



KANSAS CORPORATION COMMISSION 1104866
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: 8100 E 22ND ST N # 700
Address 2: BOX 783188
City: WICHITA State: KS Zip: 67278 + 3188
Contact Person: John Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Adam Eldani
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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

08/15/2012	08/25/2012	08/25/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-22035-00-00

Spot Description: 105' S & 35'E of
NE SW SW NW Sec. 19 Twp. 12 S. R. 31 East West
2085 Feet from North / South Line of Section
365 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Gove
Lease Name: Smith 19B Well #: 1

Field Name:

Producing Formation: none

Elevation: Ground: 2900 Kelly Bushing: 2910

Total Depth: 4670 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 224 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: 7000 ppm Fluid volume: 850 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

Letter of Confidentiality Received
Date: 12/14/2012
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 12/17/2012



1104866

Operator Name: Ritchie Exploration, Inc. Lease Name: Smith 19B Well #: 1
Sec. 19 Twp. 12 S. R. 31 East West County: Gove

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run
Electric Log Submitted Electronically (If no, Submit Copy)
List All E. Logs Run:
Dual Induction Log
Compensated Density/Neutron Log

Log Formation (Top), Depth and Datum
Name Top Datum

SEE ATTACHED

CASING RECORD Table with columns: 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. Row 1: Surface, 12.25, 8.625, 23, 224, common, 175, 2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, # Sacks Used, Type and Percent Additives

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 Solid Used on Lease
METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)
PRODUCTION INTERVAL:



#1 Smith 19B
2085' FNL & 365' FWL
Section 19-12S-31W
Gove County, Kansas
API# 15-063-22035-00-00
Elevation: 2900' GL, 2910' KB

Sample Tops			Ref. Well
Anhydrite	2410'	+500	+33
B/Anhydrite	2430'	+480	+37
Heebner	3917'	-1007	+16
Toronto	3946'	-1036	+17
Lansing	3960'	-1050	+17
LKC-C	3994'	-1084	+15
Muncie Shale	4109'	-1199	+6
Stark	4188'	-1278	+14
Hush	4220'	-1310	+18
BKC	4246'	-1336	+19
Marmaton	4274'	-1364	+23
Altamont	4298'	-1388	+15
Pawnee	4369'	-1459	+26
Myrick	4408'	-1498	+25
Fort Scott	4427'	-1517	+28
Cherokee Shale	4454'	-1544	+26
Johnson	4498'	-1588	+26
Morrow Sand	4519'	-1609	+23
Mississippian	4547'	-1637	+18
RTD	4670'	-1760	

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328

SMITH 19B-1

ALLIED OIL & GAS SERVICES, LLC 056735

SHIP TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Oakley

DATE <u>8-25-12</u>	SEC. <u>19</u>	TWP. <u>12</u>	RANGE <u>27</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 AM</u>	JOB FINISH <u>6:00 PM</u>
BASE <u>Smith</u>		WELL # <u>19B-1</u>		LOCATION <u>Oakley 75 AE 16.5</u>		COUNTY <u>Rawl</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)						<u>1-03</u>	<u>8.05 all</u>

CONTRACTOR Murphy 14
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE _____ DEPTH _____
 LUDING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2420'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 WEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER same
 CEMENT
 AMOUNT ORDERED 220 sks 4 1/2" 49gr
4 Flo-seal
 COMMON 172 sks @ 16.25 = 2775.00
 POZMIX 88 sks @ 8.50 = 748.00
 OBL 8 sks @ 26.25 = 210.00
 CHLORIDE _____
 ASC _____

EQUIPMENT
 PUMP TRUCK _____
 1422 _____
 BULK TRUCK _____
 1347 _____
 BULK TRUCK _____
 1 _____
 DRIVER _____

Flo-seal 50 2 sks @ 2.20 = 110.00
108.45
 HANDLING 22.25 @ 2.10 = 467.25
 MILBAG 2.25 @ 2.10 = 472.50
 TOTAL 3949.04

REMARKS:
25 sks @ 2420'
100 sks @ 1560'
40 sks @ 2.25'
40 sks @ 40'
15 sks misc. hole
20 sks Rathole

Thank you

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

SERVICE
 DEPTH OF JOB 2420'
 PUMP TRUCK CHARGE 1250.00
 EXTRA FOOTAGE _____
 MILBAG 11 miles @ 2.00 = 22.00
 MANIFOLD _____
 Light vehicle @ 4.00 = 44.00

TOTAL 1321.00

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.

PLUG & FLOAT EQUIPMENT
8 5/8
1 Dry hole plug @ 92.00

TOTAL 92.00

PRINTED NAME Coreo Livruch
 SIGNATURE [Signature]

SALES TAX (if Any) 435.64 @ 2.3 = 1001.87
 TOTAL CHARGES 5508.44
 DISCOUNT 35 @ 18.75 = 656.25
1891.21
 IF PAID IN 30 DAYS

[Handwritten mark]

ALLIED OIL & GAS SERVICES, LLC 056670

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT

Oakley

DATE <u>8-15-12</u>	SEC. <u>19</u>	TWP. <u>12</u>	RANGE <u>A1</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30</u>	JOB FINISH <u>11:00</u>
LEASE <u>Smith</u>	WELL # <u>19B-1</u>	LOCATION <u>Oakley 75 - E 1/2 S</u>		COUNTY <u>Cove.</u>	STATE <u>Ks.</u>		
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Murfin #14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 227'

CASING SIZE 8 3/8 DEPTH 227'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOBJOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.56

