



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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1151165

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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:  Yes  No

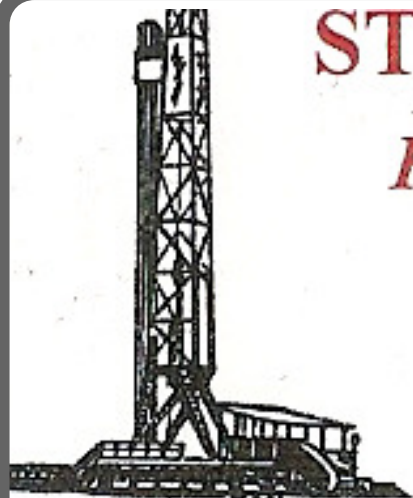
Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*



Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69

Otis, Kansas 67565

geomurphy@gbta.net

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

Well Name: Knopp #5

Location: Logan County

License Number: API # 15-109-21165-00-00

Spud Date: 3/22/13

Surface Coordinates: 1645' FNL & 330' FWL (N2 NW SW NW )  
Section 13-T14S-R32W

Bottom Hole Coordinates: Vertical well w/minimal deviation

Ground Elevation (ft): 2802'

K.B. Elevation (ft): 2807'

Logged Interval (ft): 3500'

To: TD

Total Depth (ft): RTD - 4600

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical (Mudco, Inc)

Region: Kansas  
Drilling Completed: 4/4/13

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

## OPERATOR

Company: Pioneer Resources

Address: 80 Windmill Drive  
Phillipsburg, KS 67661-9622

## GEOLOGIST

Name: Steven P. Murphy, PG (Ks License #339)

Company: Consulting Petroleum Geologist

Address: 3365 CR 390  
Otis, KS 67565

### LogTops (Datum)

The open-hole logging was performed by Jeff Luebbers with Superior Well Services (Hays, KS shop). Logs included Compensated Neutron/Compensated Density, Dual Induction & Microlog.

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

Anhydrite Top - 2230 (+577)  
Anhydrite Base - 2288 (+519)  
Heebner - 3787 (-980)  
Toronto - 3806 (-999)  
Lansing - 3823 (-1016)  
Muncie Creek Sh - 3980 (-1173)  
Stark Sh - 4069 (-1262)  
Hushpuckney Sh - 4103 (-1296)  
Base KC - 4141 (-1334)  
Pawnee 4276 (-1469)  
Myrick Station - 4316 (-1509)  
Ft. Scott - 4335 (-1528)  
Cherokee Sh - 4361 (-1554)  
Johnson Zone - 4402 (-1595)  
Morrow Sh - 4440 (-1633)  
Basal Penn Sandstone - 4452 (-1645)  
Mississippian - 4464 (-1657)

## DRILL STEM TESTS #1-4

Drillstem testing was performed by Trilobite Testing (Scott City shop). The following are the results of DSTs:

### DST #1 3848-3874 (LKC "B")

30:30:45:45

IF: Wk blow built to 1/2", no return

FF: NB, no return

Recovery: 10' Mud w/oil spots

IHP: 1838 FHP: 1830

IFP: 12-15 ISIP: 691

FFP: 18-16 FSIP: 820

BHT - 102 F

### DST #2 3976-4014 (LKC "H")

30:30:30:30

IF: 1/4" blow, no return

FF: NB, no return

Recovery: 5' Mud w/oil spots

IHP: 1943 FHP: 1939

IFP: 17-18 ISIP: 371

FFP: 18-19 FSIP: 275

BHT - 108 F

### DST #3 4028-5054 (LKC "I, J")

15:15:15:15

IF: Died in 7 min, no return

FF: No blow, no return

Recovery: 2' Mud

IHP: 1970 FHP: 1906

IFP: 14-14 ISIP: 25

FHP: 14-15 FSIP: 21

BHT - 105 F

### DST #4 4076-4104 (LKC "K")

30:45:30:60

IF: BOB 6 min, 1-3/4" return

FF: BOB 9 min, 3-1/2" return

Recovery: 540' GIP, 80' Gsy O (10%G, 90%O),

60' GWMCO (10%G, 60%O, 5%W, 25%M),

60' GOMCW (10%G, 10%O, 50%W, 30%M),

60' GOMCW (5%G, 5%O, 85%W, 5%M)

