



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1193513
OIL & GAS CONSERVATION DIVISION

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 # _____

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 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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1193513

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 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				

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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Adam Eldani Geo-Log/Report

WellSight Systems

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

Measured Depth Log

Well Name: #1 WIN 2C-3D

Location: SEC 2-TOWNSHIP 16S- RANGE 31W SCOTT COUNTY

License Number: API 15-171-21008

Region: KANSAS

Spud Date: 12/04/2013

Drilling Completed: 12/17/2013

Surface Coordinates: 1230' FSL & 40' FWL

Bottom Hole Deviation Surveys are detailed through out the Geo-Report.

Coordinates:

Ground Elevation (ft): 2867'

K.B. Elevation (ft): 2872'

Logged Interval (ft): 3400 To: 4678

Total Depth (ft): 4675'

Formation: Mississippian

Type of Drilling Fluid: Mud-Co Chemical

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

OPERATOR

Company: Ritchie Exploration Inc. (drilled by WW RIG #8)

Address: 8100 E. 22nd ST. N. #700

Wichita, KS, 67278-3188

GEOLOGIST

Name: Adam M.A. Eldani

Company: Ritchie Exploration Inc.

Address: 8100 E. 22nd ST. N. #700

Wichita, KS, 67278-3188

Tops & Drill Report

TOPS: DRILLING REPORT

Sample Tops:

Anhydrite: 2286'+586	Anhydrite: 2289'+583
B/Anhydrite: 2308'+564	B/Anhydrite: 2310'+562
Stotler: 3510'-638	Stotler: 3510'-638
Heebner: 3884'-1012	Heebner: 3888'-1016
Toronto: 3904'-1032	Toronto: 3906'-1034
Lansing: 3921'-1049	Lansing: 3927'-1055
Muncie Sh: 4094'-1222	Muncie Sh: 4097'-1225
Stark Sh: 4188'-1316	Stark Sh: 4191'-1319
Hush: 4228'-1356	Hush: 4231'-1359
BKC: 4280'-1408	BKC: 4278'-1406
Marmaton: 4305'-1433	Marmaton: 4306'-1434
Altamont: 4334'-1462	Altamont: 4317'-1445
Pawnee: 4392'-1520	Pawnee: 4395'-1523
Myrick: 4429'-1557	Myrick: 4432'-1560
Fort Scott: 4447'-1575	Fort Scott: 4450'-1578
Cherokee Sh: 4470'-1598	Cherokee Sh: 4474'-1602
Johnson: 4512'-1640	Johnson: 4514'-1642
Miss: 4557'-1685	Miss: 4558'-1686
RTD: 4675'-1803	LTD: 4678'-1806

DAILY DRILLING REPORT: SUPERIOR TESTING, INC.

DATE DEPTH:

12/04	SPUD
12/05	435'
12/06	1162'
12/07	2195'
12/08	3080'
12/09	3645'
12/10	3942'
12/11	3964'
12/12	4025'
12/13	4031'
12/14	4145'
12/15	4184'
12/16	4294'
12/17	4675'

Operations

All DST's info. are NEAR the correct log depth.

RIG: WW RIG #8

TOOL PUSHER: SID DEUTSCHER

MUD: MUD CO. (Tyler Lang)

GAS DETECTOR: N/A

DRILL STEM TEST'S: SUPERIOR TESTING

LOGS: NABORS (IAN MABB)

OFFICE: PETER FIORINI

Comments

12/4/13:

Moved in and rigged up. Spud at 3:00 p.m. Ran 5 jts used 23# 8-5/8" surface casing. Tally at 223.44', set at 229'. Cemented with 165 sacks common, 2% gel, 3% cc. Cement did circulate. Plug down at 8:00 p.m. Drilled out plug at 4:00 a.m. on 12/5/13.

After the results of SAMPLE LOGGING, ELECTRIC LOGGING, AND ALL DST TESTS ANALYSIS & CALCULATIONS. IT WAS ELECTED TO PLUG and ABANDON THE #1 WIN 2C-3D.

Plug and Abandon. 1st plug set at 2310' with 50 sacks 60/40 Poz, 4% gel, 1/4# flocele; 2nd plug set at 1650' with 80 sacks; 3rd plug set at 800' with 50 sacks; 4th plug set at 260' with 40 sacks; 5th plug set at 60' with 20 sacks; 240 total sacks. Plugged the rat hole with 30 sacks. Job complete at 8:00 a.m. Plugging orders by Dan Sellers with the KCC.

Well Log Surveys BY: NABORS. Compensated Denisty/ Neutron Log, Dual Induction.

SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.

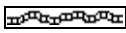
RESPECTFULLY SUBMITTED

Adam M. A. Eldani

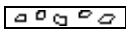
ROCK TYPES



Anhy



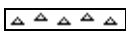
Bent



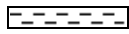
Brec



Carb sh



Cht



Clyst



Coal



Congl



Dol



Gyp



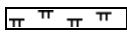
Igne



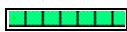
Lmst



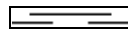
Meta



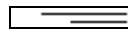
Mrlst



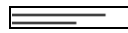
Salt



Shale



Shcol



Shgy



Sltst



Ss



Till

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

FOSSIL

- Algae
- Amph

- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Fuss
- Gastro
- Oolite
- Oomold
- Ostra
- Pelec

- Pellet
- Pisolite
- Plant
- Strom

STRINGER

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

TEXTURE

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

OTHER SYMBOLS

POROSITY

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

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Even
- Spotted
- Ques
- Dead

