



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1175419
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
-----------------------------------	-----------------	---

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: _____

1175419

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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: 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: <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: _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, a General Partnership
Well Name	Demel C-1
Doc ID	1175419

Tops

Name	Top	Datum
TOPEKA	2688	-832
HEEBNER SHALE	2976	-1120
DOUGLAS SHALE	3000	-1144
BROWN LIME	3075	-1219
LKC	3086	-1230
BKC	3325	-1469
ARBUCKLE	3380	-1524
RTD	3399	-1543

OPERATOR

Company: CARRIE EXPLORATION AND DEVELOPMENT
 Address: 210 W. 22ND
 HAYS, KS 67601

Contact Geologist: RON HEROLD
 Contact Phone Nbr: 913-961-2760
 Well Name: DEMEL C-1
 Location: NE NW SW SE S22 T17S R12W API: 15-009-25,916-00-00
 Pool: WILDCAT Field:
 State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: DEMEL C-1
 Surface Location: NE NW SW SE S22 T17S R12W
 Bottom Location:
 API: 15-009-25,916-00-00
 License Number: 6768
 Spud Date: 12/18/2013 Time: 4:30 PM
 Region: BARTON COUNTY
 Drilling Completed: 12/27/2013 Time: 11:30 PM
 Surface Coordinates: 1134' FSL & 1994' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 1848.00ft
 K.B. Elevation: 1856.00ft
 Logged Interval: 0.00ft To: 0.00ft
 Total Depth: 3399.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.6338993 Latitude: 38.5541135
 N/S Co-ord: 1134' FSL
 E/W Co-ord: 1994' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: STEVE REED / HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING CO
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 12/18/2013 Time: 4:30 PM
 TD Date: 12/27/2013 Time: 11:30 PM
 Rig Release: 12/28/2013 Time: 1:45 PM

ELEVATIONS

K.B. Elevation: 1856.00ft Ground Elevation: 1848.00ft
 K.B. to Ground: 8.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL BASED ON LACK OF OIL SHOWS AND BEING LOW TO SURROUNDING DRY HOLES.

OPEN HOLE LOGGING WAS ATTEMPTED BY PIONEER ENERGY SERVICES: ENCOUNTERED A RESTRICTIVE BRIDGE AT 2650' WHICH PREVENTED THE LOGGING FROM BEING COMPLETED.

DRILL STEM TESTING WAS PERFORMED BY SUPERIOR TESTERS: ONE CONVENTIONAL DRILL STEM TEST WAS COMPLETED.

FORMATION TOPS COMPARISON SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

	WELL NAME	COMPARISON WELL	COMPARISON WELL
	DEMEL # C-1	ANNA B-1	DEMEL # 1
	API: 15-009-25961	API: 15-009-25321	API: 15-009-21640
FORMATION	SAMPLE TOPS	LOG TOPS (DATUM)	LOG TOPS (DATUM)
TOPEKA	2688' (-832')	-832'	-824'
HEEBNER	2976' (-1120')	-1116'	-1109'
TORONTO	2991' (-1135')	-1133'	-1128'
DOUGLAS	3000' (-1144')	-1146'	-1140'
BROWN LIME	3075' (-1219)	-1212'	-1212'
LKC	3086'' (-1230')	-1227'	-1227'
BKC	3325' (-1469')	-1467'	-1470'
ARBUCKLE	3380' (-1524')	-1482'	-1522'
RTD	3399' (-1543')	-1571'	-1554'

SUMMARY OF DAILY ACTIVITY


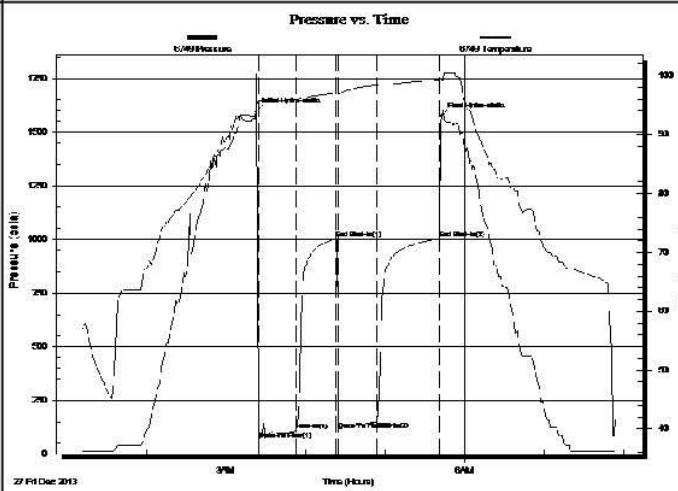
12-18-13 R.U., spud @ 4:30pm, 8 5/8" surface casing set at 320' w/200 sxs common, 2% gel, 3% cc, plug down @ 11:30pm.

