



**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

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: \_\_\_\_\_



1151167

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
---	---

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

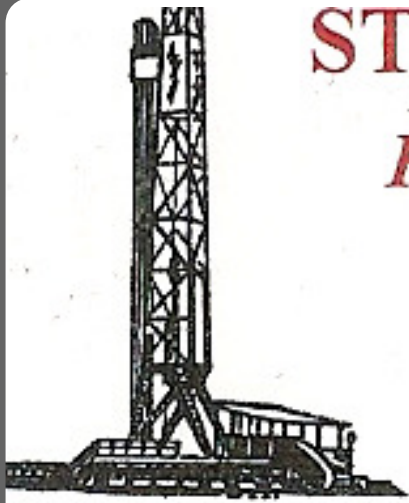
Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

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

<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> _____ _____
--	---	---

# 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 #6

Location: Logan County

License Number: API # 15-109-211179-00-00

Spud Date: 5/18/13

Surface Coordinates: 2590' FSL & 335' FWL (NE NW SW NW )  
Section 13-T14S-R32W

Bottom Hole Coordinates: Vertical well w/minimal deviation

Ground Elevation (ft): 2793'

K.B. Elevation (ft): 2803'

Logged Interval (ft): 3600'

To: TD

Total Depth (ft): RTD - 4520'

Formation: Topeka through Mississippian

Type of Drilling Fluid: Chemical (Mudco, Inc)

Region: Kansas  
Drilling Completed: 5/30/13

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 Nabors (Hays, KS shop). Logs included Compensated Neutron/Compensated Density and Dual Induction.

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

Anhydrite Top - 2222 (+581)  
Anhydrite Base - 2280 (+523)  
Heebner - 3781 (-978)  
Toronto - 3800 (-997)  
Lansing - 3818 (-1015)  
Muncie Creek Sh - 3978 (-1175)  
Stark Sh - 4069 (-1266)  
Hushpuckney Sh - 4103 (-1300)  
Base KC - 4150 (-1347)  
Pawnee 4278 (-1475)  
Myrick Station - 4318 (-1515)  
Ft. Scott - 4335 (-1532)  
Cherokee Sh - 4363 (-1560)  
Johnson Zone - 4403 (-1600)  
Morrow Sh - 4438 (-1635)  
Mississippian - 4464 (-1661)

## DSTs

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

**DST #1 3972-4040 (LKC "H-I")**

30:30:30:30

IF: Wk blow died, flushed, no blow  
(Pipe plugged with dirt clod)

FF: No blow, no return

Recovery: 10' Mud w/few oil spots

IHP: 1924 FHP: 1903

IFP: 17-24 ISIP: 714

FFP: 24-26 FSIP: 634

BHT - 111 F

**DST #2 4242-4300 (Marmaton & Pawnee)**

Misrun, packer failure

**DST #3 4252-4300 (Marmaton & Pawnee)**

30:30:30:30

IF: Blow built to 1/4", no return

FF: Wk surface blow, no return

Recovery: 8' Mud w/few oil spots

IHP: 2162 FHP: 1925

IFP: 18-21 ISIP: 543

FFP: 21-23 FSIP: 355

BHT - 112 F

**DST #4 4310-4336 (Myrick Station)**

30:30:30:30

IF: Wk surface blow, no return

FF: No blow, no return

Recovery: 5' Mud w/few oil spots

IHP: 2173 FHP: 2023

IFP: 10-12 ISIP: 23

FFP: 12-14 FSIP: 20

BHT - 110 F

**DST #5 4418-4448 (Johnson)**

45:45:45:60

IF: Blow built to 4 1/2", no return

FF: Blow built to 3", no return

Recovery: 2' Oil, 129 OMCW (2%O,  
75% W, 33% M)

IHP: 2242 FHP: 2016

IFP: 14-48 ISIP: 747

FFP: 51-73 FSIP: 746

BHT - 117 F

Chlorides - 50,000 ppm


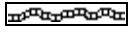
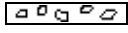
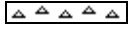
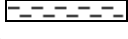
## COMMENTS






Based the negative results of drillstem tests, and sample & log analysis, it was recommended that this test be plugged at a RTD of 4520'.