- Dst_alt
- Dst

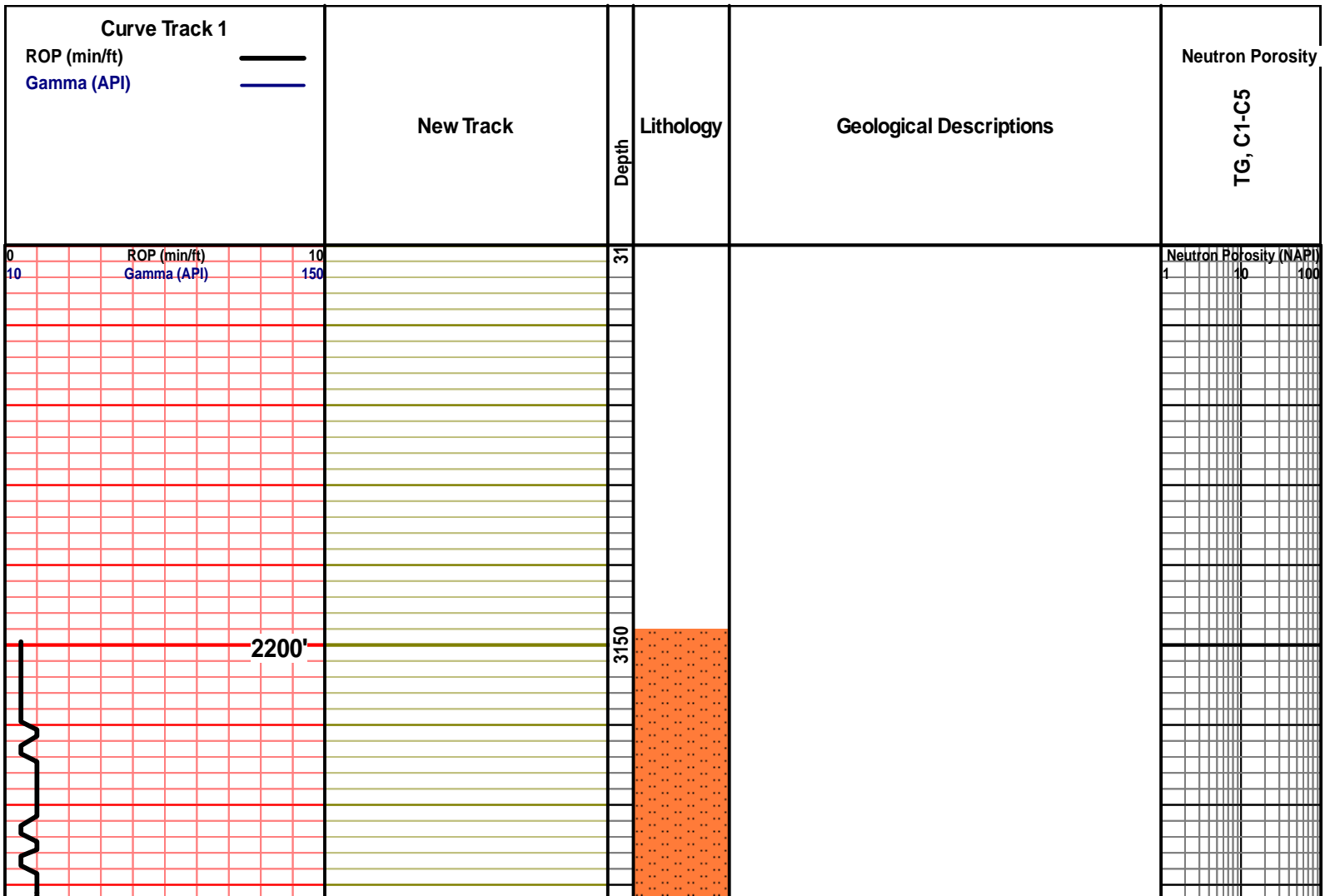
EVENT

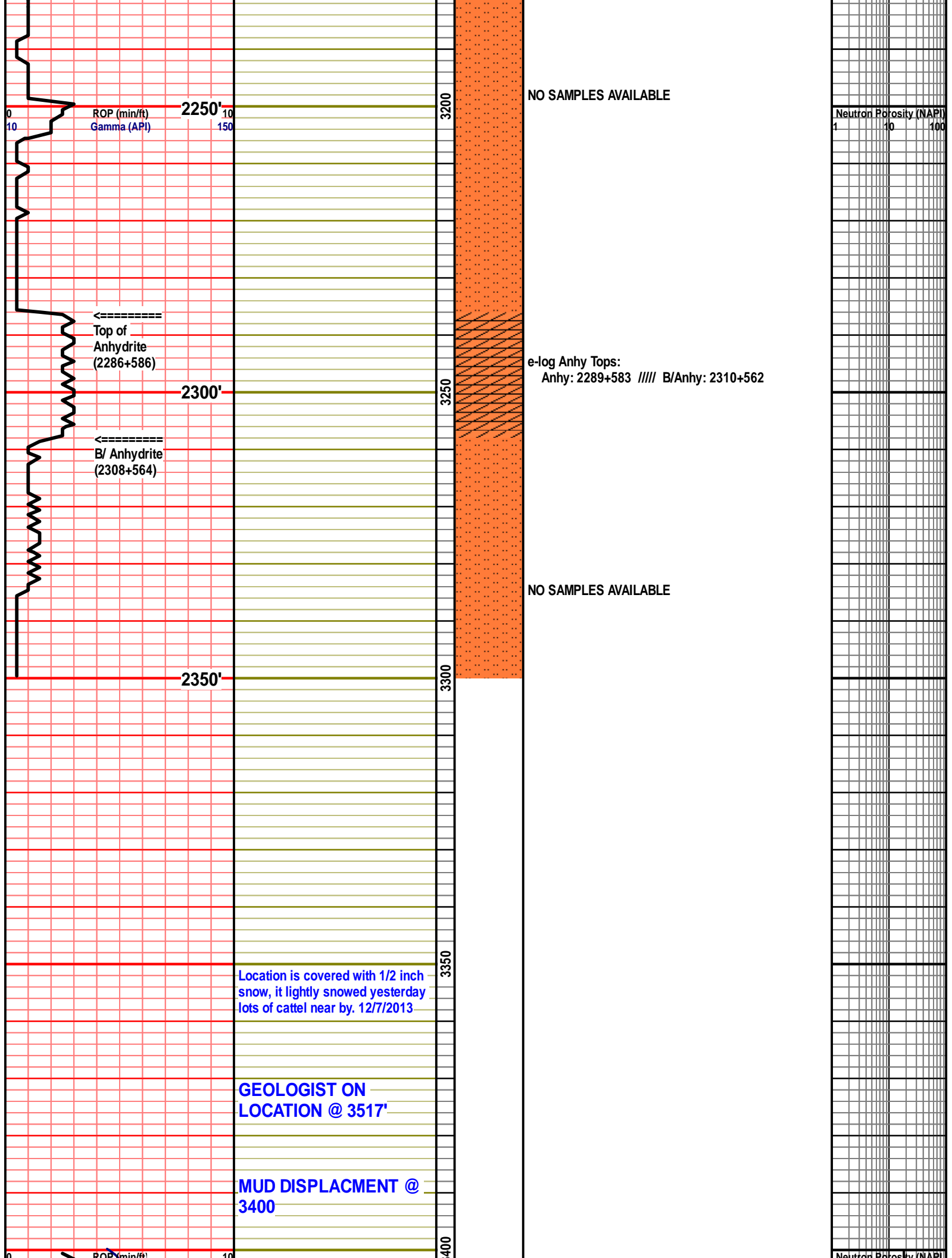
- Rft
- Sidewall

INTERVAL

- Core
- Dst

- OIL SHOW
- aimimg_1





ROP (min/ft)
Gamma (API)

2250'
10
150

3200

NO SAMPLES AVAILABLE

Neutron Porosity (NAPI)
1 10 100

←-----
Top of
Anhydrite
(2286+586)

2300'

3250

e-log Anhy Tops:
Anhy: 2289+583 // B/Anhy: 2310+562

←-----
B/ Anhydrite
(2308+564)