12-19-13 320', WOC, drilling

12-20-13 1850' drilling

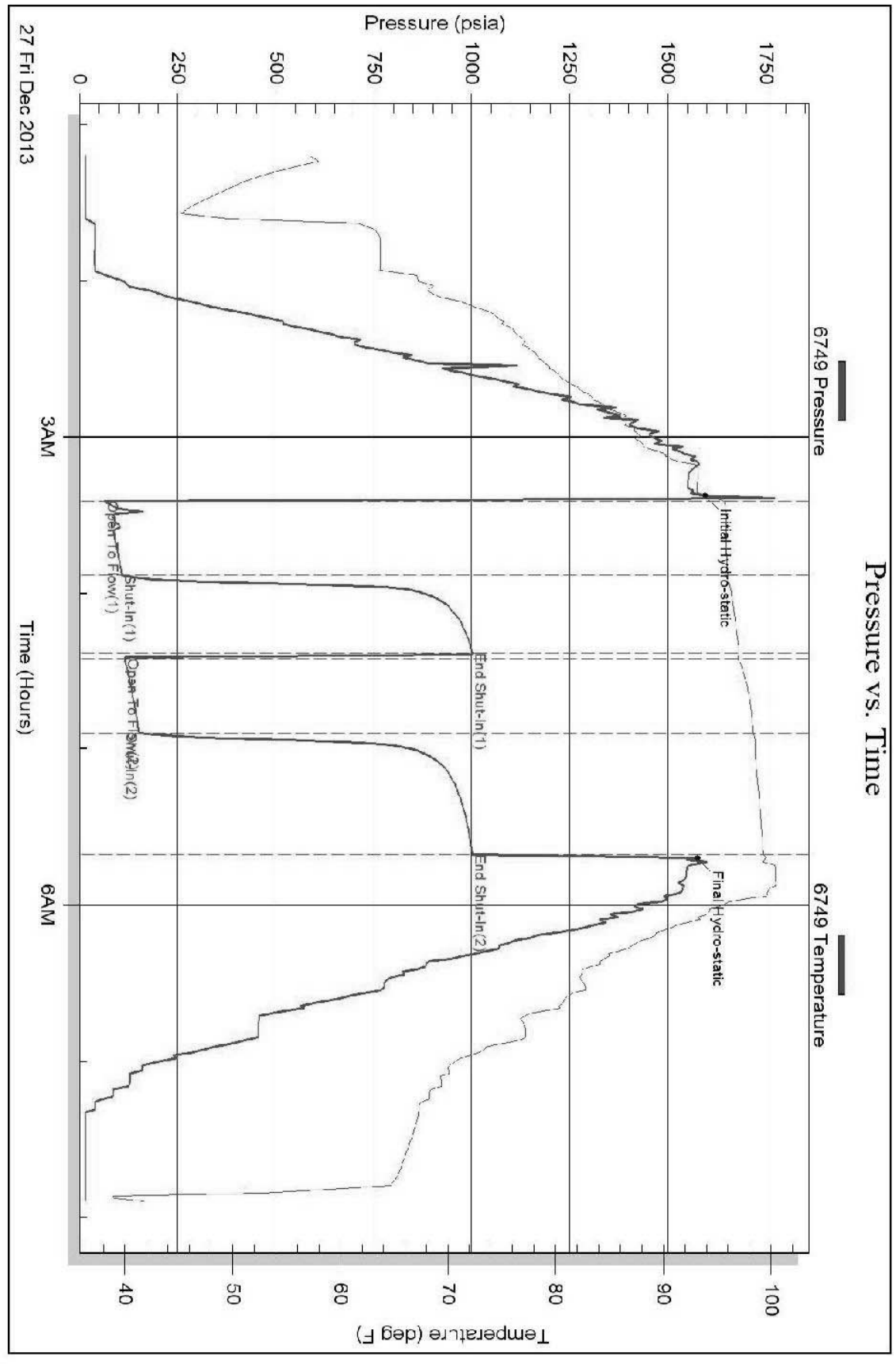
12-20-13 1850', drilling
 12-21-13 2730', drilling
 12-22-13 3085', shut down
 12-23-13 3085', shut down
 12-24-13 3085', shut down
 12-25-13 3085', shut down
 12-26-13 3085', resume drilling, CFS @ 3248, TOWB, survey 1.5°, DST #1
 12-27-13 3248', TOWT, CFS @ 3384', TD @ 3399', survey 1.75°
 12-28-13 plugging with 165 sxs of 60/40 Poz, 4% gel, ¼# flo, tear down, release rig

DST #1 SUMMARY

	DRILL STEM TEST REPORT																														
	Carrie Exploration & Development 210 West 22nd Hays, Kansas 67601 ATTN: Steve Reed	22/17S/12W/Barton Demel #C01 Job Ticket: 17073 DST#: 1 Test Start: 2013.12.27 @ 01:11:00																													
GENERAL INFORMATION:																															
Formation: Kansas City zones H& Deviated: No Whipstock: ft (KB) Time Tool Opened: 03:24:30 Time Test Ended: 07:53:30 Test Type: Conventional Bottom Hole (Initial) Tester: Ken Swinney Unit No: 3325 Great Bend/40 Interval: 3204.00 ft (KB) To 3248.00 ft (KB) (TVD) Total Depth: 3248.00 ft (KB) (TVD) Hole Diameter: 7.80 inches Hole Condition: Poor Reference Elevations: 1856.00 ft (KB) 1848.00 ft (CF) KB to GR/CF: 8.00 ft																															
Serial #: 6749 Inside																															
Press@RunDepth: 152.57 psia @ 3244.00 ft (KB) Capacity: 5000.00 psia Start Date: 2013.12.27 End Date: 2013.12.27 Last Calib.: 2013.12.27 Start Time: 01:11:00 End Time: 07:53:30 Time On Btm: 2013.12.27 @ 03:22:30 Time Off Btm: 2013.12.27 @ 05:42:00																															
TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 6 minutes 1ST Shut In 30 Minutes/Blow back built to 1 1/2 inch 2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 minutes 45 seconds 2ND Shut In 45 Minutes/Blow back built to bottom of bucket in 30 minutes																															
	PRESSURE SUMMARY																														
	Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation																											
	0	1593.96	94.21	Initial Hydro-static																											
	2	63.56	95.61	Open To Flow (1)																											
	31	108.03	95.95	Shut-In(1)																											
	61	1002.23	97.04	End Shut-In(1)																											
	63	114.80	96.93	Open To Flow (2)																											
	92	152.57	98.36	Shut-In(2)																											
	138	1001.34	99.28	End Shut-In(2)																											
	140	1574.31	99.41	Final Hydro-static																											
Recovery	Gas Rates																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>0.00</td> <td>945 feet of gas in pipe/Gas 100%</td> <td>0.00</td> </tr> <tr> <td>126.00</td> <td>Mud cut Watery Gassy Emulsified Oil</td> <td>1.77</td> </tr> <tr> <td>0.00</td> <td>Mud 10% Water 20% Gas 30% Emuls Oil</td> <td>0.00</td> </tr> <tr> <td>126.00</td> <td>Oil cut Muddy Water</td> <td>1.77</td> </tr> <tr> <td>0.00</td> <td>Oil 5% Mud 15 % Water 80%</td> <td>0.00</td> </tr> <tr> <td>0.00</td> <td>Recov. Chlorides 54,000 ppm</td> <td>0.00</td> </tr> </tbody> </table>	Length (ft)	Description	Volume (bbl)	0.00	945 feet of gas in pipe/Gas 100%	0.00	126.00	Mud cut Watery Gassy Emulsified Oil	1.77	0.00	Mud 10% Water 20% Gas 30% Emuls Oil	0.00	126.00	Oil cut Muddy Water	1.77	0.00	Oil 5% Mud 15 % Water 80%	0.00	0.00	Recov. Chlorides 54,000 ppm	0.00	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psia)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)			
Length (ft)	Description	Volume (bbl)																													
0.00	945 feet of gas in pipe/Gas 100%	0.00																													
126.00	Mud cut Watery Gassy Emulsified Oil	1.77																													
0.00	Mud 10% Water 20% Gas 30% Emuls Oil	0.00																													
126.00	Oil cut Muddy Water	1.77																													
0.00	Oil 5% Mud 15 % Water 80%	0.00																													
0.00	Recov. Chlorides 54,000 ppm	0.00																													
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)																													
Superior Testers Enterprises LLC	Ref. No: 17073	Printed: 2013.12.27 @ 08:15:32																													