IHP: 2019 FHP: 1992

IFP: 39-89 ISIP: 928

FFP: 97-126 FSIP: 928

Grav. - 32

Chlorides - 77,000 ppm

BHT - 118 F

## DRILL STEM TESTS #5-8

### DST #5 4266-4280 (Pawnee)

30:30:30:30

IFP: 1/4" blow, no return

FFP: NB, no return

Recovery: 5' Mud

IHP: 2115 FHP: 2085

IFP: 12-18 ISIP: 1124

FFP: 19-23 FSIP: 1093

BHT - 112 F

### DST #6 4298-4324 (Myrick Station)

30:45:30:60

IF: BOB in 12 min, 1/2" return

FF: BOB in 4 min, 2-1/2" return

Recovery: 780' GIP, 60' GMCO (30%G,

40%O, 30%M), 60' GOCM (10%G, 35%O,

55%M), 30' GOCM (10%G, 20%O, 70%M)

IHP: 2138 FHP: 2103

IFP: 18-54 ISIP: 365

FFP: 41-64 FSIP: 370

BHT - 116 F

### DST #7 4326-4378 (Ft. Scott-Cherokee LS)

30:45:30:60

IF: 9" blow, no return

FF: 6-1/2" blow, no return

Recovery: 70' WM w/oil spots (20%W, 80%M),

60' WM (30%W, 70%M), 120' WM (45%W, 55%M)

IHP: 2193 FHP: 2152

IFP: 18-97 ISIP: 1015

FFP: 102-135 FSIP: 994

BHT - 118 F

Chlorides - 59,000 ppm

### DST #8 4400-4436 (Johnson Zone)

30:45:30:60

IF: BOB 29-1/2 min, no return

FF: 9-3/4" blow, no return

Recovery: 30' Cl Oil, 60' MCO (30%M, 70%O),

60' GOCM (10%G, 30%O, 60%M)

IHP: 2188 FHP: 2126

IFP: 18-49 ISIP: 995

FFP: 53-63 FSIP: 1009

BHT - 119 F

Gravity - 25

## COMMENTS


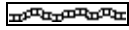
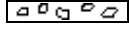

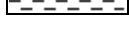
Based on the results of DSTs, as well as sample & log analysis, it was recommended that casing be run to produce the Morrow Sandstone, Johnson Zone, Myrick Station and the LKC "K" zone.






Respectfully submitted,



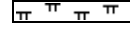

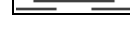
Steven P. Murphy, PG (KS License #228)

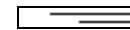
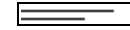