2350'

3300

NO SAMPLES AVAILABLE

Location is covered with 1/2 inch
snow, it lightly snowed yesterday
lots of cattel near by. 12/7/2013

3350

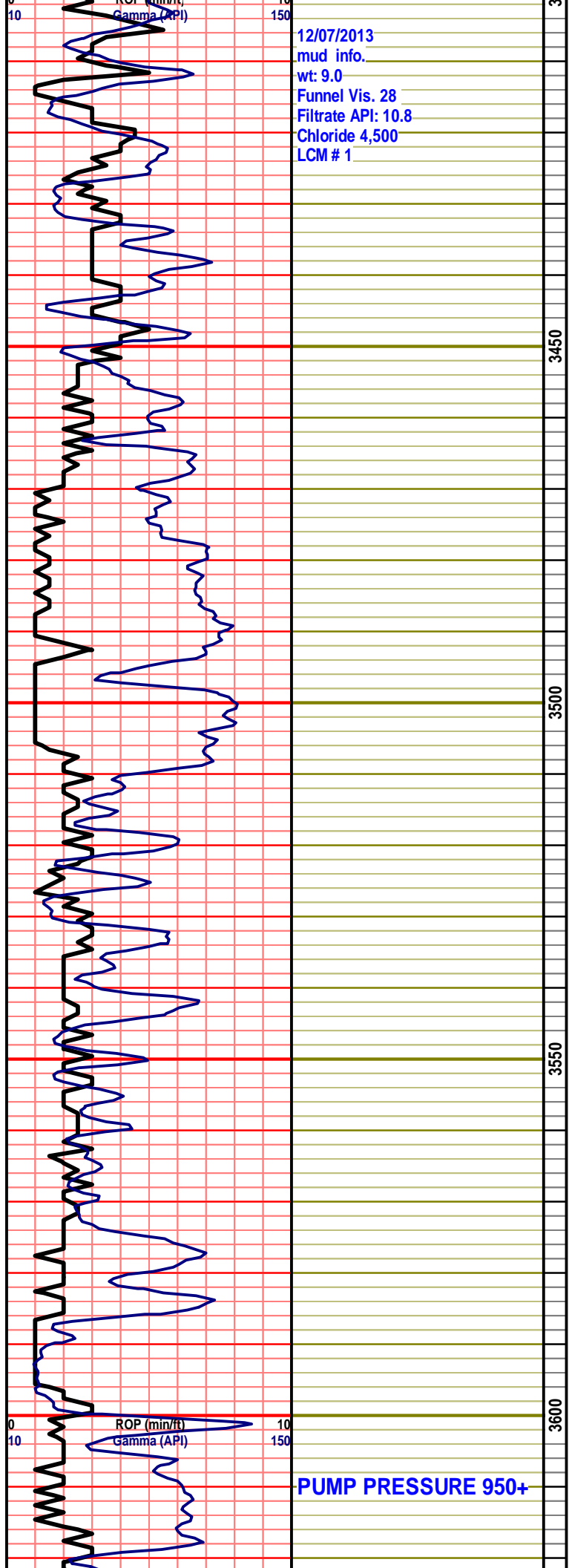
GEOLOGIST ON
LOCATION @ 3517'

MUD DISPLACMENT @
3400

3400

ROP (min/ft)

Neutron Porosity (NAPI)

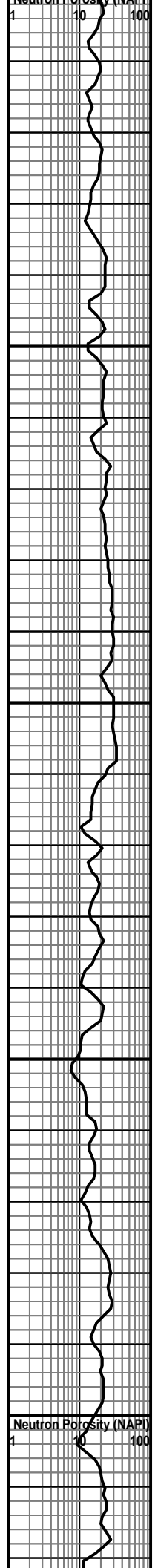


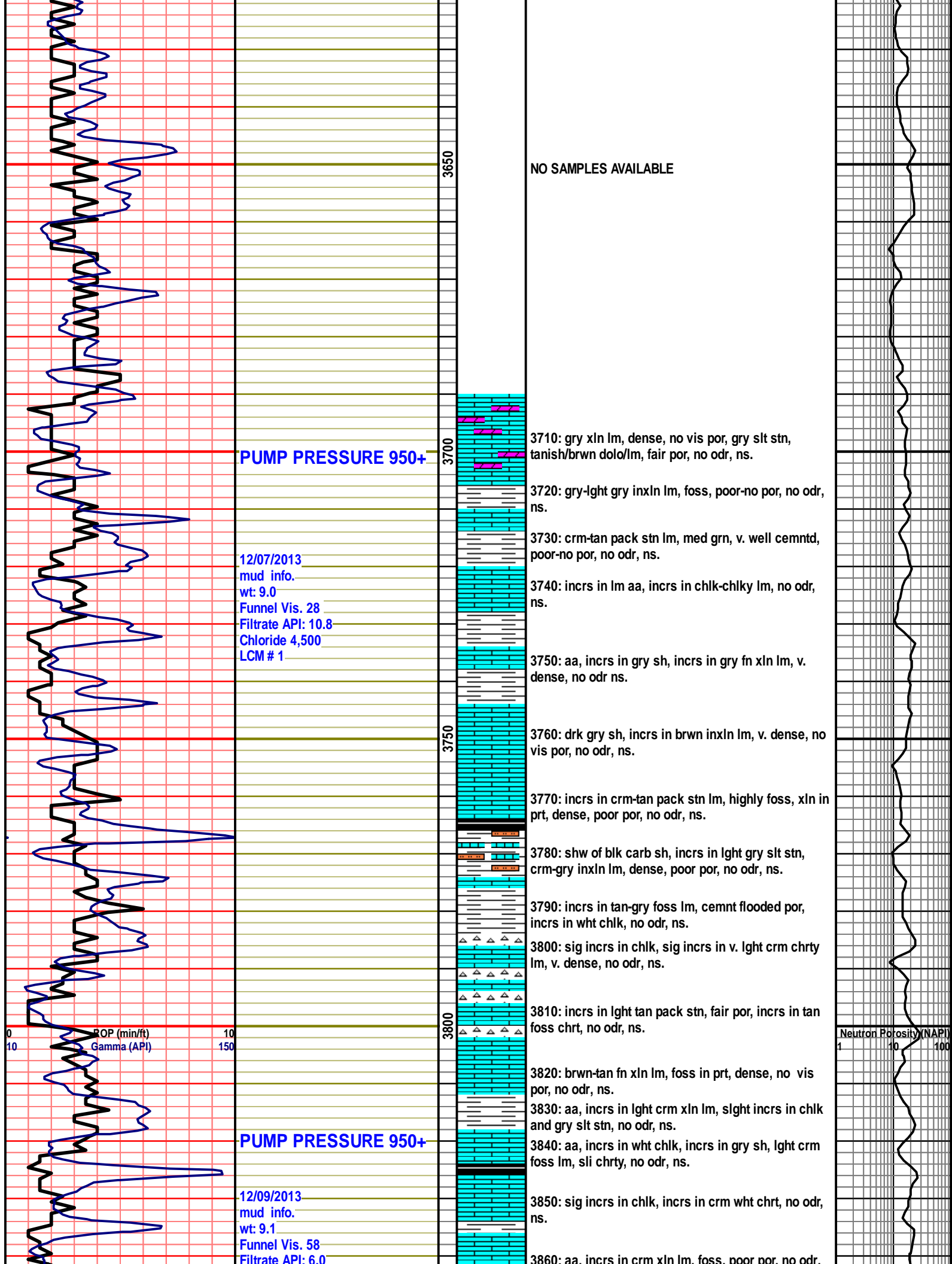
12/07/2013
mud info.
wt: 9.0
Funnel Vis: 28
Filtrate API: 10.8
Chloride 4,500
LCM # 1