OWNER Same

CEMENT AMOUNT ORDERED 175 SKS Cement
Cem 3 3/8 CC 2 3/8 Gel

COMMON <u>175 SKS</u>	#16.35	#2848.75
POZMIX		
GEL <u>3 SKS</u>	#21.75	#65.25
CHLORIDE <u>6 SKS</u>	#58.00	#348.00
ASC		

EQUIPMENT

PUMP TRUCK CEMENTOR Darren Beattie 1

424-281 HELPER Tyler Ellipse 2

BULK TRUCK DRIVER Brandon Wilkison 3

404

BULK TRUCK DRIVER

HANDLING 189.23

MILBAG 8.64 x 11 x

TOTAL 3871.42

REMARKS:

mix 175 SKS Cement

Displace with water

Cement Did Circulate

SERVICE

DEPTH OF JOB 227'

PUMP TRUCK CHARGE 7165.00

EXTRA FOOTAGE

MILBAG 11

MANIFOLD Swadge

LV Millage

TOTAL 1446.00

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

TOTAL

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cement 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 Craig Clark

SIGNATURE Craig Clark

SALTS TAX (If Any) 262.16

TOTAL CHARGES 5,323.42

DISCOUNT 20 1064.68 IF PAID IN 30 DAYS

Handwritten mark

Adam Eldani Geo-Log/Report
WellSight Systems

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

Well Name: #1 Smith 19D
Location: SEC 19- twp 12S- rge 31W GOVE COUNTY
License Number: API 15-063-22035
Spud Date: 08/14/2012
Surface Coordinates: 2085' FNL 365' FWL
Region: KANSAS
Drilling Completed: 8/24/2012

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

Ground Elevation (ft): 2900
Logged Interval (ft): 3600 To: 4674
Formation: Mississippian
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2910
Total Depth (ft): 4670

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

OPERATOR

Company: Ritchie Exploration Inc. (drilled by MURFIN #14)
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:

E-LOG:

ANHY: 2410 +500
B/ANHY: 2430 +480
HEEBNER: 3917-1007
LANSING: 3964-1054
MUNCIE: 4109-1216
STARK: 4188-1278
ALTAMONT: 4294-1382
PAWNEE: 4370--1364
CHEROKEE: 4454-1544
MISS: 4544-1634

SAMPLE TOPS:

ANHY: 2413 +497
B/ANHY: 2436 +474
HEEBNER: 3918-1008
LANSING: 3968-1058
MUNCIE: 4110-1200
STARK: 4188-1278
ALTAMONT: 4288-1378
PAWNEE: 4374-1464
CHEROKEE: 4456-1546
MISS: 4548-1638

DAILY MORNING DRILLING REPORT

7/15 SPUD'
7/16 1120'
7/17 2950'
7/18 3694'
7/19 3896'
7/20 4018'
7/21 4177'
7/22 4245'
8/23 4512'
8/24 4578'

Misc. Info.

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

RIG: MURFIN CO. #14
DRILLPIPE: 4-1/2" XH

TOOLPUSHER: GREG UNRUH
MUD: MUDCO (REID ATKINS)
GAS DETECTOR: NONE
DRILL STEM TESTS: TRILOBITE TESTING
LOGS: SUPERIOR

OFFICE: PETER FIORINI
FIELD: N/A

Comments

SURFACE Casing: 8 5/8" @ 224'

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

STRUCTURALLY, THIS WELL RAN HIGHER TO OFFSET, ALL SHOWS WERE TESTED.

After evaluation of electrical logs and drill stem test results, the operator's determined #1 SMITH 19D to non-commercial and elected to plug and abandon the well as a dry hole.






























































SAMPLES WILL BE DEPOSITED WITH KANSAS GEOLOGICAL SURVEY.