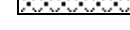
Consulting Petroleum Geologist

### ROCK TYPES




-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst

-  Coal
-  Congl
-  Dol
-  Gyp
-  Igne

-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale

-  Shcol
-  Shgy
-  Sltst
-  Ss
-  Till

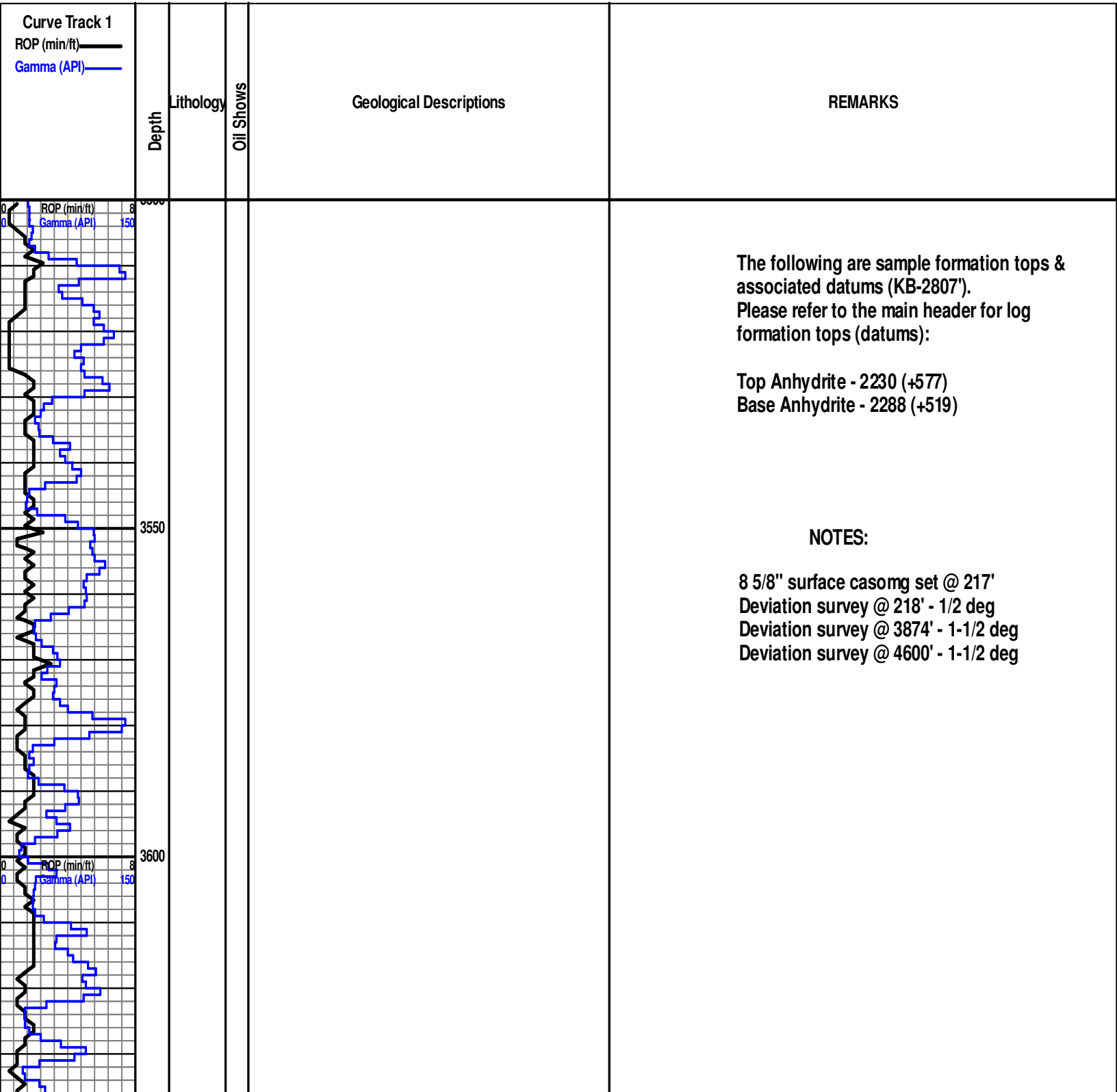
### OTHER SYMBOLS

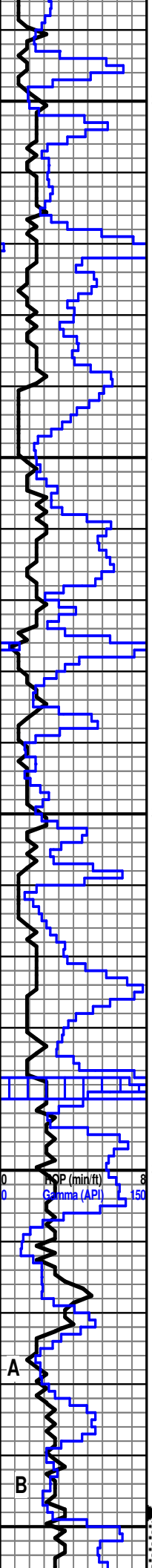
- OIL SHOW**
-  Even
  -  Spotted
  -  Ques