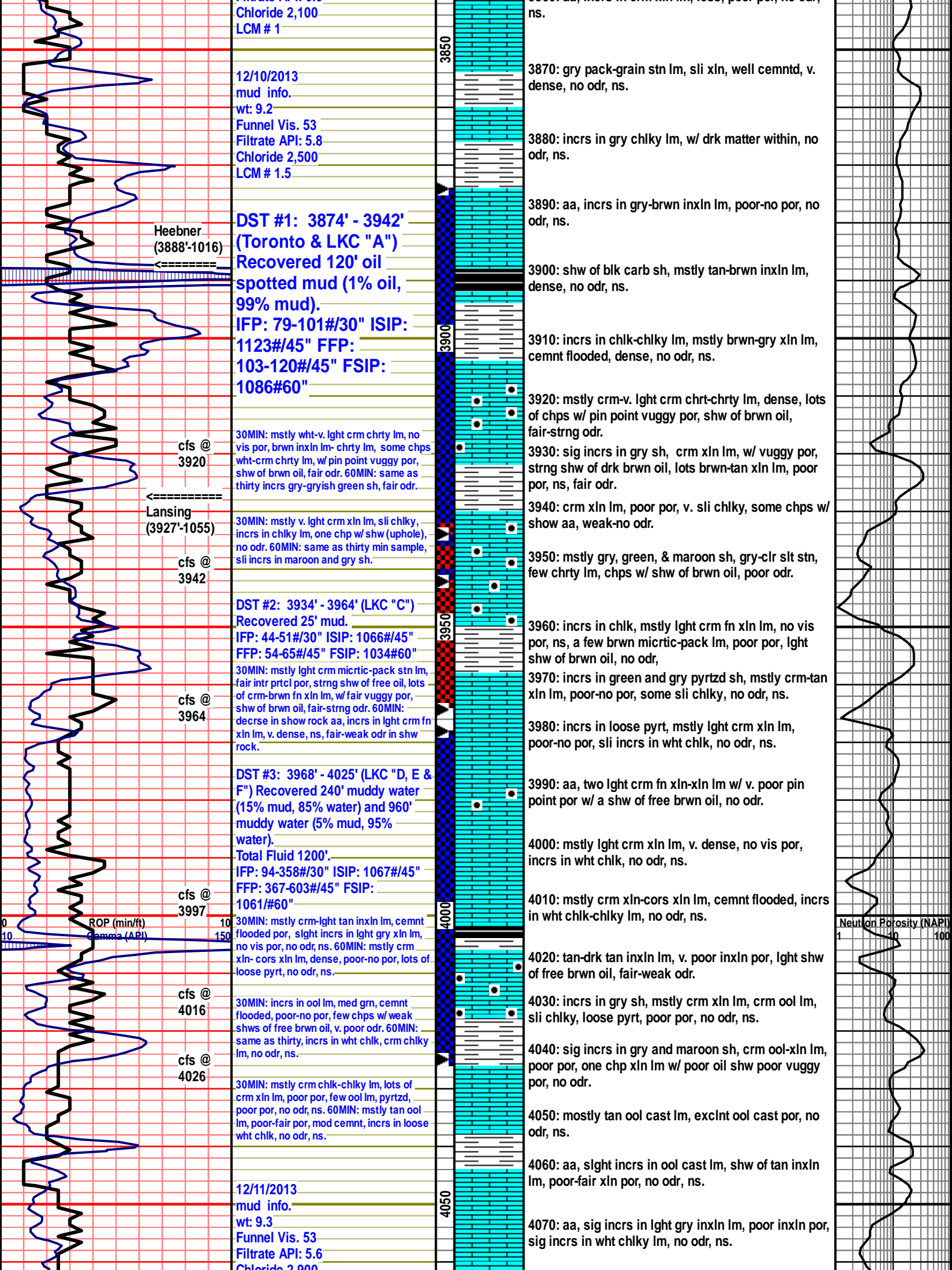
NO SAMPLES AVAILABLE

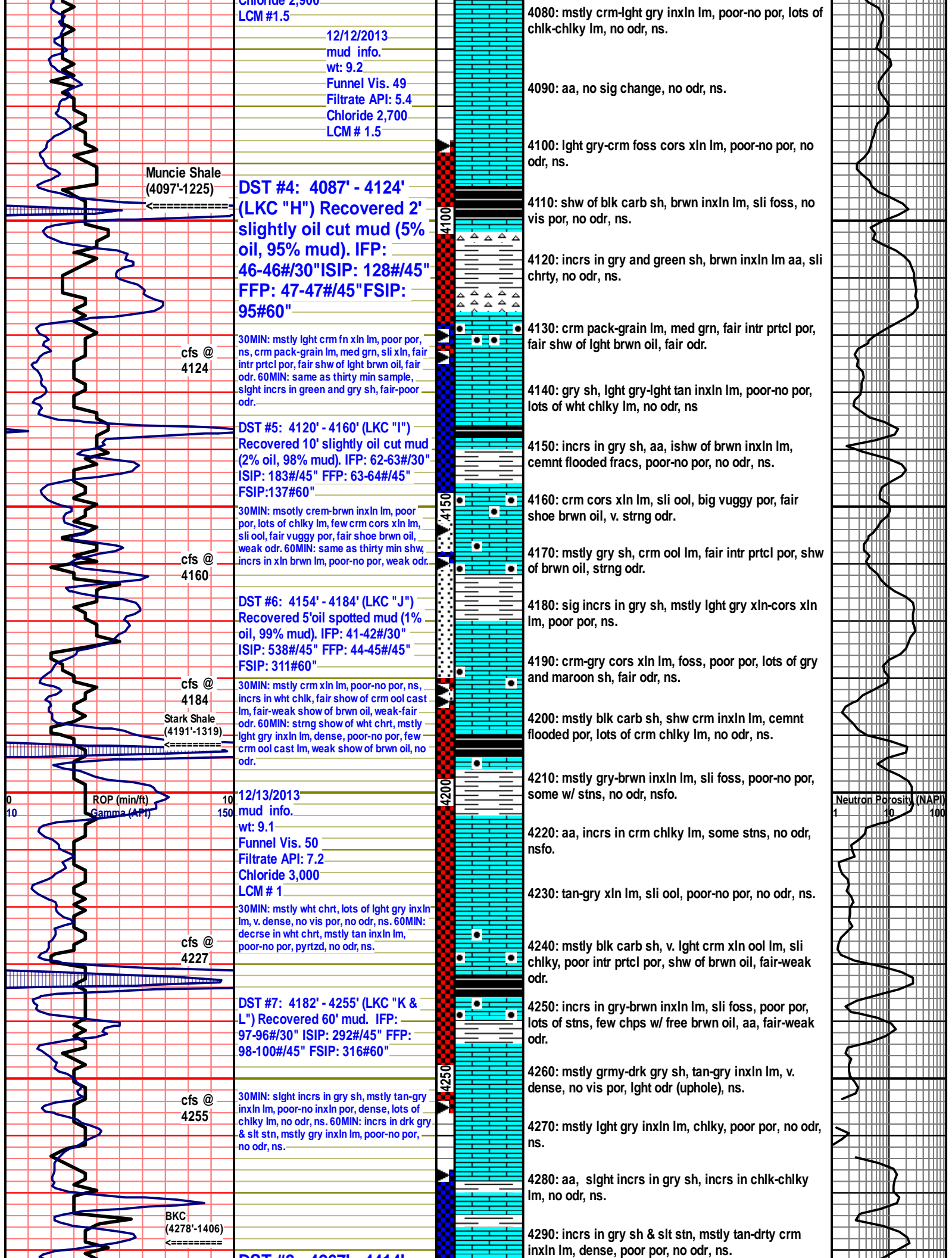
NO SAMPLES AVAILABLE

PUMP PRESSURE 950+









Chloride 2,900
 LCM #1.5
 12/12/2013
 mud info.
 wt: 9.2
 Funnel Vis. 49
 Filtrate API: 5.4
 Chloride 2,700
 LCM # 1.5

4080: msty crm-lght gry inxln lm, poor-no por, lots of chlk-chlky lm, no odr, ns.
 4090: aa, no sig change, no odr, ns.
 4100: lght gry-crm foss cors xln lm, poor-no por, no odr, ns.
 4110: shw of blk carb sh, brwn inxln lm, sli foss, no vis por, no odr, ns.
 4120: incrs in gry and green sh, brwn inxln lm aa, sli chrty, no odr, ns.
 4130: crm pack-grain lm, med grn, fair intr prtcl por, fair shw of lght brwn oil, fair odr.
 4140: gry sh, lght gry-lght tan inxln lm, poor-no por, lots of wht chlky lm, no odr, ns
 4150: incrs in gry sh, aa, ishw of brwn inxln lm, cemnt flooded fracs, poor-no por, no odr, ns.
 4160: crm cors xln lm, sli ool, big vuggy por, fair shoe brwn oil, v. strng odr.
 4170: mstly gry sh, crm ool lm, fair intr prtcl por, shw of brwn oil, strng odr.
 4180: sig incrs in gry sh, mstly lght gry xln-cors xln lm, poor por, ns.
 4190: crm-gry cors xln lm, foss, poor por, lots of gry and maroon sh, fair odr, ns.
 4200: mstly blk carb sh, shw crm inxln lm, cemnt flooded por, lots of crm chlky lm, no odr, ns.
 4210: mstly gry-brwn inxln lm, sli foss, poor-no por, some w/ stns, no odr, nsfo.
 4220: aa, incrs in crm chlky lm, some stns, no odr, nsfo.
 4230: tan-gry xln lm, sli ool, poor-no por, no odr, ns.
 4240: mstly blk carb sh, v. lght crm xln ool lm, sli chlky, poor intr prtcl por, shw of brwn oil, fair-weak odr.