RESPECTFULLY SUBMITTED
Adam M. A. Eldani
























ROCK TYPES

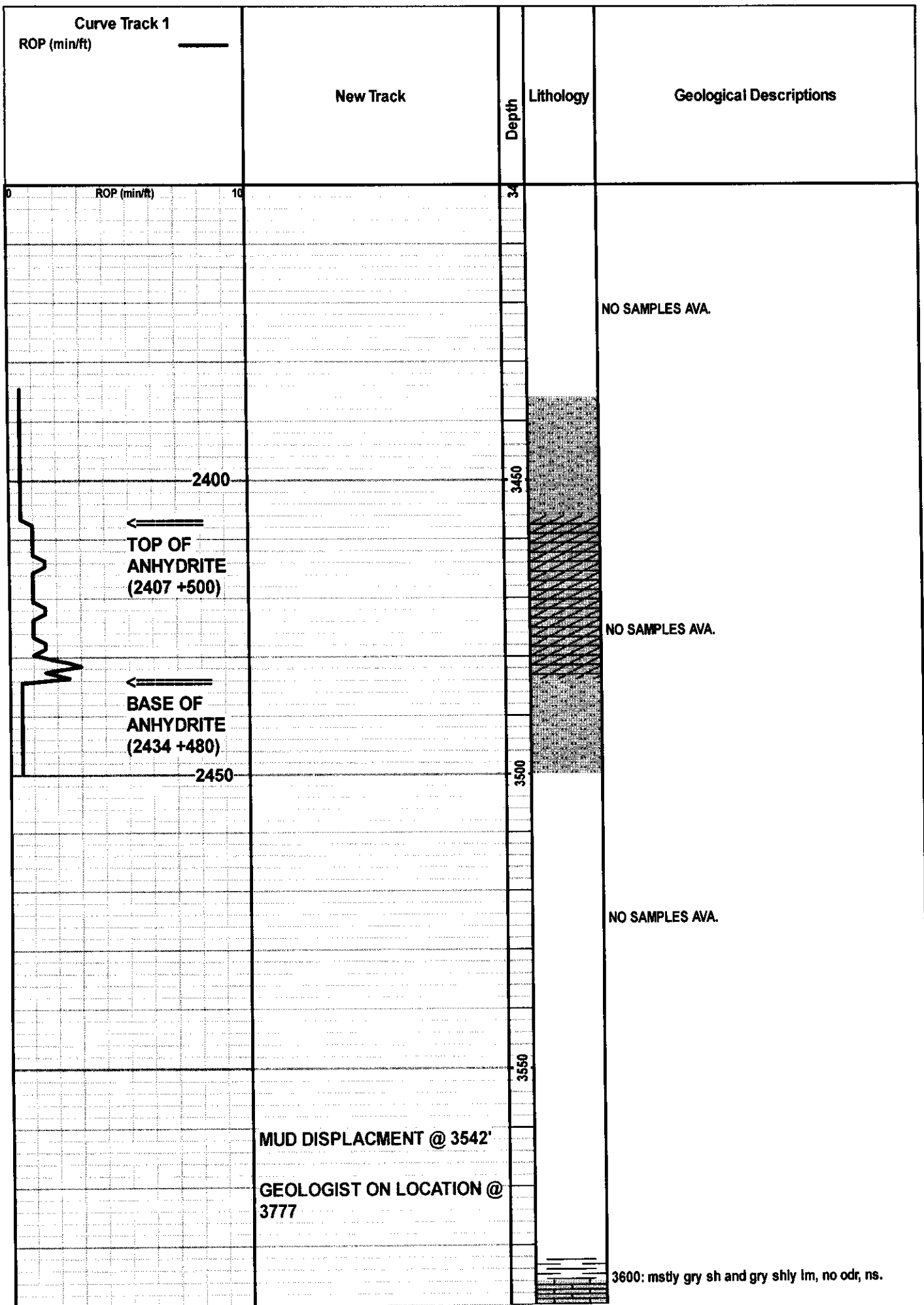
 Anhy	 Clyst	 Gyp	 Mrst	 Shgy
 Bent	 Coal	 Igne	 Salt	 Sltst
 Brec	 Congl	 Lmst	 Shale	 Ss
 Cht	 Dol	 Meta	 Shcol	 Till

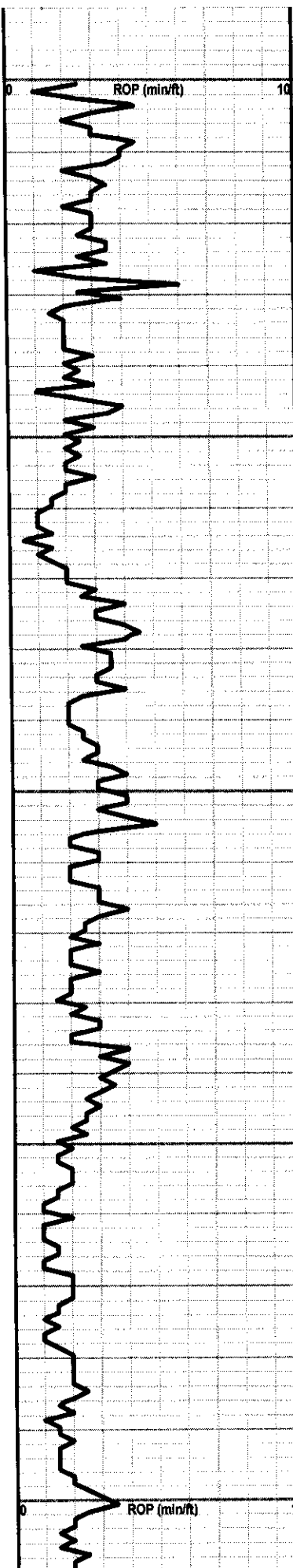
ACCESSORIES

MINERAL	 Gyp	FOSSIL	 Ostra
 Anhy	 Hvymin	 Algae	 Pelec
 Arggrn	 Kaol	 Amph	 Pellet
 Arg	 Marl	 Belm	 Pisolite
 Bent	 Minxl	 Bioclst	 Plant
 Bit	 Nodule	 Brach	 Strom
 Brecfrag	 Phos	 Bryozoa	
 Calc	 Pyr	 Cephal	TEXTURE
 Carb	 Salt	 Coral	 Boundst
 Chtdk	 Sandy	 Crin	 Chalky
 Chtlt	 Silt	 Echin	 Cryxln
 Dol	 Sil	 Fish	 Earthy
 Feldspar	 Sulphur	 Foram	 Finexln
 Ferrpel	 Tuff	 Fossil	 Grainst
 Ferr		 Gastro	 Lithogr
 Glau		 Oolite	 Microxln
			 Mudst
			 Packst
			 Wackest

OTHER SYMBOLS

POROSITY	 Vuggy	ROUNDING	 Spotted
 Earthy		 Rounded	 Ques
 Fenest	SORTING	 Subrnd	 Dead
 Fracture	 Well	 Subang	
 Inter	 Moderate	 Angular	INTERVAL
 Moldic	 Poor		 Core
 Organic		OIL SHOW	 Dst
 Pinpoint		 Even	
			EVENT
			 Rft
			 Sidewall





**DEVIATION SURVEY ONE
DEGREE. STRAIT HOLE.**

8/17/2012
mud info.
wt: 8.9
Funnel Vis. 55
Filtrate API 7.6
Chloride 1,500
LCM 2

**PUMP PRESSURE:
950+**

**PUMP PRESSURE:
950+**



3610: lght brwn pack strn lm, fair por, no odr, ns.

3620: lght crm ool lm, poor-fair por, no odr, ns.

3630: drk crm wacke strn lm, poor por, no odr, ns.

3640: incrs in red sh.

3650: lght crm inxln lm, fn xln lm, poor por, no odr, ns.