-  Dead
-  Gas

- INTERVAL**
-  Core
  -  Dst

- EVENT**
-  Conn
  -  Rft
  -  Sidewall





3650  
3700  
3750  
3800  
3850

Start 20' Wet & Dry Samples

SH: blk & LS: crm-tan-gry, fxl'n, foss, dense, NS

LS: crm-gry, fxl'n, foss, dense, NS

LS: crm-gry, vfxln, sl foss, dense, NS & SH: gry-grn

SH: blk-gry & LS: as above

LS: crm-tan-vfxln, sl foss, dense, NS & SH: gry-grn

LS: as above w/gry-grn-brn SH

SH: blk, carb

SH: blk-gry-grn-red

LS: crm-tan, fxl'n, sl foss, mottled, dense, chalky, NS

SH: blk-gry-grn-red

LS: crm-tan-gry, vfxln, dense, chalky, NS

○ LS: wht-tan, vfxln, dense, chalky, vsl strn 1 pc, nsfo

LS: wht-tan-gry, vfxln, dense, chalky, NVP, NS

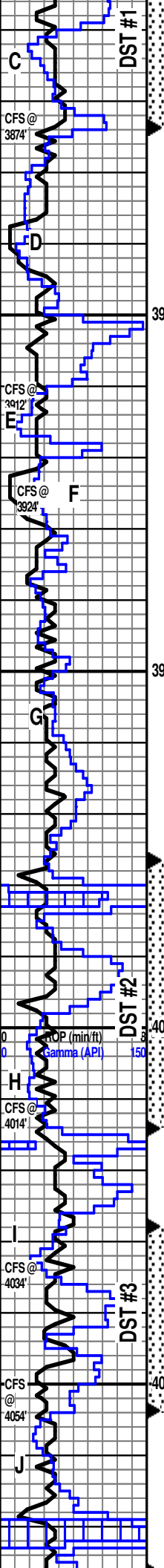
SH: blk-rust-gry-grn

HEEBNER 3783 (-976)

LANSING 3823 (-1016)

DST #1 3848-3874 (LKC "B")  
30:30:45:45  
IF: Wk blow built to 1/2", no return  
FF: NB, no return





① LS: crm-tan, fxl, oolic, fr ppt & rare vug por, ssfo (gsy on brk), spotty stn, fr odor  
 ① LS: wht-tan, fxl, oolic in pt, pr-fr ppt & inxln por, ssfo (gsy on brk), spotty stn, fr odor  
 SH: gry-grn-red-brn  
 LS: wht-gry, vfxln, dense, sl chalky, NS  
 SH: grn-gry-red  
 LS: crm-tan-gry, fxl, oolic in pt, much dense, NS  
 LS: as above w/abund grn-gry-rust shale  
 LS: tan-brn-gry, vfxln, sl chalky, NS w/minor shale as above  
 ① LS: wht-tan, fxl, oolic, fr-gd inter-ool & vug por, ssfo, v. spotty lite stn, sl odor  
 LS: crm-tan, vfxln, dense, chalky, NS  
 LS: as above  
 LS: crm-gry, vfxln, dense, chalky, NS  
 SH: blk-gry-grn-brn  
 LS: crm-brn, vfxln, dense, NS  
 ① LS: crm-tan, fxl, oolic in pt, foss, fr-gd vug por, ssfo, spotty lite stn, fr odor  
 ① LS: crm-tan-gry, fxl-vfxln, oolic in pt, pr-fr inxln & ppt por, ssfo on brk, spotty stn, sl odor  
 LS: wht-tan-gry, vfxln, dense, cherty, chalky, NS  
 LS: crm-tan-gry, vfxln, dense, NS  
 SH: gry-grn-brn-blk  
 ① LS: wht-tan, fxl, oolic, fr vug & ppt por, ssfo, spotty stn, str odor  
 ① LS: as above w/incr in por  
 LS: crm-tan-gry, vfxln, dense, NS w/abund multic shale  
 LS: crm-gry, vfxln, dense, chalky, NS (str odor)  
 SH: blk-gry-grn  
 ① LS: crm-tan-gry, vfxln, dense, minor chert, sl chalky, vssfo, rare spotty stn, fr odor

Recovery: 10' Mud w/oil spots  
 IHP: 1838 FHP: 1830  
 IFP: 12-15 ISIP: 691  
 FFP: 18-16 FSIP: 820  
 BHT - 102 F