 4250: incrs in gry-brwn inxln lm, sli foss, poor por, lots of stns, few chps w/ free brwn oil, aa, fair-weak odr.
 4260: mstly grmy-drk gry sh, tan-gry inxln lm, v. dense, no vis por, lght odr (uphole), ns.
 4270: mstly lght gry inxln lm, chlky, poor por, no odr, ns.
 4280: aa, slght incrs in gry sh, incrs in chlk-chlky lm, no odr, ns.
 4290: incrs in gry sh & slit stn, mstly tan-drtty crm inxln lm, dense, poor por, no odr, ns.

Muncie Shale
 (4097'-1225)
 ←-----

DST #4: 4087' - 4124'
 (LKC "H") Recovered 2' slightly oil cut mud (5% oil, 95% mud). IFP: 46-46#/30" ISIP: 128#/45" FFP: 47-47#/45" FSIP: 95#60"

cfs @
 4124

30MIN: mstly lght crm fn xln lm, poor por, ns, crm pack-grain lm, med grn, sli xln, fair intr prtcl por, fair shw of lght brwn oil, fair odr. 60MIN: same as thirty min sample, slght incrs in green and gry sh, fair-poor odr.

DST #5: 4120' - 4160' (LKC "I")
 Recovered 10' slightly oil cut mud (2% oil, 98% mud). IFP: 62-63#/30" ISIP: 183#/45" FFP: 63-64#/45" FSIP: 137#60"

cfs @
 4160

30MIN: msotly crem-brwn inxln lm, poor por, lots of chlky lm, few crm cors xln lm, sli ool, fair vuggy por, fair shoe brwn oil, weak odr. 60MIN: same as thirty min shw, incrs in xln brwn lm, poor-no por, weak odr.

DST #6: 4154' - 4184' (LKC "J")
 Recovered 5' oil spotted mud (1% oil, 99% mud). IFP: 41-42#/30" ISIP: 538#/45" FFP: 44-45#/45" FSIP: 311#60"

cfs @
 4184

Stark Shale
 (4191'-1319)
 ←-----

30MIN: mstly crm xln lm, poor-no por, ns, incrs in wht chlk, fair show of crm ool cast lm, fair-weak show of brwn oil, weak-fair odr. 60MIN: strng show of wht chr, mstly lght gry inxln lm, dense, poor-no por, few crm ool cast lm, weak show of brwn oil, no odr.