DST #1 PRESSURE VS. TIME CHART

Serial #: 6749 Inside Carrie Exploration & Development Deneil #001 DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 17073

Printed: 2013.12.27 @ 08:15:32

ROCK TYPES

Cht vari	Dolprim	Lmst fw>	shale, gry	shale, red
Chtcong	Lmst fw<7	shale, grn	Carbon Sh	

ACCESSORIES

MINERAL	FOSSIL	TEXTURE
▲ Chert, dark	◇ Brachiopod	C Chalky
∩ Glauconite	∩ Bryozoa	L Lithogr
P Pyrite	F Fossils < 20%	
△ Chert White	⊙ Gastropod	
	⊙ Oolite	
	⊙ Oomoldic	
	⊙ Fossilinid	

OTHER SYMBOLS

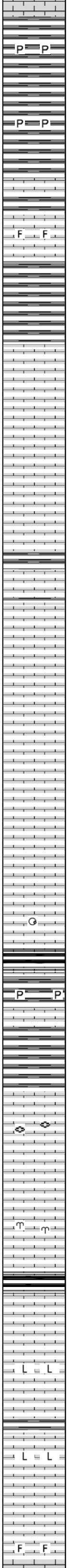
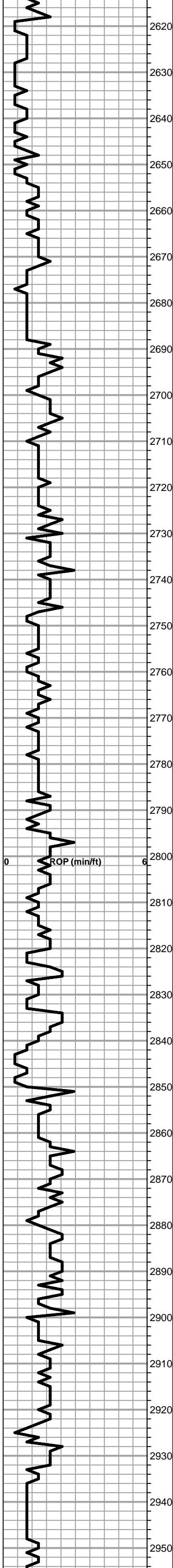
DST

■ DST Int

■ DST alt

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1 ROP (min/ft)	Depth Intervals DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3 1:240 Imperial
1:240 Imperial ROP (min/ft)	Cored Interval DST Interval			BEGIN 1' DRILL TIME AT 2600' BEGIN 10' WET AND DRY SAMPLES AT 2650' Shale, light-medium gray soft blocky, fusilinids	8 5/8" SURFACE CASING SET AT 320' W/200 SXS COMMON, 2%GEL, 3% CC



Shale, medium gray, soft blocky, pyrite clusters

Shale, medium-dark gray, soft blocky, pyrite

Lime, cream, fnxln, slightly fossiliferous

Shale, light gray, soft forming sticky clumps

TOPEKA SPL 2688' (-832')

Lime, tan, fn-medxln, dense

Lime, light-medium gray, medxln - granular, friable

Lime, tan - light brown, fn-medxln, friable

Lime, tan medxln, friable

Shale, gray, soft sticky

Lime, tan-light brown, vf-fnxln dense

Lime, tan, fnxln, dense

Lime, tan-light brown fn-medxln, friable

Lime, tan-light brown, fn-medxln, dense

Lime, cream-tan granular friable

Lime, tan, medxln, friable upon crush

Lime, cream - tan medxln, firm upon crush

Lime, tan, medxln, friable, gastropod fossil

Shale, black carbonaceous, waxy

Shale, gray soft blocky, pyrite

Lime, cream-tan, fnxln, dense

Shale, medium gray, soft forming sticky clumps

Lime, medium brown fine interxln porosity, dense, fusulinids

Lime, medium brown, fnxln, dense

Lime, tan fnxln, dense, bryozoan fossils

Shale, black carbonaceous, waxy

Lime, tan, fine pinpoint porosity in part, dense, no stain, no odor

Lime, light-medium brown, vfnxln - lithographic, dense

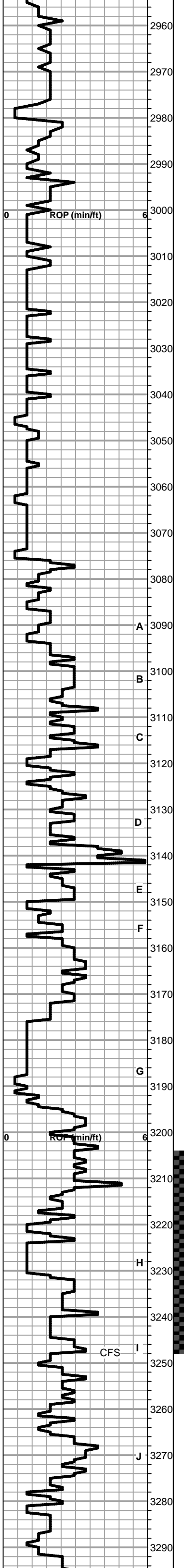
Shale, light-medium gray soft blocky

Lime, cream, lithographic, dense

Lime, cream - light brown, fn-medxln, dense

Lime, cream - tan, fn-medxln, slightly fossiliferous, hard

RESTRICTIVE BRIDGE
PREVENTING OPEN HOLE
LOGGING @ 2650'