3660: gry inxln lm, inxln por, no odr, ns

3670: incrs in brwn and grysh brwn slit strn.

3680: lots of brwn and gry slit strn, incrs in crm chlky lm.

3690: crm wacke strn lm, poor-fair por, no odr, ns.

3700: peach colrd sample, incrs in red sh, incrs in wht chlk.

3710: drty crm inxln lm, cors xln in prt, no odr, ns.

3720: lm aa, incrs in crm chlky lm.

3730: crm-drk tan inxln lm, inxln por, lght brwn mott lm, no odr, ns.

3740: incrs in wht chlk.

3750: crm-drk tan mud strn lm, poor-fair por, no odr, ns.

3760: aa, incrs in wht chlk.

3770: incrs in wht chlk, incrs in tan grain strn, no odr, ns.

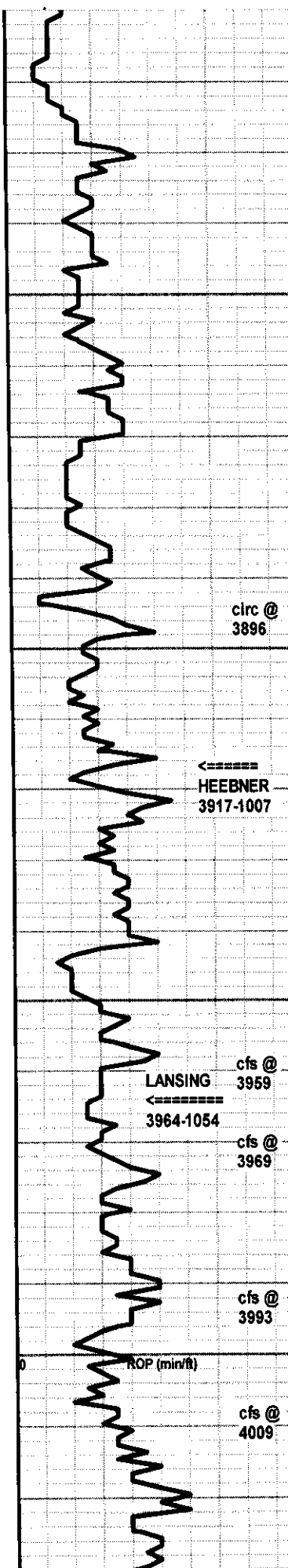
3780: aa, no sig change.

3790: more tha 90% of sample try, wht chlk.

3800: aa, incrs in pyrt.

3810: drk crm fn xln lm, poor por, no odr, ns.

3820: shw of blk carb sh.



DST #1 3799-3896
30-45-45-60
REC: 442' MUD, 180' MCW.
IFP: 54-217# ISIP: 1232#
FFP: 227-344# FSIP: 1221#

8/19/2012
 mud info.
 wt: 9.0
 Funnel Vis. 53
 Filtrate API 7.2
 Chloride 1,500
 LCM 3

PUMP PRESSURE:
950+

circ @
 3896

30MIN: drk crm pack stn lm, intr prtcl por, good por, no odr, ns. 60MIN: aa, incrs in tan grain stn, med grn, poor-fair por, no odr, ns.

HEEBNER
 3917-1007

DST #2 3915-3969
30-45-30-60
REC: 384' SWCM, 1682' SW.
Chlorides: 70,000
IFP: 218-775# ISIP: 1254#
FFP: 789-1030# FSIP: 1262#

30MIN: incrs in crmy/milky chrt, mstly chiky lm, no odr, ns. 60MIN: mstly chiky lm, gry-tan micrtic lm, prtly xln, frac por, no odr, ns.

LANSING
 cfs @
 3959
 3964-1054

cfs @
 3969

30MIN: incrs in red sh, tan-gry fn xln lm, no vis por, few tan grain stn lm, high por, no odr, ns. 60MIN: mstly tan xln lm, v. foss (crinod), poor por, no odr, ns.

cfs @
 3993

30MIN: crm micrtic lm, v. fn grn, no odr, ns. 60MIN: crm inxln lm, cemnt flooded, no vis por, no odr, ns.

cfs @
 4009

30MIN: crm fn xln lm, no vis. por, grysh-brwn v. foss lm, prtly ool, cemnt flooded, no odr, ns. 60MIN: aa, no sig change from 30min smpl, no odr, ns.

DST #3 4027-4057
30-30-30-30
REC: 2' MUD.
IFP: 13-15# ISIP: 29#



3830: mstly gry sltn stn and gry sh.

3840: peachy sample, mstly red sh, few tan inxln lm, no vis por, no odr, ns.

3850: drk crm grain stn lm, intr prtcl por, fair-poor shw of lght brwn oil, no odr.

3860: lght gry grain stn lm, intr prtcl por, w/ a shw of drk blk oil, faint-no odr.

3870: aa, w/ a shw of blk oil, faint-no odr.

3880: brwn inxln lm, poor-no por, no odr, ns.

3890: incrs in tan chrt, incrs in buff dolo lm, fair-strng por, no odr, ns.

3900: aa, incrs in brwn prtly xln/ prtly ool, poor-fair por, no odr, ns

3910: lght gry micrtic lm, poor-fair por, no odr, ns.

3920: aa, incrs in wht chlk, few chps of lght gry inxln lm, clac flooded, poor por, no odr, ns.

3930: shw of blk carb sh.

3940: mstly gry sh and fn gry slt stn.

3950: peachy brwn colrd sample, mstly maroonsh sh.

3960: mstly wht chlk, few chps of lght crm ool lm, intr prtcl por, shw of drk brwn oil, faint-no odr.

3970: crm-tan inxln lm, cemnt flooded, no odr, ns.