Strap @ 3874' - 1.33' short to board

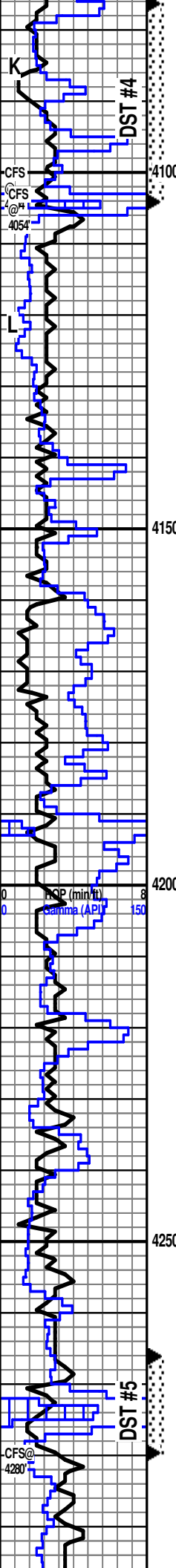
**MUNCIE CRK 3978 (-1171)**

DST #2 3976-4014 (LKC "H")  
 30:30:30:30  
 IF: 1/4" blow, no return  
 FF: NB, no return  
 Recovery: 5' Mud w/oil spots  
 IHP: 1943 FHP: 1939  
 IFP: 17-18 ISIP: 371  
 FFP: 18-19 FSIP: 275  
 BHT - 108 F

DST #3 4028-5054 (LKC "I, J")  
 15:15:15:15  
 IF: Died in 7 min, no return  
 FF: No blow, no return  
 Recovery: 2' Mud  
 IHP: 1970 FHP: 1906  
 IFP: 14-14 ISIP: 25  
 FHP: 14-15 FSIP: 21  
 BHT - 105 F

**STARK 4057 (-1250)**

DST #4 4076-4104 (LKC "K")  
 30:45:30:60  
 IF: BOB 6 min, 1-3/4" return  
 FF: BOB 9 min, 3-1/2" return  
 Recovery: 540' GIP, 80' Gsy O (10%G, 90%O),  
 60' GWMCO (10%G, 60%O, 5%W, 25%AM),  
 60' GOMCW (10%G, 10%O, 50%W, 30%AM)



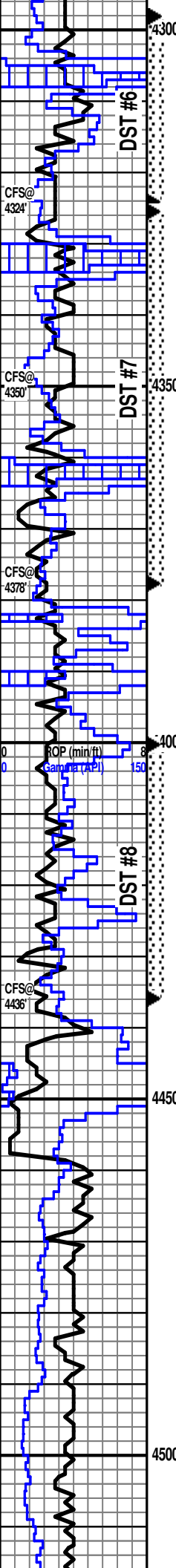
○ LS: wht-tan-gry, f-vfxln, sl oolic, mostly dense, vssfo, rare stn, str odor  
 ● LS: crm-tan, fxl, oolic, gd vug & ppt por, fsfo, spotty to even stn, v. str odor  
 ○ LS: crm-tan-brn, vfxln, sl chalky, dense, rare stn, str odor  
 SH: blk-gry  
 LS: tan-brn-gry, vfxln, dense, mottled, NS (odor)  
 LS: as above  
 LS: as above (shaley)  
 SH: gry-blk-mar  
 LS & SH: as above  
 SH: gry-red-blk  
 LS: crm-tan-gry, vfxln, dense, sl chalky, wabund red shale, NS  
 LS: as above w/abund red shale  
 SH: gry-blk-grn-red  
 LS: as above w/abund red shale  
 LS: crm-brn-gry, vfxln, oolitic in pt, dense, abund red shale  
 LS: as above  
 SH: gry-grn-red  
 ○ LS: crm-tan, oolitic/oolic, fr inter-ool por, vssfo, spotty stn, no odor  
 ● LS: as above  
 SH: blk, carb  
 ● LS: wht-tan, fxl, oolic, fr-gd ppt por, fsfo, even sat stn, str odor w/abund lt blue chert  
 LS: crm-tan-gry, vfxln, dense, w/abund lt. blue chert, NS  
 LS & CHT: as above

