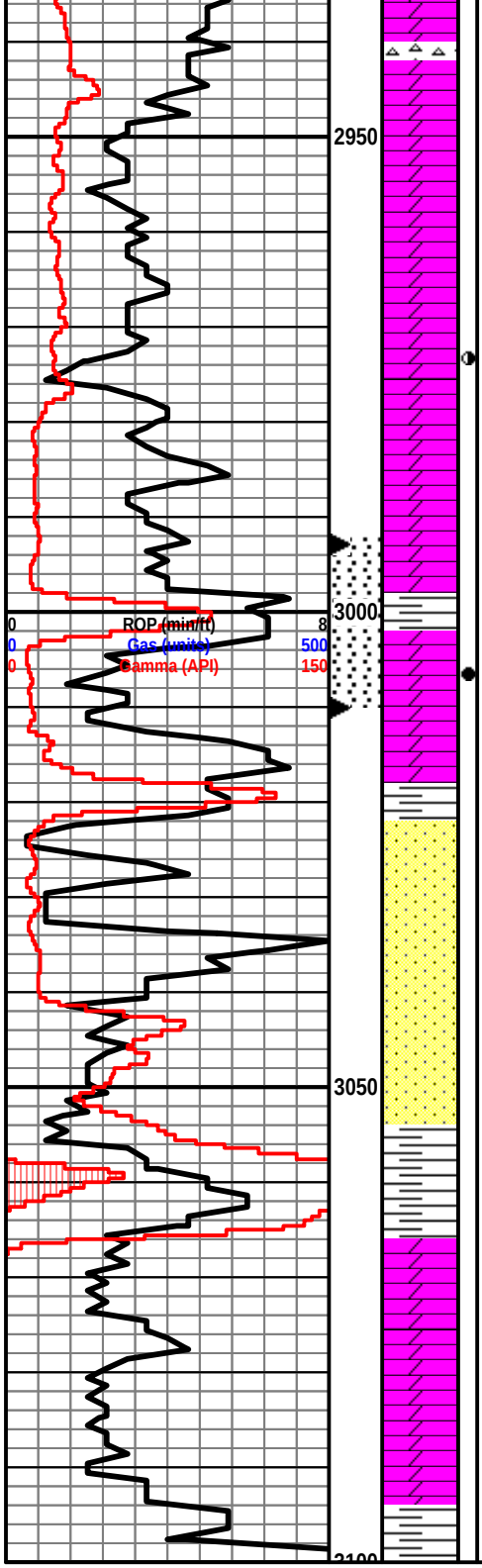
Dolo: tan-lt gry, fn xln, mostly DNS, sltst: lt gry, pyrite

Dolo: lt gry, fn xln, mostly DNS, NSFO, sltst: drk brn, vry fn grain, gritty

Viola 2904' (-1627)

Dolo: off wh, fn-md xln, poor sucrosic xln porosity, SSFO, sl odor

Dolo: off wh-tan, fn-md xln, poor int xln porosity, NSFO, no odor, chert-off wh



Dolo: tan-gry, fn xln, poor int xln porosity, NSFO, no odor, sl chert

Dolo: tan-gry, fn xln, poor int xln porosity, NSFO, no odor

Dolo: tan-drk brn, fn xln, poor-fair int xln porosity, SSFO in porosity, dark heavy, fair odor

Dolo: drk brn, fn xln, poor int xln porosity, NSFO, no odor

Simpson Dolomite 3000' (-1723)

Dolo: drk brn, fn xln, fair int xln porosity, FSFO, heavy oil, fair-strong odor, fair yel fluor

Simpson Sand 3018' (-1741)

Ss: qtz, fn grain, fairly well rounded, fair-good sorting, fair int grn porosity, fairly well cemented, barren, NSFO, sl odor

Ss: qtz, wh, fn-vry fn grain, sub rounded, poor-fair sorting, fair cementing, NSFO, barren

Ss: qtz, wh, vry fn grain, fair sorting, poor int grn porosity, well cemented, barren

Sh: drk gry-grn, soft

Arbuckle 3070' (-1793)

Dolo: tan-lt brn, fn-md xln, poor int xln porosity, hard, NSFO

Dolo: lt gry-tan, fn-md xln, poor int xln porosity, NSFO, no odor

Sh: drk gry-grn

RTD 3099' (-1822)

DST #1 2,993'-3,010' (Simpson Dolomite)
30"-30"-60"-60"
IF: weak blow built to 11", no blow back on SI
FF: BOB in 38 minutes, no blow back on SI
Rec: 625' Muddy Water (Chl. 29K)
FP: 18-181, 182-308#
SIP: 1,060-1,058#
HP: 1,444-1,426#
BHT: 114