3980: incrs in gry and brwn sh.

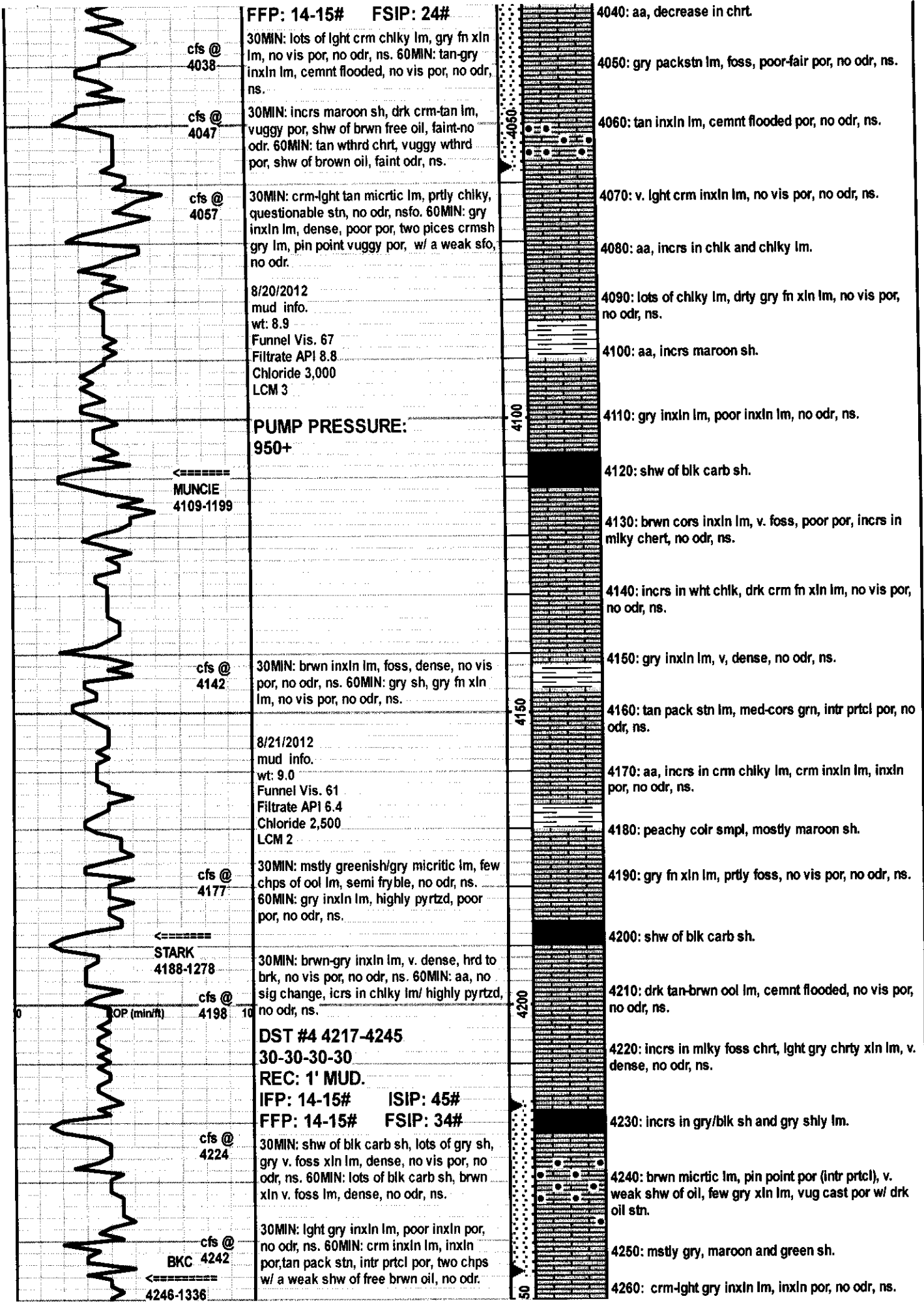
3990: mstly lght-crm-crm fn xln lm, cemnt floded, lots of wht chlk and chiky lm, no odr, ns.

4000: incrs in maroonsh sh, mostly lght crm micrtic lm, v. fn grn, lght crm inxln lm, cemnt flooded, no odr, ns.

4010: aa, greater incrs in maroon sh.

4020: gey inxln lm, cemnt flooded, poor-no por, no odr, ns.

4030: incrs in orgne/tanish chrt, crm fn xln lm, no vis por, no odr, ns.



FFP: 14-15# FSIP: 24#

cfs @ 4038 30MIN: lots of lght crm chky lm, gry fn xln lm, no vis por, no odr, ns. 60MIN: tan-gry inxln lm, cemnt flooded, no vis por, no odr, ns.

cfs @ 4047 30MIN: incrs maroon sh, drk crm-tan lm, vuggy por, shw of brwn free oil, faint-no odr. 60MIN: tan wthrd chrt, vuggy wthrd por, shw of brown oil, faint odr, ns.

cfs @ 4057 30MIN: crm-lght tan micrtic lm, prtly chky, questionable stn, no odr, nsfo. 60MIN: gry inxln lm, dense, poor por, two pices crmsh gry lm, pin point vuggy por, w/ a weak sfo, no odr.

8/20/2012 mud info. wt: 8.9 Funnel Vis. 67 Filtrate API 8.8 Chloride 3,000 LCM 3

PUMP PRESSURE:
950+

←-----
MUNCIE
4109-1199

cfs @ 4142 30MIN: brwn inxln lm, foss, dense, no vis por, no odr, ns. 60MIN: gry sh, gry fn xln lm, no vis por, no odr, ns.