**HUSHPUCKNEY 4101 (-1294)**

**BKC 4140 (-1333)**

**PAWNEE 4273 (-1466)**

60' GOMCW (5%G, 5%O, 85%W, 5%M)  
 IHP: 2019 FHP: 1992  
 IFP: 39-89 ISIP: 928  
 FFP: 97-126 FSIP: 928  
 Grav. - 32  
 Chlorides - 77,000 ppm  
 BHT - 118 F  
 DST #5 4266-4280 (Pawnee)  
 30:30:30  
 IFP: 1/4" blow, no return  
 FFP: NB, no return  
 Recovery: 5' Mud  
 IHP: 2115 FHP: 2085  
 IFP: 12-18 ISIP: 1124  
 FFP: 19-23 FSIP: 1093



SH: blk

SH: blk-gry-grn-brn

● LS: crm-brn, fxl, oolitic, fr ppt & vug por, fsfo, even sat stn, str odor w/minor chert

SH: blk, carb

● LS: crm-tan-brn, fxl, oolitic/oolic in pt, mostly dense, rare fr-gd ppt & vug por, ssfo, spotty stn, fr odor

● LS: as above

SH: blk, carb

● LS: crm-tan-gry, fxl, sl foss, oolitic/oolic, fr-gd vug & ppt por, fsfo, even sat stn, str odor

● LS: as above, cherty

SH: blk, carb

LS: tan-brn, vfxln, dense, minor chert, NS

SH: blk-gry-brn-red

● LS: tan-brn-gry, fxl, pr-fr inxln por, much dense, ssfo, spotty stn, str odor

● LS: crm-brn-gry, fxl, fr ppt por, much dense, ssfo, spotty stn, str odor

● LS: as above w/gd vug & ppt por, fsfo, sat stn, str odor

● LS: as above

● SH: multic w/interbedded Sst: clr-tan, f-med gr, well-std, sub-rd, friable, gd intergran por, gsf, even sat stn, str odor

SH: multic w/lenses of sst: as above

SH: multic w/lenses of barren sst w/white cement

LS: wht-tan, vfxln, sandy, chalky, dense, NS

LS: as above

SH: blk-gry-brn

LS: wht-tan, oolitic, vfxln, chalky, minor chert, NS

LS: as above

**MYRICK STATION  
4313 (-1506)**

DST #6 4298-4324 (Myrick Station)  
 30:45:30:60  
 IF: BOB in 12 min, 1/2" return  
 FF: BOB in 4 min, 2-1/2" return  
 Recovery: 780' GIP, 60' GCMO (30%G, 40%O, 30%M), 60' GOCM (10%G, 35%O, 55%M), 30' GOCM (10%G, 20%O, 70%M)  
 IHP: 2138 FHP: 2103  
 IFP: 18-54 ISIP: 365  
 FFP: 41-64 FSIP: 370  
 BHT - 116 F

**FT SCOTT  
4330 (-1523)**

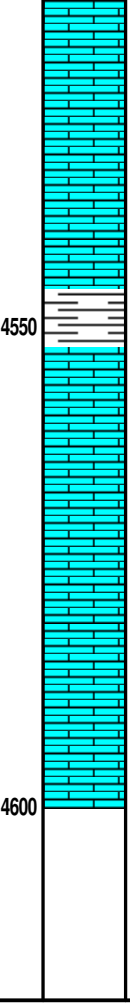
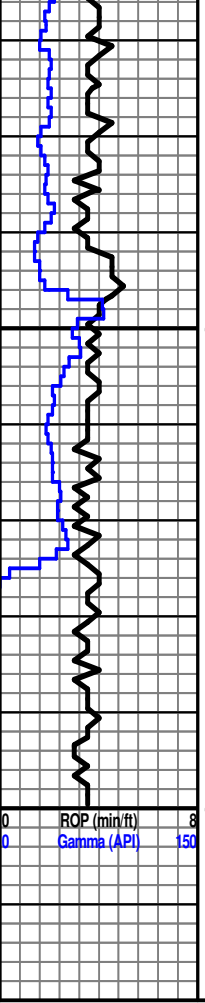
DST #7 4326-4378 (Ft. Scott-Cherokee LS)  
 30:45:30:60  
 IF: 9" blow, no return  
 FF: 6-1/2" blow, no return  
 Recovery: 70' WM w/oil spots (20%W, 80%M), 60' WM (30%W, 70%M), 120' WM (45%W, 55%M)  
 IHP: 2193 FHP: 2152  
 IFP: 18-97 ISIP: 1015  
 FFP: 102-135 FSIP: 994  
 BHT - 118 F  
 Chlorides - 59,000 ppm