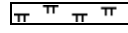

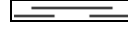
Respectfully submitted,

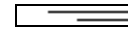
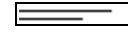



Steven P. Murphy, PG (KS License #228)  
Consulting Petroleum Geologist

### ROCK TYPES




-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst

-  Coal
-  Congl
-  Dol
-  Gyp
-  Igne

-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale

-  Shcol
-  Shgy
-  Sltst
-  Ss
-  Till

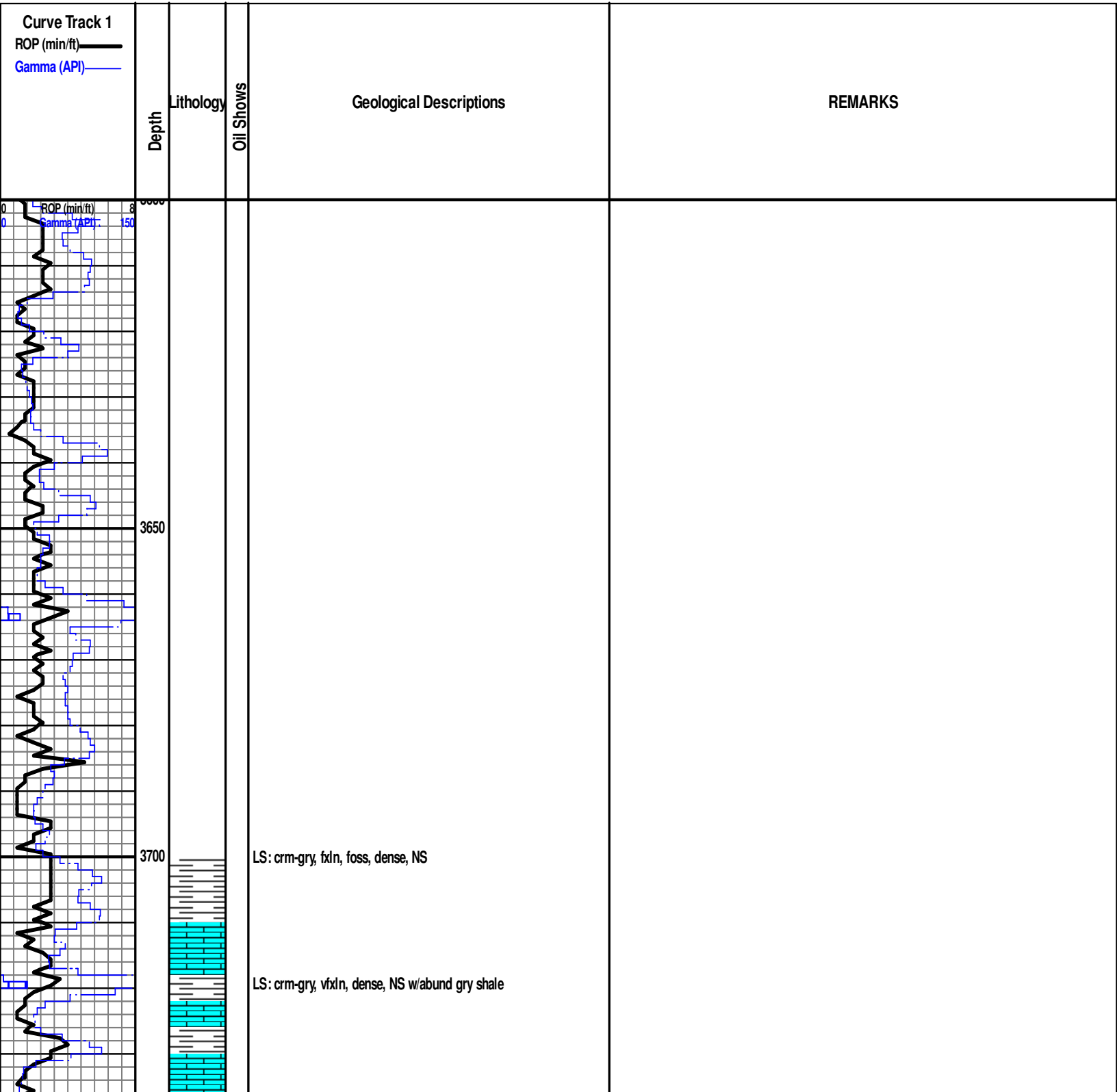
### OTHER SYMBOLS

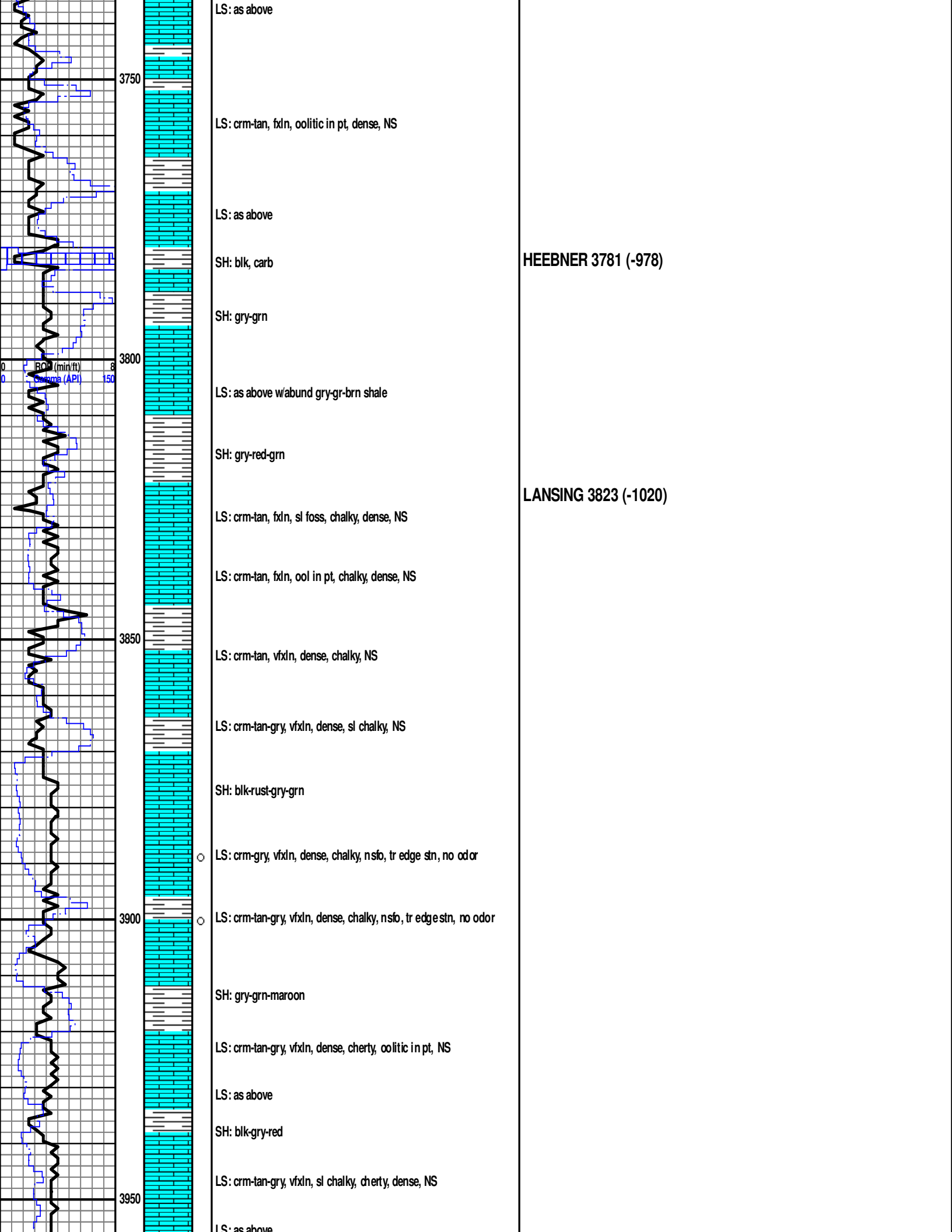
- OIL SHOW**
-  Even
  -  Spotted
  -  Ques