8/21/2012 mud info. wt: 9.0 Funnel Vis. 61 Filtrate API 6.4 Chloride 2,500 LCM 2

cfs @ 4177 30MIN: mstly greenish/gry micrtic lm, few chps of ool lm, semi fryble, no odr, ns. 60MIN: gry inxln lm, highly pyrtzd, poor por, no odr, ns.

←-----
STARK
4188-1278

cfs @ 4198 30MIN: brwn-gry inxln lm, v. dense, hrd to brk, no vis por, no odr, ns. 60MIN: aa, no sig change, icrs in chky lm/ highly pyrtzd, no odr, ns.

DST #4 4217-4245
30-30-30-30
REC: 1' MUD.

IFP: 14-15# ISIP: 45#
FFP: 14-15# FSIP: 34#

cfs @ 4224 30MIN: shw of blk carb sh, lots of gry sh, gry v. foss xln lm, dense, no vis por, no odr, ns. 60MIN: lots of blk carb sh, brwn xln v. foss lm, dense, no odr, ns.

cfs @ 4242 30MIN: lght gry inxln lm, poor inxln por, no odr, ns. 60MIN: crm inxln lm, inxln por, tan pack stn, intr prtcl por, two chps w/ a weak shw of free brwn oil, no odr.

4040: aa, decrease in chrt.

4050: gry packstn lm, foss, poor-fair por, no odr, ns.

4060: tan inxln lm, cemnt flooded por, no odr, ns.

4070: v. lght crm inxln lm, no vis por, no odr, ns.

4080: aa, incrs in chlk and chky lm.

4090: lots of chky lm, drty gry fn xln lm, no vis por, no odr, ns.

4100: aa, incrs maroon sh.

4110: gry inxln lm, poor inxln lm, no odr, ns.

4120: shw of blk carb sh.

4130: brwn cors inxln lm, v. foss, poor por, incrs in mlky chert, no odr, ns.

4140: incrs in wht chlk, drk crm fn xln lm, no vis por, no odr, ns.

4150: gry inxln lm, v. dense, no odr, ns.

4160: tan pack stn lm, med-cors grn, intr prtcl por, no odr, ns.

4170: aa, incrs in crm chky lm, crm inxln lm, inxln por, no odr, ns.

4180: peachy colr smpl, mostly maroon sh.

4190: gry fn xln lm, prtly foss, no vis por, no odr, ns.

4200: shw of blk carb sh.

4210: drk tan-brwn ool lm, cemnt flooded, no vis por, no odr, ns.

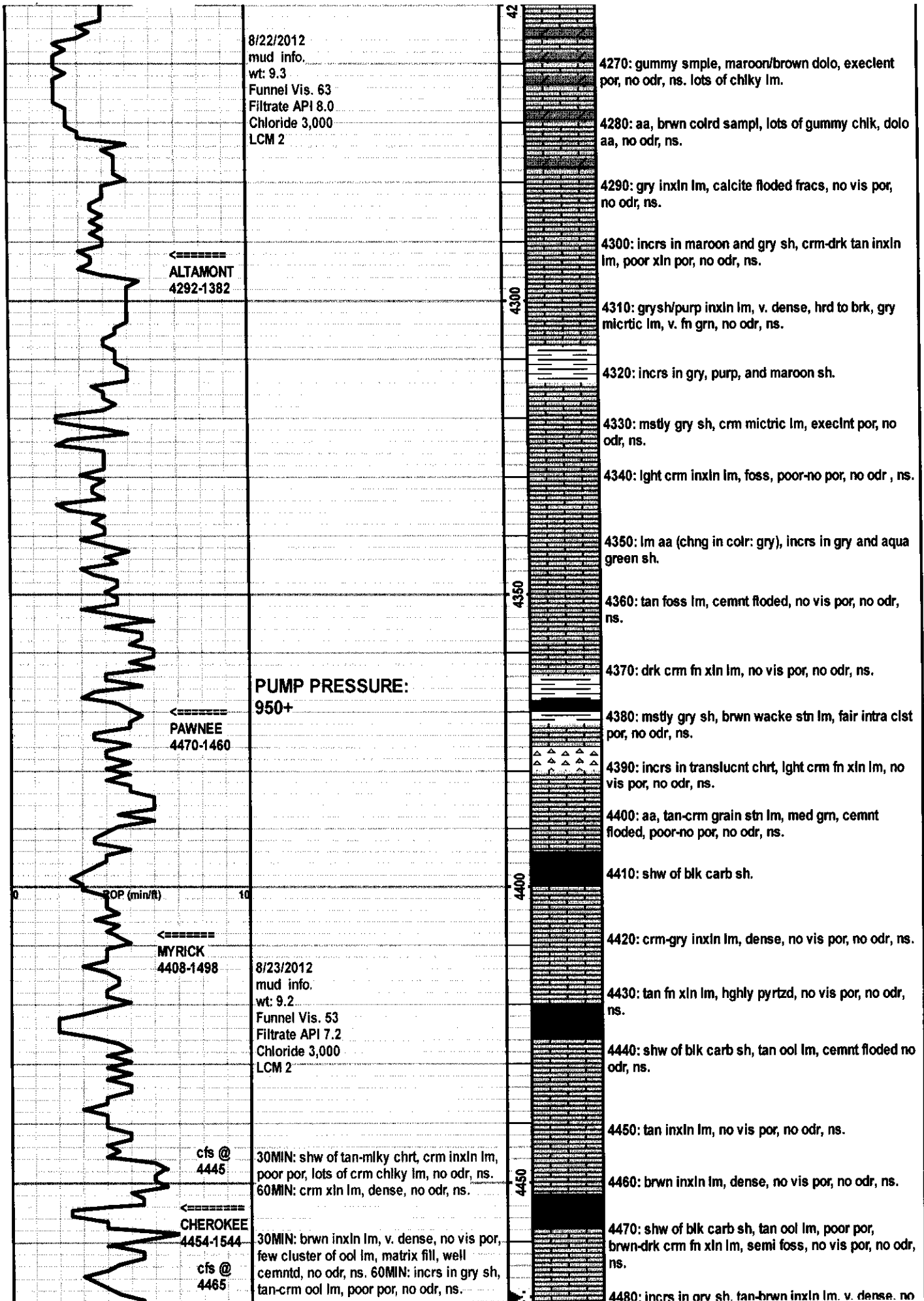
4220: incrs in mlky foss chrt, lght gry chrtly xln lm, v. dense, no odr, ns.