Lime, light gray, vfxln, fusulinids, dense

Lime, cream fnxln, dense

HEEBNER SH SPL 2976' (-1120')
Shale, black carbonaceous, fissile

Shale, greenish gray soft blocky

TORONTO SPL 2991' (-1135')
Lime, white, clean and bright, fn-medxln, brittle

DOUGLAS SH SPL 3000' (-1144')
Shale, maroon, soft blocky

Shale, green - gray, soft blocky forming sticky clumps

Shale, light-medium gray, soft blocky

Shale, medium gray, soft blocky

Shale, dark gray, soft blocky

Shale, medium-dark gray, soft fissile

Shale, medium gray, soft blocky, sticky clumps in part

BROWN LIME SPL 3075' (-1219')
Lime, medium brown, fnxln, very dense

Shale, maroon, soft blocky

LKC SPL 3086' (-1230')

Lime, cream - light gray, fnxln, dense, couple chips with fine interxln porosity, some vugs poorly developed, slight scattered stain, NSFO, no odor.

Lime, cream- light brown, fnxln, dense, white chert, no odor, NSFO, pyrite

Lime, cream, fnxln, chalky in part

Shale, medium gray, soft blocky

Lime, cream-tan, fnxln, dense, 1 chip with scattered interxln porosity, slight scattered stain, no odor, NSFO, poorly developed.

Lime, cream, fnxln, dense, chalky, few chips with slight vuggy porosity, NSFO, no odor

Lime, tan, medxln, slightly fossiliferous, friable

Lime, light gray-brown, oolitic, poorly developed, bedded chalk.

Shale, medium gray, soft blocky

Lime, cream, vfxln, very hard, light brown cherts.

Lime, cream, lithographic, dense

Lime, cream, oomoldic, poor development, NSFO, no odor

Lime, cream, oolitic, poorly developed, dense hard

Lime, cream, oolitic, dense, low porosity, bryozoan

Shale, medium gray soft blocky

Lime, cream, oomoldic, vuggy porosity, SFO, good odor, light saturated stain

Lime, light brown, fine interxln porosity with scattered vugs, light staining, NSFO, slight odor

Lime, tan, oolitic, fine interxln porosity poorly developed, NSFO, no odor

Shale, medium-dark gray, soft blocky, waxy

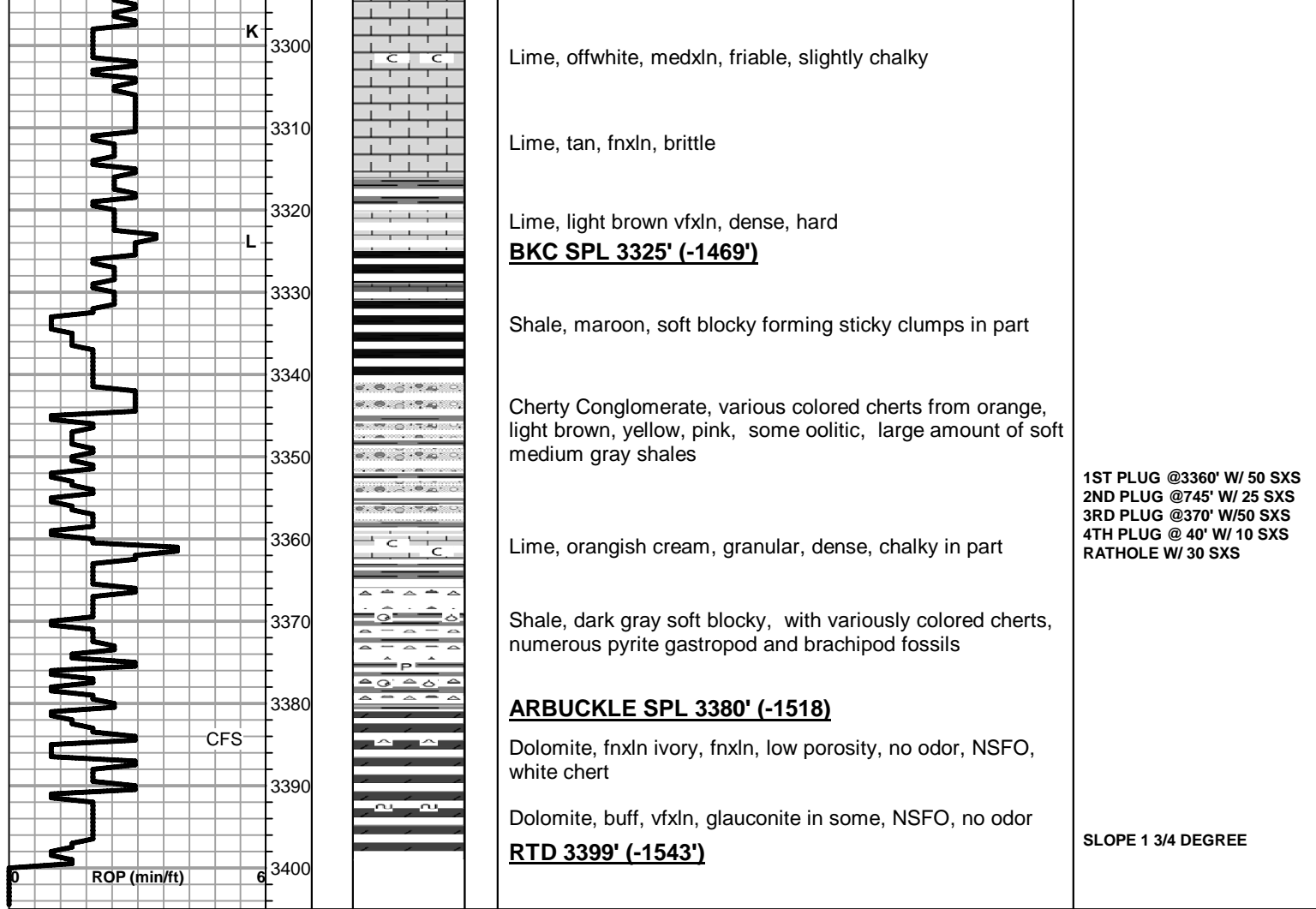
Lime, cream-light brown, scattered interxln porosity, low overall porosity with slight stain, NSFO, no odor, slightly fossiliferous