ROP (min/ft)
 Gamma (API)

12/13/2013
 mud info.
 wt: 9.1
 Funnel Vis. 50
 Filtrate API: 7.2
 Chloride 3,000
 LCM # 1

cfs @
 4227

30MIN: mstly wht chr, lots of lght gry inxln lm, v. dense, no vis por, no odr, ns. 60MIN: decrse in wht chr, mstly tan inxln lm, poor-no por, pyrtzd, no odr, ns.

DST #7: 4182' - 4255' (LKC "K & L")
 Recovered 60' mud. IFP: 97-96#/30" ISIP: 292#/45" FFP: 98-100#/45" FSIP: 316#60"

cfs @
 4255

30MIN: slght incrs in gry sh, mstly tan-gry inxln lm, poor-no inxln por, dense, lots of chlky lm, no odr, ns. 60MIN: incrs in drk gry & slit stn, mstly gry inxln lm, poor-no por, no odr, ns.

BKC
 (4278'-1406)
 ←-----

DST #8: 4278' - 4414'

Neutron Porosity (NAPI)
 1 10 100

DST #8: 4267' - 4414'
(Marmaton, Altamont & Pawnee) Recovered 7' mud. IFP: 110-112#/30" ISIP: 448#/45" FFP: 114-115#/45" FSIP: 390#60"

Marmaton
 (4306'-1434)
 cfs @
 4314
 Altamont
 (4317'-1445)

30MIN: tan-lght brwn inxln lm, fn xln in prt, poor xln por, lght shw of brwn oil, v. weak odr. 60MIN: mstly tan chrt lm, dense, chrtly in prt, no odr, ns.

12/14/2013
 mud info.
 wt: 9.2
 Funnel Vis. 54
 Filtrate API: 8.0
 Chloride 2,800
 LCM # 1

PUMP PRESSURE 900+

12/15/2013
 mud info.
 wt: 9.2
 Funnel Vis. 46
 Filtrate API: 8.8
 Chloride 3,100
 LCM # 1

Pawnee
 (4395'-1523)
 ROP (min/ft)
 Gamma (API)

cfs @
 4414

30MIN: mstly tan foss chrt, tan inxln lm, dense, no vis por, lots of crm chlky lm, no odr, ns. 60MIN: same as thirty, incrs in chlky lm, no odr, ns.

cfs @
 4435

30MIN: lots of wht milky chrt, crm inxln lm, sli pyrtzd, some chlky, no odr, ns. 60MIN: mstly lght crm inxln lm, chlky, tan-gry xln lm, cemnt flooded, sli foss, poor-no por, no odr, ns.

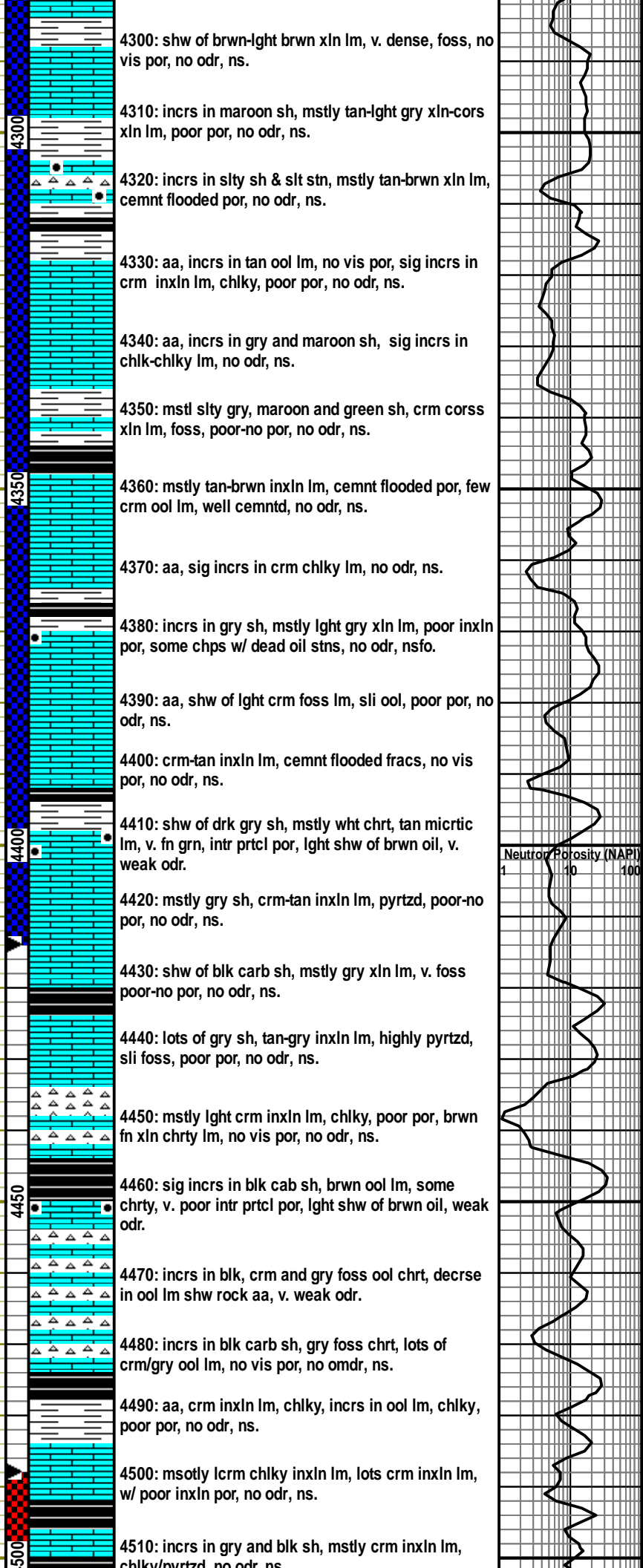
Fort Scott
 (4450'-1578)

cfs @
 4470

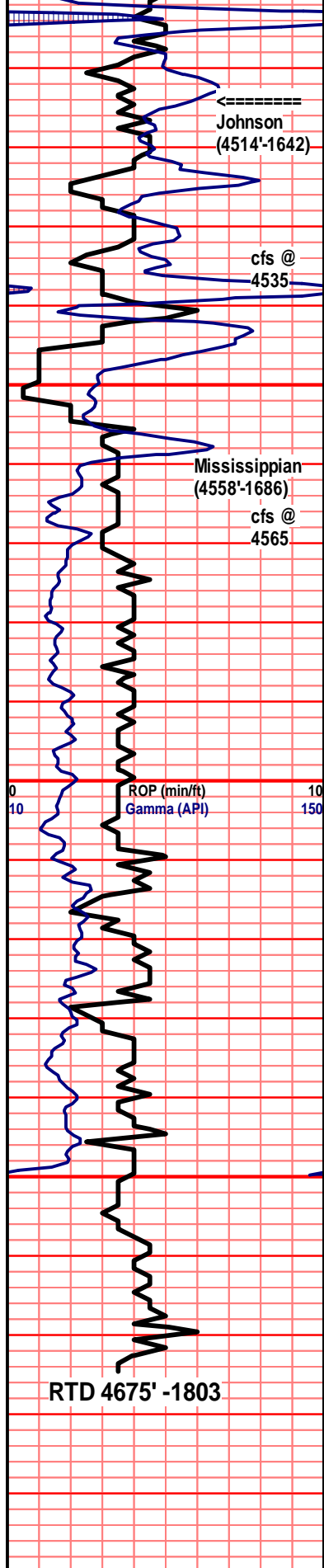
30MIN: mstly crm fn xln lm, no vis por, crm-tan inxln lm, chrtly, poor-no por, no odr, ns. 60MIN: lots of tan chrt, mstly crm-tan inxln lm, w/ chrt foss nod, no odr, ns.