4230: incrs in gry/blk sh and gry shly lm.

4240: brwn micrtic lm, pin point por (intr prtcl), v. weak shw of oil, few gry xln lm, vug cast por w/ drk oil stn.

4250: mstly gry, maroon and green sh.

4260: crm-lght gry inxln lm, inxln por, no odr, ns.



8/22/2012
mud info.
wt: 9.3
Funnel Vis. 63
Filtrate API 8.0
Chloride 3,000
LCM 2

←-----
ALTAMONT
4292-1382

PUMP PRESSURE:
950+

←-----
PAWNEE
4470-1460

←-----
MYRICK
4408-1498

8/23/2012
mud info.
wt: 9.2
Funnel Vis. 53
Filtrate API 7.2
Chloride 3,000
LCM 2

cfs @
4445

30MIN: shw of tan-milky chrt, crm inxln lm, poor por, lots of crm chky lm, no odr, ns.
60MIN: crm xln lm, dense, no odr, ns.

←-----
CHEROKEE
4454-1544

cfs @
4465

30MIN: brwn inxln lm, v. dense, no vis por, few cluster of ool lm, matrix fill, well cemntd, no odr, ns. 60MIN: incrs in gry sh, tan-crm ool lm, poor por, no odr, ns.

4270: gummy smple, maroon/brown dolo, execlnt por, no odr, ns. lots of chky lm.

4280: aa, brwn coldr sampl, lots of gummy chlk, dolo aa, no odr, ns.

4290: gry inxln lm, calcite floded fracs, no vis por, no odr, ns.

4300: incrs in maroon and gry sh, crm-drk tan inxln lm, poor xln por, no odr, ns.

4310: grysh/purp inxln lm, v. dense, hrd to brk, gry micrtic lm, v. fn grn, no odr, ns.

4320: incrs in gry, purp, and maroon sh.

4330: mstly gry sh, crm micrtic lm, execlnt por, no odr, ns.

4340: lght crm inxln lm, foss, poor-no por, no odr, ns.

4350: lm aa (chng in colr: gry), incrs in gry and aqua green sh.

4360: tan foss lm, cemnt floded, no vis por, no odr, ns.

4370: drk crm fn xln lm, no vis por, no odr, ns.

4380: mstly gry sh, brwn wacke strn lm, fair intra clst por, no odr, ns.

4390: incrs in translucnt chrt, lght crm fn xln lm, no vis por, no odr, ns.

4400: aa, tan-crm grain strn lm, med gm, cemnt floded, poor-no por, no odr, ns.

4410: shw of blk carb sh.

4420: crm-gry inxln lm, dense, no vis por, no odr, ns.

4430: tan fn xln lm, hghly pyrtzd, no vis por, no odr, ns.

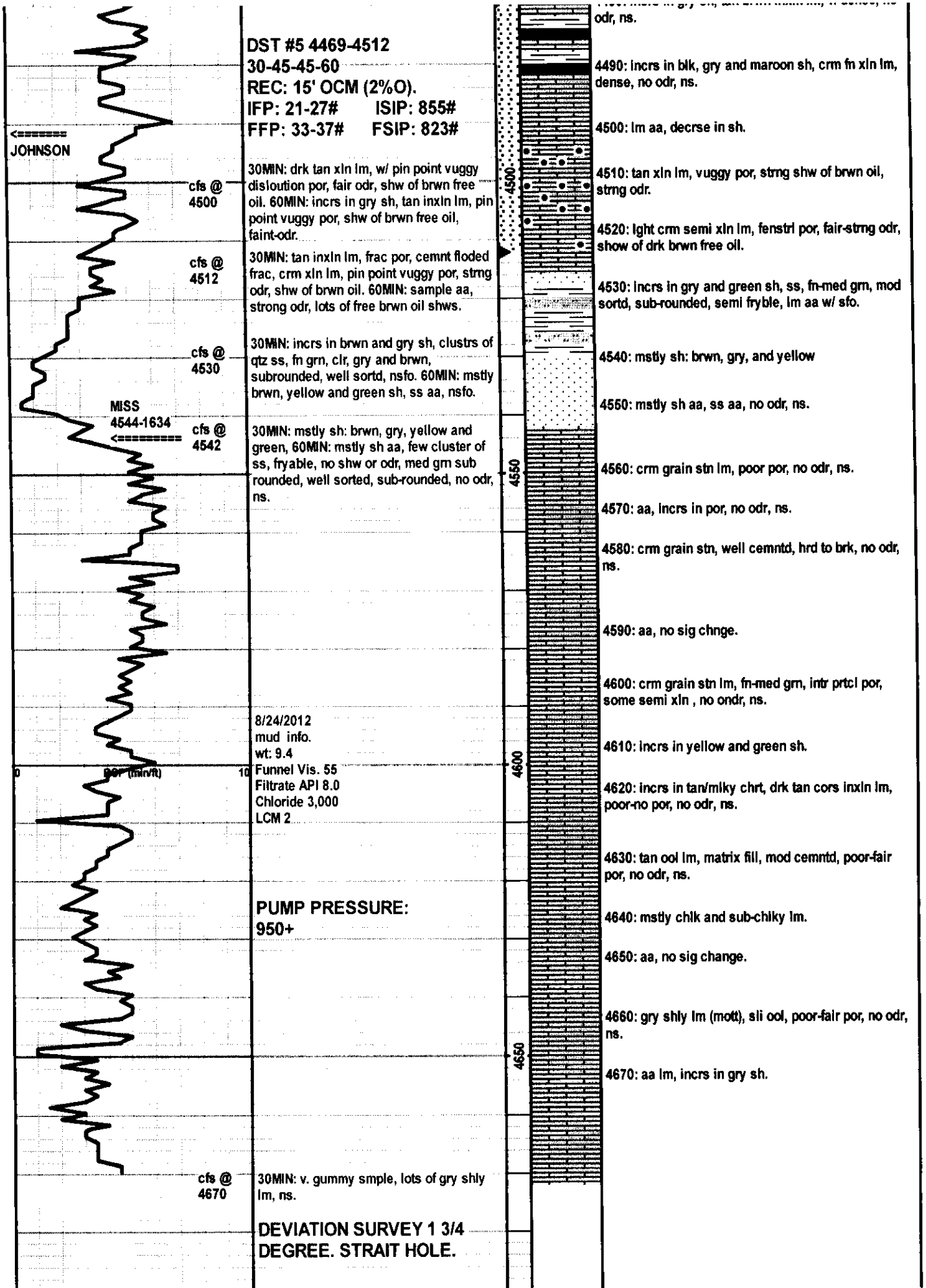
4440: shw of blk carb sh, tan ool lm, cemnt floded no odr, ns.