Shale, dark gray, soft blocky, pyrite brachiopod

Lime, cream, fnxln, slightly fossiliferous, NSFO, no odor

3086' RIG SHUT DOWN FOR CHRISTMAS

DST #1 3204'-3248': SEE HEADER FOR SUMMARY





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 West 22nd
Hays, Kansas
67601

ATTN: Steve Reed

Demel #C01

22/17S/12W/Barton

Start Date: 2013.12.27 @ 01:11:00

End Date: 2013.12.27 @ 07:53:30

Job Ticket #: 17073 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2013.12.27 @ 08:15:31



DRILL STEM TEST REPORT

Carrie Exploration & Development

22/17S/12W/Barton

210 West 22nd
Hays, Kansas
67601

Demel #C01

Job Ticket: 17073

DST#: 1

ATTN: Steve Reed

Test Start: 2013.12.27 @ 01:11:00

GENERAL INFORMATION:

Formation: **Kansas City zones H&**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:30

Time Test Ended: 07:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

Interval: 3204.00 ft (KB) To 3248.00 ft (KB) (TVD)

Reference Elevations: 1856.00 ft (KB)

Total Depth: 3248.00 ft (KB) (TVD)

1848.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6749

Inside

Press @ Run Depth: 152.57 psia @ 3244.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.12.27

End Date:

2013.12.27

Last Calib.:

2013.12.27

Start Time: 01:11:00

End Time:

07:53:30

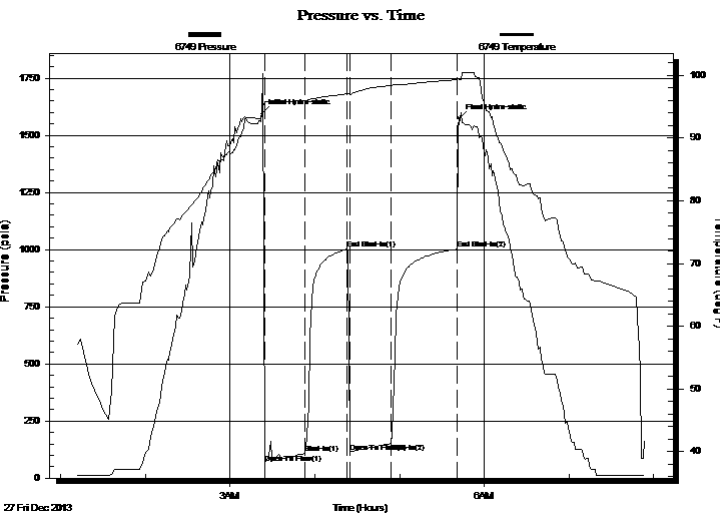
Time On Btm:

2013.12.27 @ 03:22:30

Time Off Btm:

2013.12.27 @ 05:42:00

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 6 minutes
 1ST Shut In 30 Minutes/Blow back built to 1 1/2 inch
 2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 minutes 45 seconds
 2ND Shut In 45 Minutes/Blow back built to bottom of bucket in 30 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1593.96	94.21	Initial Hydro-static
2	63.56	95.61	Open To Flow (1)
31	108.03	95.95	Shut-In(1)
61	1002.23	97.04	End Shut-In(1)
63	114.80	96.93	Open To Flow (2)
92	152.57	98.36	Shut-In(2)
138	1001.34	99.28	End Shut-In(2)
140	1574.31	99.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	945 feet of gas in pipe/Gas 100%	0.00
126.00	Mud cut Watery Gassy Emulsified Oil	1.77
0.00	Mud 10% Water 20% Gas 30% Emuls Oil	0.00
126.00	Oil cut Muddy Water	1.77
0.00	Oil 5% Mud 15 % Water 80%	0.00
0.00	Recov. Chlorides 54,000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Carrie Exploration & Development

22/17S/12W/Barton

210 West 22nd
Hays, Kansas
67601

Demel #C01

Job Ticket: 17073

DST#: 1

ATTN: Steve Reed

Test Start: 2013.12.27 @ 01:11:00

GENERAL INFORMATION:

Formation: **Kansas City zones H&**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:24:30

Time Test Ended: 07:53:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/40

Interval: 3204.00 ft (KB) To 3248.00 ft (KB) (TVD)

Reference Elevations: 1856.00 ft (KB)

Total Depth: 3248.00 ft (KB) (TVD)

1848.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 6838 Outside

Press @ Run Depth: 995.62 psia @ 3245.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.12.27