**CHEROKEE SH  
4357 (-1550)**

**JOHNSON ZONE  
4397 (-1590)**

DST #8 4400-4436 (Johnson Zone)  
 30:45:30:60  
 IF: BOB 29-1/2 min, no return  
 FF: 9-3/4" blow, no return  
 Recovery: 30' Cl Oil, 60' MCO (30%M, 70%O), 60' GOCM (10%G, 30%O, 60%M)  
 IHP: 2188 FHP: 2126  
 IFP: 18-49 ISIP: 995  
 FFP: 53-63 FSIP: 1009  
 BHT - 119 F  
 Gravity - 25

**MISSISSIPPIAN 4458 (-1651)**



LS: as above, incr in chert

LS: as above

SH: gry-blk-brn

LS: crm-tan, vixln, sl chalky, dense, NS

LS: as above

LS: as above

SH: gry-blk-brn

**RTD - 4600'**

**LTD - 4600'**





257566

TICKET NUMBER 39357  
 LOCATION Oakley KS  
 FOREMAN Fuzzy

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

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-22-13	6308	Knopp #5	13	14	32	Lawson
CUSTOMER Pioneer Resources		Oakley S-Jay hawk Rd 1 E 3/4 N 6 in	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			463	Travis W		
CITY			466	Mike P		
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 218' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 218' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 12.6 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on w-w + 6. Rise up and circulate.  
mix 165 sks class 'A' 390cc 290gal. Displace 12 1/2 BBLs  
and shut in. Cement did circulate approx 4 BBLs to pit

Thanks Fuzzy & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	20	MILEAGE	5.00	100.00
5407	7.8 ton	Tow mileage delivery (min)	410.00	410.00
11045	165 sks	Class 'A' cement	17.65	2912.25
1102	465 #	Calcium Chloride	0.89	413.85
118B	310 #	Bentonite	.25	77.50
		subtotal		4998.60
		less 10.00		4998.60
		subtotal!		4498.74
		<input checked="" type="checkbox"/> completed		
		SALES TAX		238.94
		ESTIMATED TOTAL		4737.68

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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.

# SWIFT



P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300

4

## Invoice

DATE	INVOICE #
4/4/2013	24306

BILL TO
Pioneer Resources, LLC 80 Windmill Drive Phillipsburg, KS 67661-9622

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#5	Knopp	Gove	WW Drilling	Oil	Development	Cement LongStri...	Don

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	80	Miles	6.00	480.00
579D	Pump Charge - Two-Stage	1	Job	1,850.00	1,850.00
580	Additional Hours (If Circulate More Than 1 Hour)	2	Hours	200.00	400.00
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
281	Mud Flush	500	Gallon(s)	1.25	625.00T
290	D-Air	5	Gallon(s)	35.00	175.00T
402-5	5 1/2" Centralizer	10	Each	70.00	700.00T
403-5	5 1/2" Cement Basket	3	Each	250.00	750.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	350.00	350.00T
408-5	5 1/2" D.V. Tool & Plug Set	1	Each	3,000.00	3,000.00T
411-5	5 1/2" Recipo Scratcher	40	Each	45.00	1,800.00T
417-5	5 1/2" D.V. Latch Down Plug & Baffle	1	Each	200.00	200.00T
325	Standard Cement	175	Sacks	13.50	2,362.50T
276	Flocele	44	Lb(s)	2.00	88.00T
283	Salt	875	Lb(s)	0.20	175.00T
284	Calseal	9	Sack(s)	35.00	315.00T
285	CFR-1	83	Lb(s)	4.00	332.00T
330	Swift Multi-Density Standard (MIDCON II)	300	Sacks	16.50	4,950.00T
276	Flocele	75	Lb(s)	2.00	150.00T
581D	Service Charge Cement	475	Sacks	2.00	950.00
583D	Drayage	1,925.12	Ton Miles	1.00	1,925.12
	Subtotal				21,677.62
	Sales Tax Gove County			8.05%	1,293.84

PR  
4-11-13

**We Appreciate Your Business!**

**Total** \$22,971.46