4450: tan inxln lm, no vis por, no odr, ns.

4460: brwn inxln lm, dense, no vis por, no odr, ns.

4470: shw of blk carb sh, tan ool lm, poor por, brwn-drk crm fn xln lm, semi foss, no vis por, no odr, ns.

4480: incrs in arv sh. tan-brwn inxln lm. v. dense. no



DST #5 4469-4512
 30-45-45-60
 REC: 15' OCM (2%O).
 IFP: 21-27# ISIP: 855#
 FFP: 33-37# FSIP: 823#

odr, ns.
 4490: incrs in blk, gry and maroon sh, crm fn xln lm, dense, no odr, ns.
 4500: lm aa, decrse in sh.
 4510: tan xln lm, vuggy por, strng shw of brwn oil, strng odr.
 4520: lght crm semi xln lm, fenstrl por, fair-strng odr, show of drk brwn free oil.
 4530: incrs in gry and green sh, ss, fn-med gm, mod sortd, sub-rounded, semi fryble, lm aa w/ sfo.
 4540: mstly sh: brwn, gry, and yellow
 4550: mstly sh aa, ss aa, no odr, ns.
 4560: crm grain stn lm, poor por, no odr, ns.
 4570: aa, incrs in por, no odr, ns.
 4580: crm grain stn, well cemntd, hrd to brk, no odr, ns.
 4590: aa, no sig chnge.
 4600: crm grain stn lm, fn-med gm, intr prtcl por, some semi xln, no odr, ns.
 4610: incrs in yellow and green sh.
 4620: incrs in tan/mlky chrt, drk tan cors inxln lm, poor-no por, no odr, ns.
 4630: tan ool lm, matrix fill, mod cemntd, poor-fair por, no odr, ns.
 4640: mstly chlk and sub-chlky lm.
 4650: aa, no sig change.
 4660: gry shly lm (mott), sli ool, poor-fair por, no odr, ns.
 4670: aa lm, incrs in gry sh.

30MIN: drk tan xln lm, w/ pin point vuggy disloution por, fair odr, shw of brwn free oil. 60MIN: incrs in gry sh, tan inxln lm, pin point vuggy por, shw of brwn free oil, faint-odr.

30MIN: tan inxln lm, frac por, cemnt floded frac, crm xln lm, pin point vuggy por, strng odr, shw of brwn oil. 60MIN: sample aa, strong odr, lots of free brwn oil shws.

30MIN: incrs in brwn and gry sh, clustrs of qtz ss, fn gm, clr, gry and brwn, subrounded, well sortd, nsfo. 60MIN: mstly brwn, yellow and green sh, ss aa, nsfo.

30MIN: mstly sh: brwn, gry, yellow and green, 60MIN: mstly sh aa, few cluster of ss, fryable, no shw or odr, med gm sub rounded, well sorted, sub-rounded, no odr, ns.

8/24/2012
 mud info.
 wt: 9.4
 Funnel Vis. 55
 Filtrate API 8.0
 Chloride 3,000
 LCM 2

PUMP PRESSURE:
 950+

30MIN: v. gummy smple, lots of gry shly lm, ns.

DEVIATION SURVEY 1 3/4
 DEGREE. STRAIT HOLE.

JOHNSON

MISS
 4544-1634

cfs @
 4500

cfs @
 4512

cfs @
 4530

cfs @
 4542

cfs @
 4670

por (min/vt)

		50		
		4700		

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 14, 2012

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO1
API 15-063-22035-00-00
Smith 19B 1
NW/4 Sec.19-12S-31W
Gove 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,
John Niernberger

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

December 17, 2012

John Niernberger
Ritchie Exploration, Inc.
8100 E 22ND ST N # 700
BOX 783188
WICHITA, KS 67278-3188

Re: ACO-1
API 15-063-22035-00-00
Smith 19B 1
NW/4 Sec.19-12S-31W
Gove County, Kansas

Dear John Niernberger:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 08/15/2012 and the ACO-1 was received on December 14, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department