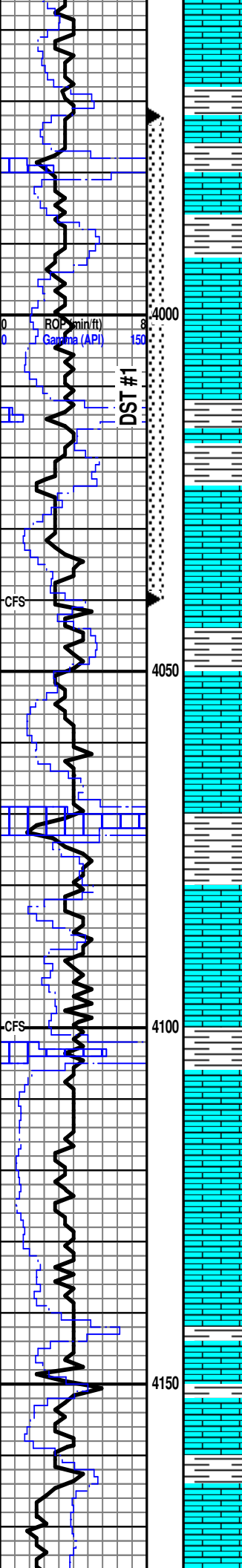
-  Dead
-  Gas

- INTERVAL**
-  Core
  -  Dst

- EVENT**
-  Conn
  -  Rft
  -  Sidewall







LS: as above

LS: as above

SH: blk, carb

SH: gry-grn-red-blk

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

① LS: crm-tan-gry, fxl n, oolic in pt, pr inxln & ppt por, ssfo, spotty stn, fr odor

● LS: as above, sl foss

SH: gry-grn-blk-rust

① LS: wht-tan-gry, fxl n, ool in pt, pr-fr ppt por, ssfo, spotty st, str odor

SH: blk-gry-grn-red

LS: crm-gry, vfxln, dense, NS

LS: as above

SH: blk, carb-gry-grn

○ LS: crm-gry, fxl n, dense, vssfo, pr ppt por, rare stn, fr odor

LS: crm-gry, vfxln, dense, nsfo/stn, sl odor

SH: blk-gry-grn

LS: tan-brn-gry, vfxln, dense, NS

LS: as above

LS: as above w/abund gry-red shale

SH: blk-gry-maroon

LS: crm-gry, vfxln, dense, NS w/shale as above

SH: gry-blk-red

SH: as above

**MUNCIE CRK 3978 (-1175)**

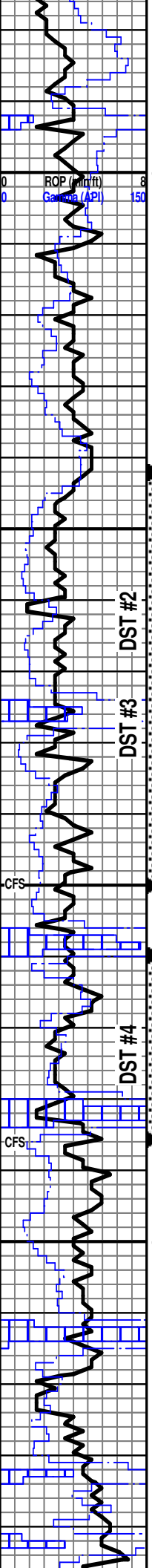
DST #1 3972-4040 (LKC "H-I")  
 30:30:30:30  
 IF: Wk blow died, flushed, no blow  
 (Pipe plugged with dirt clod)  
 FF: No blow, no return  
 Recovery: 10' Mud w/few oil spots  
 IHP: 1924 FHP: 1903  
 IFP: 17-24 ISIP: 714  
 FFP: 24-26 FSIP: 634  
 BHT - 111 F