End Date: 2013.12.27

Last Calib.: 2013.12.27

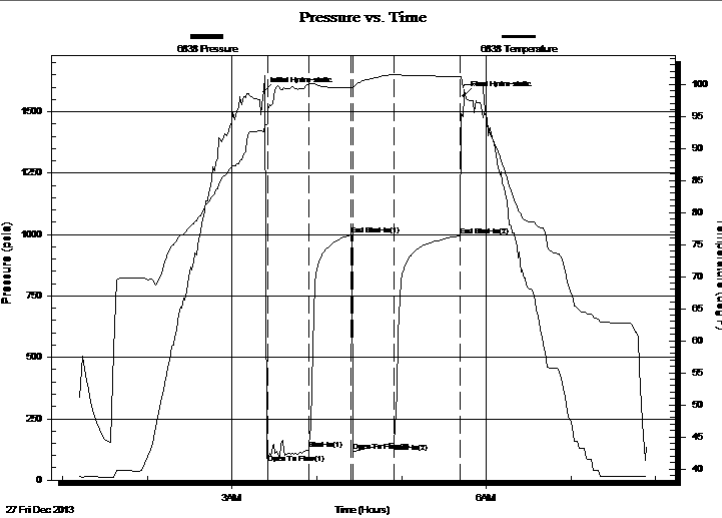
Start Time: 01:11:00

End Time: 07:54:00

Time On Btm: 2013.12.27 @ 03:22:30

Time Off Btm: 2013.12.27 @ 05:44:00

TEST COMMENT: 1ST Open 30 Minutes/Good blow /Blow built to bottom of bucket in 6 minutes
 1ST Shut In 30 Minutes/Blow back built to 1 1/2 inch
 2ND Open 30 Minutes/Good blow /Blow built to bottom of bucket in 4 minutes 45 seconds
 2ND Shut In 45 Minutes/Blow back built to bottom of bucket in 30 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1581.71	92.61	Initial Hydro-static
3	70.02	93.85	Open To Flow (1)
32	124.38	99.94	Shut-In(1)
62	999.40	99.41	End Shut-In(1)
63	116.51	99.33	Open To Flow (2)
92	151.75	101.47	Shut-In(2)
139	995.62	101.12	End Shut-In(2)
142	1563.82	99.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	945 feet of gas in pipe/Gas 100%	0.00
126.00	Mud cut Watery Gassy Emulsified Oil	1.77
0.00	Mud 10% Water 20% Gas 30% Emuls Oil	0.00
126.00	Oil cut Muddy Water	1.77
0.00	Oil 5% Mud 15 % Water 80%	0.00
0.00	Recov. Chlorides 54,000 ppm	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development

22/17S/12W/Barton

210 West 22nd
Hays, Kansas
67601

Demel #C01

Job Ticket: 17073

DST#: 1

ATTN: Steve Reed

Test Start: 2013.12.27 @ 01:11:00

Tool Information

Drill Pipe:	Length: 3204.00 ft	Diameter: 3.80 inches	Volume: 44.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 44.94 bbl</u>	Tool Chased 12.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3204.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: 8 foot slide before tool open/ 4 foot slide after open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3189.00	
Hydraulic Tool	5.00			3194.00	
Packer	5.00			3199.00	20.00 Bottom Of Top Packer
Packer	5.00			3204.00	
Anchor	39.00			3243.00	
Recorder	1.00	6749	Inside	3244.00	
Recorder	1.00	6838	Outside	3245.00	
Bullnose	3.00			3248.00	44.00 Bottom Packers & Anchor

Total Tool Length: 64.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development

22/17S/12W/Barton

210 West 22nd
Hays, Kansas
67601

Demel #C01

Job Ticket: 17073

DST#: 1

ATTN: Steve Reed

Test Start: 2013.12.27 @ 01:11:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 46.00 sec/qt
Water Loss: 9.80 in³
Resistivity: ohm.m
Salinity: 9000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psia

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	945 feet of gas in pipe/Gas 100%	0.000
126.00	Mud cut Watery Gassy Emulsified Oil	1.767
0.00	Mud 10% Water 20% Gas 30% Emuls Oil 40%	0.000
126.00	Oil cut Muddy Water	1.767
0.00	Oil 5% Mud 15 % Water 80%	0.000
0.00	Recov. Chlorides 54,000 ppm	0.000
0.00	Recov. Resist..28ohms @ 58deg	0.000

Total Length: 252.00 ft Total Volume: 3.534 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

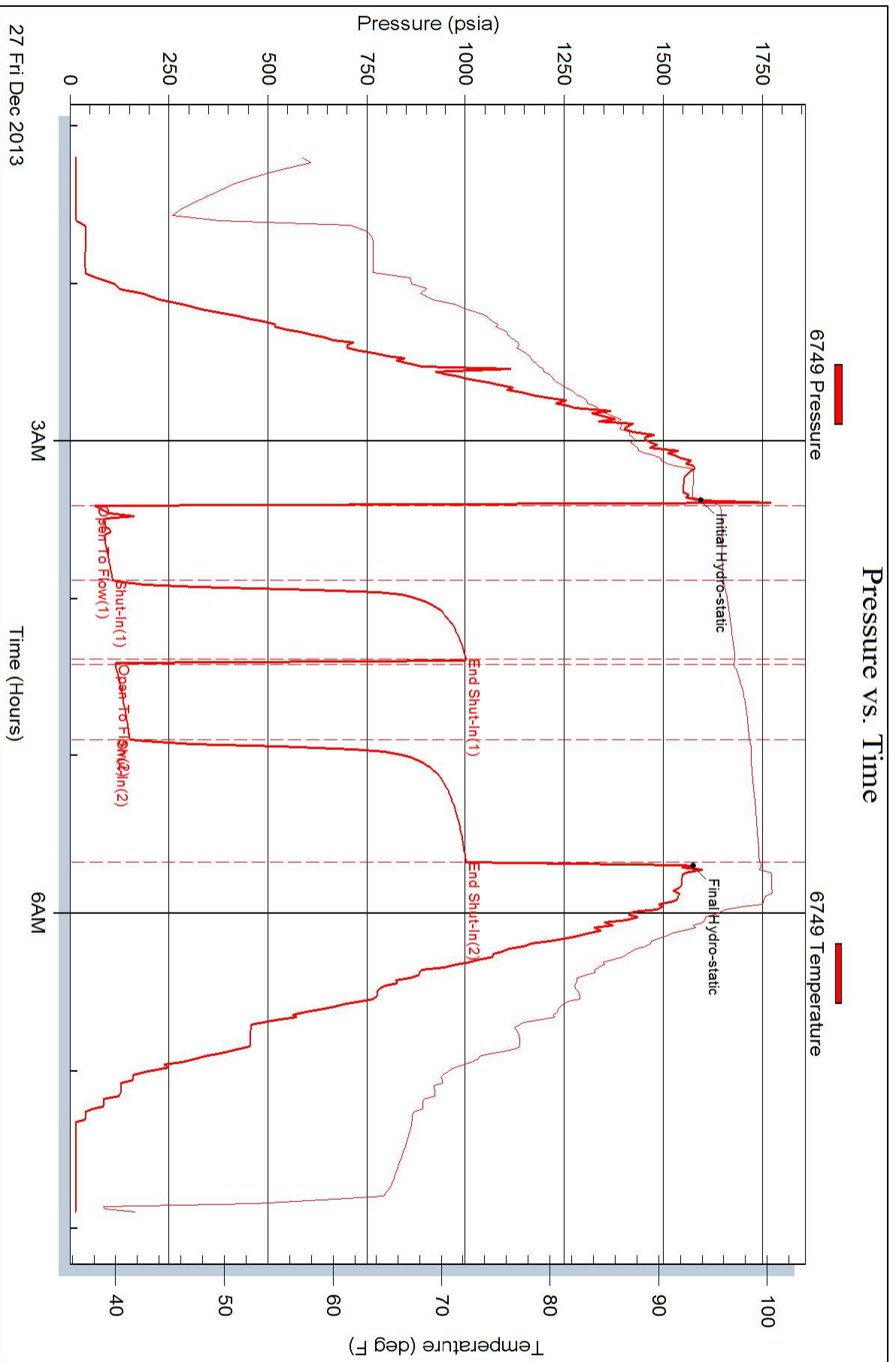
Serial #:

Laboratory Name:

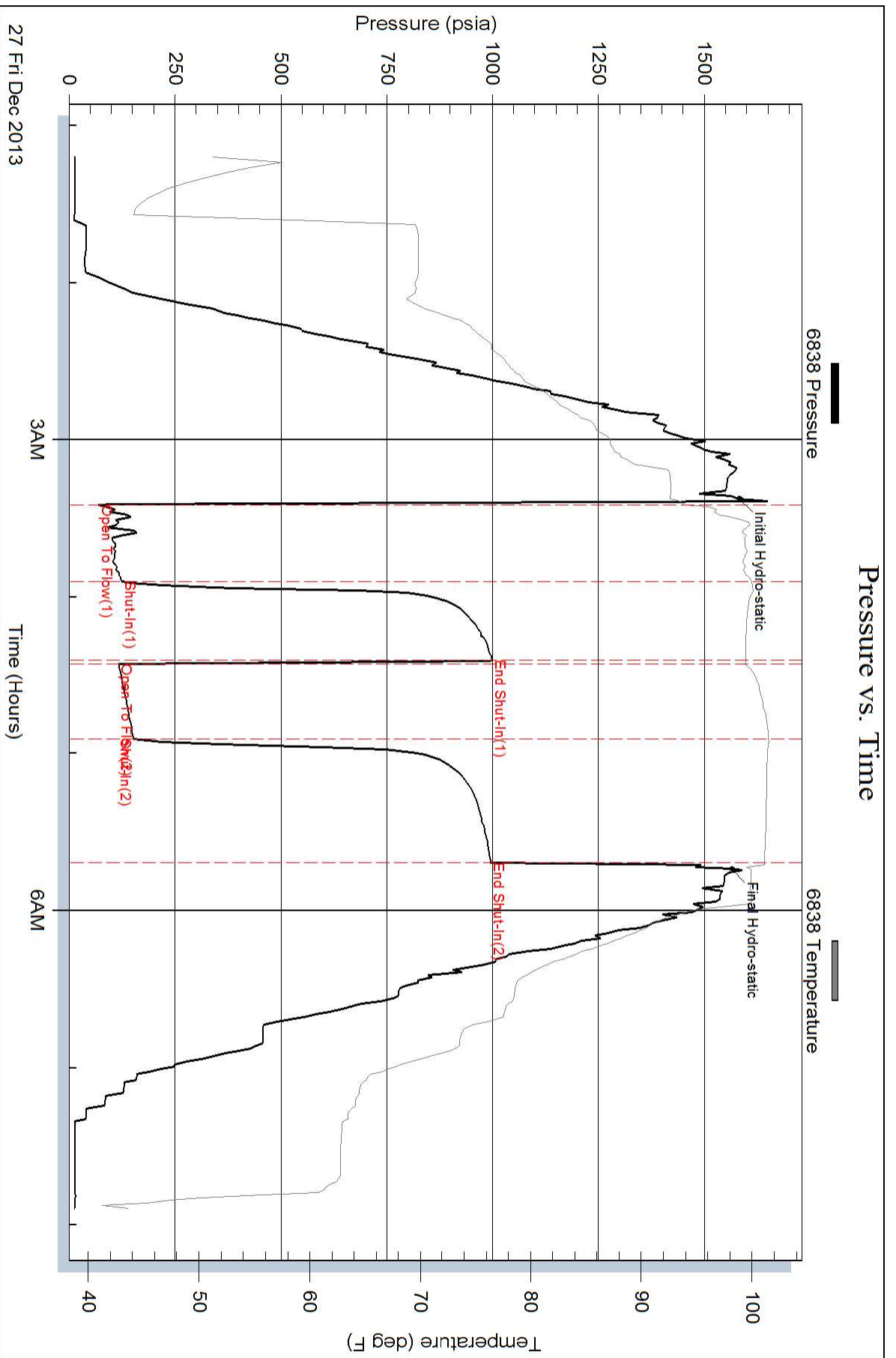
Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time





INVOICE

PO Box 93999
Southlake, TX 76092

Invoice Number: 140450

Invoice Date: Dec 18, 2013

Voice: (817) 546-7282

Page: 1

Fax: (817) 246-3361

Bill To:
Carrie Exploration & Development LLC 210 West 22nd Street Hays, KS 67601

Customer ID	Field Ticket #	Payment Terms	
Carrie	61088	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Dec 18, 2013	1/17/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Demel C #1		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
4.00	CEMENT MATERIALS	Gel	23.40	93.60
564.00	CEMENT MATERIALS	Chloride	0.80	451.20
216.66	CEMENT SERVICE	Cubic Feet Charge	2.48	537.32
197.60	CEMENT SERVICE	Ton Mileage Charge	2.60	513.76
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		

Subtotal	6,930.13
Sales Tax	294.92
Total Invoice Amount	7,225.05
Payment/Credit Applied	
TOTAL	7,225.05

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

\$ 1,732.53

ONLY IF PAID ON OR BEFORE

Jan 12, 2014

ALLIED OIL & GAS SERVICES, LLC 061088

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

DATE <u>12-18-13</u>	SEC. <u>22</u>	TWP. <u>17</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Demel</u>		WELL # <u>C-1</u>		LOCATION <u>Houston E to rd 90-2N</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>Y2W Nitro</u>			