Cherokee Shale
 (4474'-1602)

DST #9: 4488' - 4535'
(Johnson) Recovered 120' oil spotted mud (1% oil, 99% mud) and 20' oil spotted mud (2%



Neutron Porosity (NAPI)
 1 10 100



30 oil spotted mud (3% oil, 97% mud).
Total Fluid 150' IFP:
58-98#/30" ISIP:
1131#/45" FFP:
103-122#/45" FSIP:
1074#60"

30MIN: mstly wht chlk, lots of gry/brwn inxln lm, w/ poor-no por, cemnt flooded por, gry inxln lm, w/ vuggy por, strng shw of brwn oil, fair odr upon brking. 60MIN: mstly chlk and gry inxln lm, no vis por, few shw rock same as thirty min, no odr, ns.

PUMP PRESSURE 950+

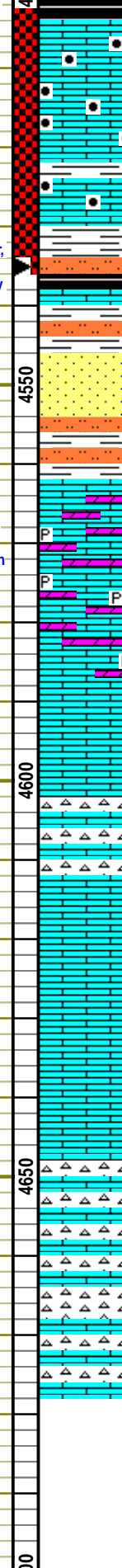
30MIN: lots of wht qtz ss, v. fn grn, rounded, well cemntd and sortd, poor por, crm semi foss chrt, lots of crm inxln lm, poor-no por, no odr, ns. 60MIN: sig decrs in ss, incrs in crm inxln lm, poor-no por, no odr, ns.

PUMP PRESSURE 950+

12/16/2013 mud info.
 wt: 9.2
 Funnel Vis. 55
 Filtrate API: 8.0
 Chloride 3,000
 LCM # 1

PUMP PRESSURE 950+

30MIN: mstly wht chrt-chrty lm, crm-tan pack stn lm, fn-med grn, poor por, no odr, ns. 60MIN: same as thirty min, no sig change.



4520: lots of gry and green sh, tan-brwn xln lm, w/ poor pin point vuggy por, lght shw of brwn oil, v. weak odr.

4530: gry inxln lm, w/ inxln por, strng shw of brwn oil, fair-strng odr.

4540: incrs in green and gry sh, crm-tan inxln lm, poor por, pyrtzd, no odr, ns.

4550: greater incrs in green sh, shw of crm pack stn lm, v. fn-med grn, chlky, fair por, no odr, ns.

4560: shw of crm sandy lm, v. fn grn, rich in matrix clay, shw of wht-green qtz ss, v. fn grn, rounded, well cemntd and sortd, poor por, no odr, ns.

4570: incrs in gry sh and slt stn, mstly crm xln lm, pyrtzd, poor por, no odr, ns.

4580: aa, incrs in v. lght crm dolo/lm, med grn, fair intr prtcl por, no odr, ns.

4590: incrs in dolo/lm aa, no odr, ns.

4600: tan inxln lm, dense, poor-no inxln por, no odr, ns.

4610: tan inxln lm, dense, poor-no inxln por, sli foss, incrs in chlky lm, no odr, ns.

4620: incrs in crm chrt, mstyl tan-drk crminxln lm, dense, poor por, no odr, ns.

4630: incrs in gry and green sh, lm aa, no odr, ns.

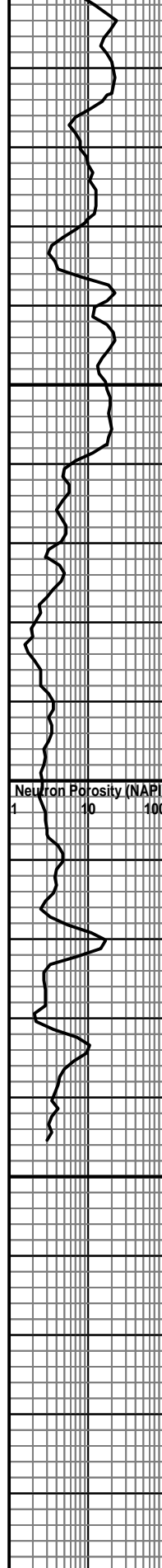
4640: drk crm pack stn lm, sli xln, med-cors grn, poor por, no odr, ns.

4650: mstly drk crm fn xln lm, no vis por, few ool cast lm, fair-poor ool cast por, no odr, ns.

4660: aa, incrs fn xln lm, no vis por, cemnt flooded fracs, no odr, ns.

4670: tan inxln lm, sli ool, poor-no por no odr, ns.

4675: aa, incrs in crm chrt, poor-no por, no odr, ns.





#1 Win 2C-3D

Previously known as #1 Winderlin 2C-3D

1230' FSL & 40' FWL

90' S & 290' W of W/2 W/2 SW Section 2-16S-31W

Scott County, Kansas

API# 15-171-21008-0000

Elevation: 2867' GL, 2872' KB

Sample Tops			Ref. Well
Anhydrite	2286'	+586	+1
B/Anhydrite	2308'	+564	Flat
Stotler	3510'	-638	+2
Heebner	3884'	-1012	+2
Toronto	3904'	-1032	Flat
Lansing	3921'	-1049	+3
Muncie Shale	4094'	-1222	-4
Stark Shale	4188'	-1316	-5
Hush	4228'	-1356	-2
BKC	4280'	-1408	-5
Marmaton	4305'	-1433	-2
Altamont	4334'	-1462	-6
Pawnee	4392'	-1520	Flat
Myrick	4429'	-1557	-3
Fort Scott	4447'	-1575	-4
Cherokee Shale	4470'	-1598	-1
Johnson	4512'	-1640	-2
Mississippian	4557'	-1685	-8
RTD	4675'	-1803	