Strap @ 4040' - 1.58' short  
 Survey @ 4040' - 1/2 degree

**STARK 4071 (-1268)**

**BKC 4148 (-1345)**





SN: as above

LS: crm-tan-gry, vfxln, dense, cherty, NS w/shale as above

LS: wht-brn-gry, vfxln, sl foss, sl chalky, dense, NW

SH: gry-red-brn-grn

LS: crm-brn-gry, vfxln, sl oolitic, dense, NS

LS: crm-gry, vfxln, foss, dense, NS

SH: gry-blk-red

LS: crm-tan-gry, fxl, oolitic in pt, pr-fr inxln por, ssfo, spotty str, sl odor

LS: as above, tight w/red-grn shale

SH: maroon-gry-blk

LS: crm-gry, fxl, oolitic in pt, pr-fr vug & inter-ool por, ssfo, spotty-even str, sl odor

SH: blk, carb

LS: crm-tan, fxl, pr-fr ppt por, fsfo, even sat str, gd odor

LS: crm-tan-gry, vfxln, dense, minor chert, NS

SH: blk, carb

SH: gry-blk-grn-rust

LS: crm-tan-brn, fxl, ool, fr-gd ppt & vug por, fsfo, even sat str, fr odor

SH: blk, carb

LS: crm-brn-gry, vfxln, oolitic in pt, dense, minor chert, NS

LS: as above

SH: blk, carb

LS: crm-tan, fxl, oolitic in pt, pr-fr inxln & vug por, ssfo, spotty str, fr odor

LS: crm-tan-gry, vfxln, dense, rare sfo/str, sl odor

SH: blk, carb

DST #2 4242-4300 (Marmaton & Pawnee)  
Misrun, packer failure

DST #3 4252-4300 (Marmaton & Pawnee)  
30:30:30  
IF: Blow built to 1/4", no return  
FF: Wk surface blow, no return  
Recovery: 8' Mud w/few oil spots  
IHP: 2162 FHP: 1925  
IFP: 18-21 ISIP: 543  
FFP: 21-23 FSIP: 355  
BHT - 112 F

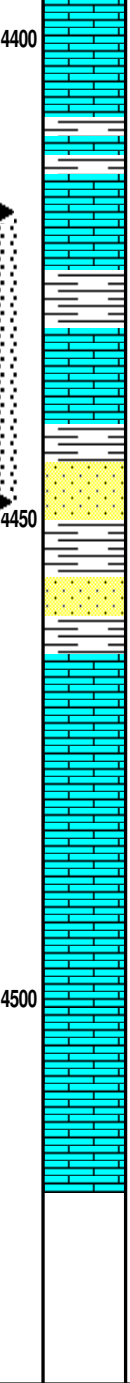
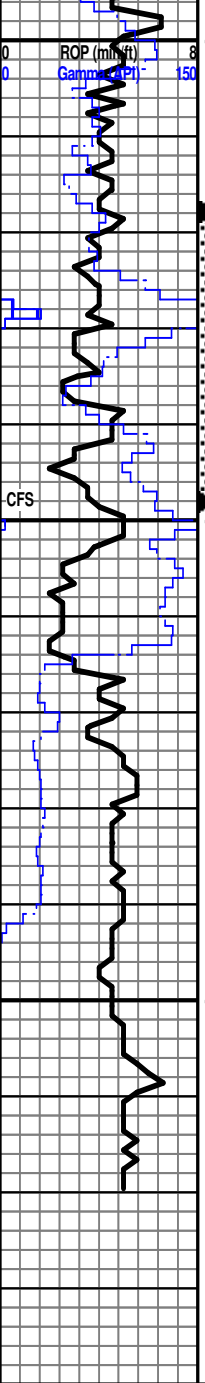
**PAWNEE 4291 (-1488)**

DST #4 4310-4336 (Myrick Station)  
30:30:30  
IF: Wk surface blow, no return  
FF: No blow, no return  
Recovery: 5' Mud w/few oil spots  
IHP: 2173 FHP: 2023  
IFP: 10-12 ISIP: 23  
FFP: 12-14 FSIP: 20  
BHT - 110 F