CONTRACTOR <u>Southland G</u>	OWNER _____
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 3/4</u> T.D. _____	AMOUNT ORDERED <u>200 SKs Class A 3% gel</u>
CASING SIZE <u>8 5/8</u> DEPTH <u>320</u>	<u>2 1/2 gal</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE <u>4 1/2</u> DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>200</u> @ <u>17.90</u> <u>3580.00</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>15 Ft</u>	GEL <u>4</u> @ <u>23.40</u> <u>93.60</u>
PERFS. _____	CHLORIDE <u>564</u> @ <u>.80</u> <u>451.20</u>
DISPLACEMENT <u>19.42 bbl fresh water</u>	ASC _____ @ _____

EQUIPMENT

PUMP TRUCK # <u>398</u>	CEMENTER <u>Josh Isaac</u>
BULK TRUCK # <u>871-112</u>	HELPER <u>Mike Scottorn</u>
BULK TRUCK # _____	DRIVER <u>Tommy Tijerina TAS</u>
BULK TRUCK # _____	DRIVER _____

HANDLING <u>216.66</u>	@ <u>2.48</u>	<u>537.32</u>
MILEAGE <u>9.88 X 20 X 2.60</u>		<u>513.76</u>
TOTAL		<u>5175.88</u>

REMARKS:
On location - rig up - had safety meeting
run 3 1/2 casing - Break casing - 1/2 rig down
run 5 bbl fresh water
with 200 SKs Class A 3% gel 2 1/2 gal
Displace 19.42 bbl fresh water
Shut in
Cement did circulate
Rig down

CHARGE TO: Comie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>320</u>		
PUMP TRUCK CHARGE _____		<u>1512.25</u>
EXTRA FOOTAGE _____	@ _____	
MILEAGE <u>HVM 20</u>	@ <u>7.70</u>	<u>154.00</u>
MANIFOLD _____	@ _____	
<u>LVM 20</u>	@ <u>4.40</u>	<u>88.00</u>
TOTAL		<u>1754.25</u>

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 X Wesley Pfaff

SIGNATURE X Wesley Pfaff

Thank you!

SALES TAX (If Any) _____

TOTAL CHARGES 6930.13

DISCOUNT -1732.53 IF PAID IN 30 DAYS

\$5197.60

ALLIED OIL & GAS SERVICES, LLC 061090

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Great Bend

DATE <u>12-28-13</u>	SEC <u>22</u>	TWP <u>17</u>	RANGE <u>12</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30pm</u>	JOB FINISH <u>1:30pm</u>
LEASE <u>D-mel</u>		WELL# <u>C-1</u>		LOCATION <u>Haining KS East to Rd 90</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>2N 2W N100</u>			

CONTRACTOR Sourbend 6
 TYPE OF JOB Rotary Pig
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 8 1/2 DEPTH 320
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. All
 PERFS.
 DISPLACEMENT Producers

OWNER
 CEMENT
 AMOUNT ORDERED 195 60/40 44g/gal

EQUIPMENT
 PUMP TRUCK CEMENTER Josh Deel
 # 396 HELPER Mike Scoborn
 BULK TRUCK
 # 610-170 DRIVER Kevin Weighous
 BULK TRUCK
 # DRIVER

COMMON	<u>117</u>	@ <u>17.90</u>	<u>2,094.30</u>
POZMIX	<u>78</u>	@ <u>9.35</u>	<u>729.30</u>
GEL	<u>7</u>	@ <u>23.40</u>	<u>163.80</u>
CHLORIDE		@	
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>206.66</u>	@ <u>2.48</u>	<u>512.51</u>
MILEAGE	<u>8.73 x 20 x</u>	<u>2.60</u>	<u>453.96</u>
			TOTAL <u>3,953.87</u>

REMARKS:
On location - Rig up - had setting in rig
Run 4 1/2 drill pipe - Fill hole w/ rig mud
#1 - 3360 - 50SKS
#2 - 745 - 20SKS RH - 30SKS
#3 - 370 - 50SKS
#4 40 - 10SKS
Run down
Rig down

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE	<u>2600.47</u>		
EXTRA FOOTAGE	@		
MILEAGE	<u>Hum 20</u>	@ <u>7.70</u>	<u>154.00</u>
MANIFOLD	@		
	<u>LUM 20</u>	@ <u>4.40</u>	<u>88.00</u>
	@		
			TOTAL <u>2,842.47</u>

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

PLUG & FLOAT EQUIPMENT

<u>wooden plug</u>	@ <u>107.00</u>	<u>107.00</u>
	@	
	@	
	@	
	@	
		TOTAL <u>107.00</u>

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.

SALES TAX (If Any) _____
 TOTAL CHARGES 6,903.34
 DISCOUNT 1,380.66 IF PAID IN 30 DAYS
5,522.67

PRINTED NAME X Frank Rome
 SIGNATURE X Frank Rome

Thank you!



PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 140565

Invoice Date: Dec 23, 2013

Page: 1

Bill To:
Carrie Exploration & Development LLC 210 West 22nd Street Hays, KS 67601

Customer ID	Field Ticket #	Payment Terms	
Carrie	61090	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Great Bend	Dec 23, 2013	1/22/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Demel C #1		
117.00	CEMENT MATERIALS	Class A Common	17.90	2,094.30
78.00	CEMENT MATERIALS	Pozmix	9.35	729.30
7.00	CEMENT MATERIALS	Gel	23.40	163.80
206.66	CEMENT SERVICE	Cubic Feet Charge	2.48	512.52
174.60	CEMENT SERVICE	Ton Mileage Charge	2.60	453.96
1.00	CEMENT SERVICE	Rotary Plug	2,600.47	2,600.47
20.00	CEMENT SERVICE	Pump Truck Mileage	7.70	154.00
20.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	88.00
1.00	EQUIPMENT SALES	8-5/8 Wooden Plug	107.00	107.00
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Mike Scothorn		
1.00	OPERATOR ASSISTANT	Kevin Weighous		

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

\$ 1,380.66

ONLY IF PAID ON OR BEFORE

Jan 17, 2014

Subtotal	6,903.35
Sales Tax	221.25
Total Invoice Amount	7,124.60
Payment/Credit Applied	
TOTAL	7,124.60