ALLIED OIL & GAS SERVICES, LLC 062109

Federal Tax I.D. # 20-8851475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Daklog, KS

DATE <u>12-17-17</u>	SEC. <u>2</u>	TWP. <u>16</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>3:00 am</u>	JOB START <u>7:00 am</u>	JOB FINISH <u>8:00 am</u>
LEASE <u>WV 2C-3D</u>	WELL # <u>1</u>	LOCATION <u>Daklog 5 to Hwy 4/83 Det</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>8E, 4N, 1E, 24, Winko</u>			

CONTRACTOR <u>WV 8</u>	OWNER <u>same</u>																																
TYPE OF JOB <u>PTA</u>																																	
HOLE SIZE <u>7 7/8</u>	T.D. <u>4625'</u>																																
CASING SIZE	DEPTH																																
TUBING SIZE	DEPTH																																
DRILL PIPE <u>4 1/2</u>	DEPTH <u>2310'</u>																																
TOOL	DEPTH																																
PRES. MAX	MINIMUM																																
MEAS. LINE	SHOE JOINT																																
CEMENT LEFT IN CSG.																																	
PERFS.																																	
DISPLACEMENT <u>25.74661</u>																																	
EQUIPMENT																																	
PUMP TRUCK # <u>431</u>	CEMENTER <u>Lakone E. Wentz</u>																																
	HELPER <u>Kelly Gabel</u>																																
BULK TRUCK # <u>376/306</u>	DRIVER <u>Juan Mendez</u>																																
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<table style="width: 100%;"> <tr> <td style="width: 50%;">CEMENT</td> <td style="width: 50%;">AMOUNT ORDERED <u>2705 lbs 60/40 4894</u></td> </tr> <tr> <td></td> <td><u>1/4 # flo-seal</u></td> </tr> <tr> <td>COMMON</td> <td><u>1625 lb @ 17.90 2899.80</u></td> </tr> <tr> <td>POZMIX</td> <td><u>1085 lb @ 9.35 1009.80</u></td> </tr> <tr> <td>GEL</td> <td><u>95 lb @ 23.40 210.60</u></td> </tr> <tr> <td>CHLORIDE</td> <td>@</td> </tr> <tr> <td>ASC</td> <td>@</td> </tr> <tr> <td><u>flo-seal 68 #</u></td> <td><u>@ 2.97 201.96</u></td> </tr> <tr> <td></td> <td>@</td> </tr> <tr> <td></td> <td>@</td> </tr> <tr> <td></td> <td>@</td> </tr> <tr> <td></td> <td>@</td> </tr> <tr> <td></td> <td>@</td> </tr> <tr> <td>HANDLING</td> <td><u>289.98 sf @ 2.48 719.15</u></td> </tr> <tr> <td>MILEAGE</td> <td><u>12.11 ton x 53 x 2.60 1731.73</u></td> </tr> <tr> <td colspan="2" style="text-align: right;">TOTAL 6773.04</td> </tr> </table>		CEMENT	AMOUNT ORDERED <u>2705 lbs 60/40 4894</u>		<u>1/4 # flo-seal</u>	COMMON	<u>1625 lb @ 17.90 2899.80</u>	POZMIX	<u>1085 lb @ 9.35 1009.80</u>	GEL	<u>95 lb @ 23.40 210.60</u>	CHLORIDE	@	ASC	@	<u>flo-seal 68 #</u>	<u>@ 2.97 201.96</u>		@		@		@		@		@	HANDLING	<u>289.98 sf @ 2.48 719.15</u>	MILEAGE	<u>12.11 ton x 53 x 2.60 1731.73</u>	TOTAL 6773.04	
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REMARKS:
Mix 50.5 lb at 2310'
Mix 80 5 lb at 1650'
Mix 50 5 lb at 900'
Mix 40 5 lb at 260'
Mix 20 5 lb at 60'
plug R.H. 305 lb

Thank you

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2310'</u>
PUMP TRUCK CHARGE	<u>2483.59</u>
EXTRA FOOTAGE	@
MILEAGE <u>MILV</u>	<u>55 @ 7.70 423.50</u>
MANIFOLD <u>MILV</u>	<u>55 @ 4.40 242.00</u>
	@
TOTAL 3149.09	

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Sid Detscher
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 9,922.13
 DISCOUNT 2,282.08 IF PAID IN 30 DAYS
7,640.05 Net.

ALLIED OIL & GAS SERVICES, LLC 062163

Federal Tax I.D. #20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley KS

DATE <u>12-4-13</u>	SEC. <u>2</u>	TWP. <u>16</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>5:00pm</u>	JOB START <u>7:30pm</u>	JOB FINISH <u>8:00pm</u>
LEASE <u>Win 2-3D</u>		WELL # <u>1</u>	LOCATION <u>Dakley St to Hwy 4E to Taos</u>		COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one)		Ed N. to Rd 2801 E. 2N Winto					

CONTRACTOR <u>WWB</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Sur Face</u>	CEMENT AMOUNT ORDERED <u>11.5 sks Com 3%CC</u>
HOLE SIZE <u>12 1/4</u> T.D. <u>230</u>	<u>2% gel</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>230.44'</u>	COMMON <u>16.5 sks @ 17.90 2953.50</u>
TUBING SIZE DEPTH	POZMIX <u>3 sks @ 23.40 70.20</u>
DRILL PIPE DEPTH	GEL <u>.6 sks @ 64.00 384.00</u>
TOOL DEPTH	CHLORIDE <u>.6 sks @ 64.00 384.00</u>
PRES. MAX MINIMUM	ASC @
MEAS. LINE SHOE JOINT	@
CEMENT LEFT IN CSG. <u>15'</u>	@
PERFS.	@
DISPLACEMENT <u>13.72</u>	@

EQUIPMENT

PUMP TRUCK # 120 CEMENTER Paul Beaver
 # 600 DRIVER Brandon Wilkinson
 # DRIVER

REMARKS:
Mix 11.5 sks Com 3%CC 2% gel
Displace w/ 13.72 bbls water
Cement did circulate
Thank you Paul + Tyler

HANDLING <u>178.92 ft³ @ 2.48</u>	<u>442.48</u>
MILEAGE <u>8.14 tons x 55 mi x 2.60</u>	<u>1164.00</u>
TOTAL <u>5014.20</u>	

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>230'</u>	
PUMP TRUCK CHARGE <u>1512.25</u>	
EXTRA FOOTAGE @	
MILEAGE <u>MIHV 55 @ 7.70</u>	<u>423.50</u>
MANIFOLD <u>Swedge @ 275.00</u>	<u>N/C</u>
<u>MLV 55 @ 4.90</u>	<u>242.00</u>
TOTAL <u>2177.75</u>	

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

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PRINTED NAME Sid Deutscher
 SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES 7,191.95
 DISCOUNT 1,654.14 IF PAID IN 30 DAYS
5,537.80 Net.