**MYRICK STATION  
4330 (-1527)**

**FT SCOTT  
4344 (-1541)**

**CHEROKEE  
4369 (-1566)**



SH: blk

LS & SH: as above

SH: gry-blk-rust

LS: crm-brn-gry, fxl'n, pr-fr ppt & vug por, fsfo, spotty strn, str odor

SH: gry-grn-blk

LS: as above w/incr in por & show

SH: gry-grn-blk

Sst: clr, med-gr, sub-ang, prly std, friable, gsfo, str odor

Sst: grn-clr, f-gr w/abund grn shale & chert, NS (60 min)

SH: grn-yel-blk-gry

SH: as above

Sst: clr, f-mgr, prly std, sub-rd, firm to friable, white calcite cement, shaley, NS

LS: wht-tan, fxl'n, sandy-pelletal, tight, NS

LS: as above w/abund blk shale

LS: crm-tan, vfx'n, dense, cherty, sl chalky, NS

LS: as above

LS: crm-tan, vfx'n, dense, minor chert, sl chalky, NS

RTD - 4520'

LTD - 4520'

**JOHNSON ZONE**  
4413 (-1610)

DST #5 4418-4448 (Johnson)  
45:45:560  
IF: Blow built to 4 1/2", no return  
FF: Blow built to 3", no return  
Recovery: 2' Oil, 129 OMCW (2%O, 75% W, 33% M)  
IHP: 2242 FHP: 2016  
IFP: 14-48 ISIP: 747  
FFP: 51-73 FSIP: 746  
BHT - 117 F  
Chlorides - 50,000 ppm

**MISSISSIPPIAN**  
4466 (-1663)

PO Box 93999  
Southlake, TX 76092

Invoice Number: 136524

Invoice Date: May 30, 2013

Voice: (817) 546-7282  
Fax: (817) 246-3361

Page: 1

**Bill To:**

Pioneer Resources LLC  
80 Windmill Drive  
Phillipsburg, KS 67661

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
PioRes	60271	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Oakley	May 30, 2013	6/29/13

Quantity	Item	Description	Unit Price	Amount
		Knopp #6		
132.00	MAT	Class A Common	17.90	2,362.80
88.00	MAT	Pozmix	9.35	822.80
8.00	MAT	Gel	23.40	187.20
55.00	MAT	Flo Seal	2.97	163.35
236.28	SER	Cubic Feet	2.48	585.97
227.01	SER	Ton Mileage	2.60	590.23
1.00	SER	Plug to Abandon	2,483.59	2,483.59
23.00	SER	Pump Truck Mileage	7.70	177.10
23.00	SER	Light Vehicle Mileage	4.40	101.20
1.00	EQP	8.5/8 Wooden Plug	107.64	107.64
1.00	CEMENTER	LaRene Wentz		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	Kevin Ryan		

8173.27  
1713.83  
6459.44

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,713.83

ONLY IF PAID ON OR BEFORE  
Jun 24, 2013

Subtotal	7,581.88
Sales Tax	591.39
Total Invoice Amount	8,173.27
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,173.27</b>

PD  
6-10-13

1713.83  
#6459.44

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 136428  
Invoice Date: May 21, 2013  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

**Bill To:**

Pioneer Resources LLC  
80 Windmill Drive  
Phillipsburg, KS 67661

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
PioRes	60297	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Oakley	May 21, 2013	6/20/13

Quantity	Item	Description	Unit Price	Amount
		Knopp #6		
160.00	MAT	Class A Common	17.90	2,864.00
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
173.01	SER	Cubic Feet	2.48	429.06
181.70	SER	Ton Mileage	2.60	472.42
1.00	SER	Surface	1,512.25	1,512.25
23.00	SER	Pump Truck Mileage	7.70	177.10
1.00	SER	Swedge Manifold Rental -- No Charge		
23.00	SER	Light Vehicle Mileage	4.40	101.20
1.00	CEMENTER	Darren Racette		
1.00	EQUIP OPER	Tyler Flipse		
1.00	OPER ASSIST	David Scariano		

6-22-13 PD  
 6,209.52  
 1,382.36  
 \$ 4,827.16

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1,382.36

ONLY IF PAID ON OR BEFORE  
Jun 15, 2013

Subtotal	6,010.23
Sales Tax	199.29
Total Invoice Amount	6,209.52
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,209.52</b>

1,382.36  
 4,827.16