



KANSAS CORPORATION COMMISSION 1114480
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 # _____

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: _____

1114480

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 ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

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

CASING RECORD ☐ New ☐ 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 (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 ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
(Submit ACO-5) (Submit ACO-4)
☐ Other (Specify) _____

PRODUCTION INTERVAL:

Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, a General Partnership
Well Name	Lundgren C-2
Doc ID	1114480

Tops

Name	Top	Datum
TOPEKA	2627	-849
HEEBNER SHALE	2890	-1112
TORONTO	2911	-1133
DOUGLAS SHALE	2922	-1144
BROWN LIME	3014	-1236
LKC	3034	-1256
BKC	3287	-1509
ARBUCKLE	3303	-1525

OPERATOR

Company: CARRIE EXPLORATION _DEVELOPMENT, A GENERAL PARTNERSHIP
Address: 210 W 22ND STREET
HAYS, KANSAS 67601

Contact Geologist: RON HEROLD
Contact Phone Nbr: 913-961-2760
Well Name: LUNDGREN # C-2
Location: SE NE NW NW Sec.25-19s-11w API: 15-009-25707-00-00
Pool: WILDCAT Field: CHASE-SILICA
State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: LUNDGREN # C-2
Surface Location: SE NE NW NW Sec.25-19s-11w
Bottom Location:
API: 15-009-25707-00-00
License Number: 6768
Spud Date: 7/9/2012 Time: 1:30 PM
Region: BARTON COUNTY
Drilling Completed: 7/13/2012 Time: 4:58 PM
Surface Coordinates: 438' FNL & 1168' FWL
Bottom Hole Coordinates:
Ground Elevation: 1769.00ft
K.B. Elevation: 1778.00ft
Logged Interval: 2500.00ft To: 3400.00ft
Total Depth: 3400.00ft
Formation: ARBUCKLE
Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 438' FNL
E/W Co-ord: 1168' FWL

LOGGED BY

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

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

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
Rig #: 2
Rig Type: MUD ROTARY
Spud Date: 7/9/2012 Time: 1:30 PM
TD Date: 7/13/2012 Time: 4:58 PM
Rig Release: 7/14/2012 Time: 3:00 PM

ELEVATIONS

K.B. Elevation: 1778.00ft Ground Elevation: 1769.00ft
K.B. to Ground: 9.00ft

NOTES

RECOMMENDATION TO PLUG AND ABANDON WELL DUE TO NEGATIVE RESULTS OF THREE DST'S WHICH

FORMATION TOPS SUMMARY AND DAILY ACTIVITY REPORT

LUNDGREN #C-2
438' FNL & 1168' FWL, NW/4
Sec.25-19s-11w
1769' GL 1778' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Topeka	2626- 848	2627- 849
Heebner Shale	2889-1111	2890-1112
Toronto	2911-1133	2911-1133
Douglas Shale	2921-1143	2922-1144
Brown Lime	3014-1236	3014-1236
LKC	3034-1256	3034-1256
BKC		3287-1509
Arbuckle	3304-1526	3303-1525
RTD	3400-1622	
LTD		3402-1624

7-09-12	RU, Spud, set surface casing to 258' w/175 sxs. Common, 2%gel, 3%CC, Slope survey 1 degree, WOC 8 hrs. Plug down 5:00PM, Allied Cementing Ticket # 53708
7-10-12	814', drilling
7-11-12	2375', drilling
7-12-12	3105', drilling, DST # 1
7-13-12	3318', drilling, DST # 2, RTD, Logs
7-14-12	3400', DST #3 straddle test, P & A

DST # 1 SUMMARY



DRILL STEM TEST REPORT

Carrie Exploration & Development & General Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17362

DST#: 1

ATTN:

Test Start: 2012.07.12 @ 11:40:00

GENERAL INFORMATION:

Formation: Lansing a,b,c,d,e,f,

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:07:30

Time Test Ended: 16:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-80

Interval: 3052.00 ft (KB) To 3150.00 ft (KB) (TVD)

Total Depth: 3150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1778.00 ft (KB)

1769.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 76.69 psia @ ft (KB)

Start Date: 2012.07.12

End Date:

2012.07.12

Capacity: 5000.00 psia

Last Calib.: 2012.07.12

Start Time: 11:40:00

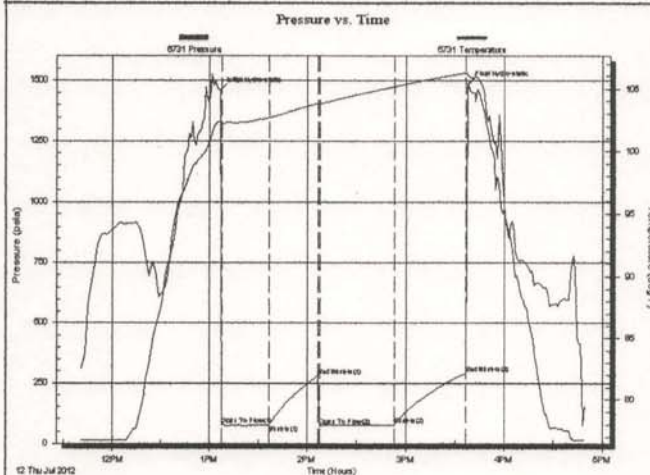
End Time:

16:50:00

Time On Btm: 2012.07.12 @ 13:06:30

Time Off Btm: 2012.07.12 @ 15:38:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 7 minutes
1st Shut-in 30 Minutes-No blow back
2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes
2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1458.69	102.36	Initial Hydro-static
1	72.98	102.20	Open To Flow (1)
30	73.95	102.71	Shut-In(1)
60	277.69	103.82	End Shut-In(1)
61	72.44	103.80	Open To Flow (2)
106	76.69	105.17	Shut-In(2)
150	290.45	106.25	End Shut-In(2)
152	1486.04	105.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy oil cut mud 5%gas 5%oil 90%mud	0.42
0.00	960 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DST # 2 SUMMARY

	DRILL STEM TEST REPORT Carrie Exploration & Development & General Partnership 210 w 22nd Hays KS 67601 ATTN: 25-19-11 Barton Lundgren #c-2 Job Ticket: 17363 DST#: 2 Test Start: 2012.07.13 @ 06:58:00
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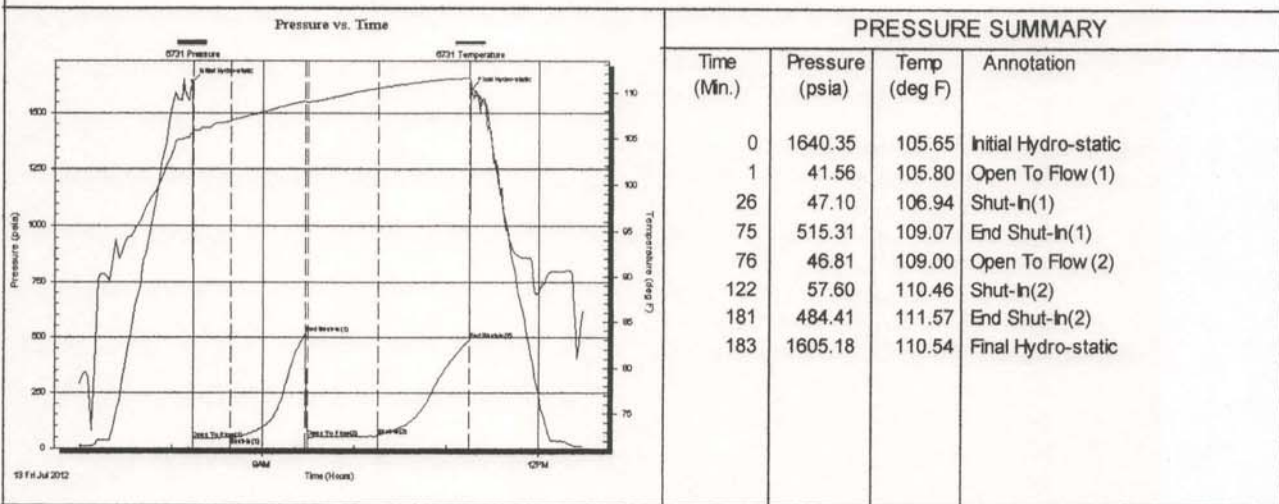
GENERAL INFORMATION:

Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 08:14:30 Time Test Ended: 12:30:00 Interval: 3282.00 ft (KB) To 3318.00 ft (KB) (TVD) Total Depth: 3318.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Test Type: Conventional Bottom Hole (Initial) Tester: Jared Scheck Unit No: 3320-Great Bend-70 Reference Elevations: 1778.00 ft (KB) 1769.00 ft (CF) KB to GR/CF: 9.00 ft
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Serial #: 6731

Press@RunDepth: 57.60 psia @ ft (KB)	Capacity: 5000.00 psia
Start Date: 2012.07.13 End Date: 2012.07.13	Last Calib.: 2012.07.13
Start Time: 06:58:00 End Time: 12:30:00	Time On Btm: 2012.07.13 @ 08:13:30
	Time Off Btm: 2012.07.13 @ 11:16:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 8 inches into water in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 23 minutes
 2nd Shut-in 60 Minutes-No blow back



Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)
35.00	oil mud cut gas 30% mud 30% oil 40% gas	0.49			
0.00	200 feet gas in pipe	0.00			



DRILL STEM TEST REPORT

Carrie Exploration & Development & General
Partnership
210 W 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17364

DST#: 3

ATTN:

Test Start: 2012.07.14 @ 01:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:12:30

Time Test Ended: 06:35:00

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-70

Interval: **3316.00 ft (KB) To 3332.00 ft (KB) (TVD)**

Total Depth: 3402.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1778.00 ft (KB)

1769.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 48.71 psia @ ft (KB)

Start Date: 2012.07.14

End Date:

2012.07.14

Capacity: 5000.00 psia

Last Calib.: 2012.07.14

Start Time: 01:00:00

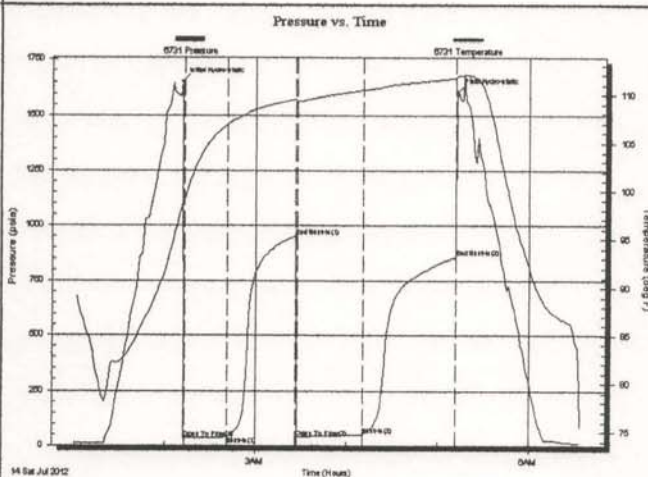
End Time:

06:35:00

Time On Btm: 2012.07.14 @ 02:11:30

Time Off Btm: 2012.07.14 @ 05:13:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 30 minutes
1st Shut-in 45 Minutes-No blow back
2nd Opening 45 Minutes-Strong blow built bottom of bucket in 12 minutes
2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1651.37	98.72	Initial Hydro-static
1	33.65	98.93	Open To Flow (1)
30	39.27	106.91	Shut-In(1)
75	950.95	109.56	End Shut-In(1)
76	38.49	109.33	Open To Flow (2)
119	48.71	110.48	Shut-In(2)
181	858.98	111.66	End Shut-In(2)
182	1606.95	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	muddy oil 30% mud 70% oil	0.84
0.00	300 gas in pipe	0.00

Gas Rates

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

	Dolprim		Lmst fw7>		Carbon Sh		Ss
	Dolsec		shale, grn		shale, red		Lscongl
	Lmst fw<7		shale, gry		Shcol		

ACCESSORIES

MINERAL

- ▲ Chert, dark
- P Pyrite
- △ Chert White
- ▧ Euhed rhombs of dol or i

FOSSIL

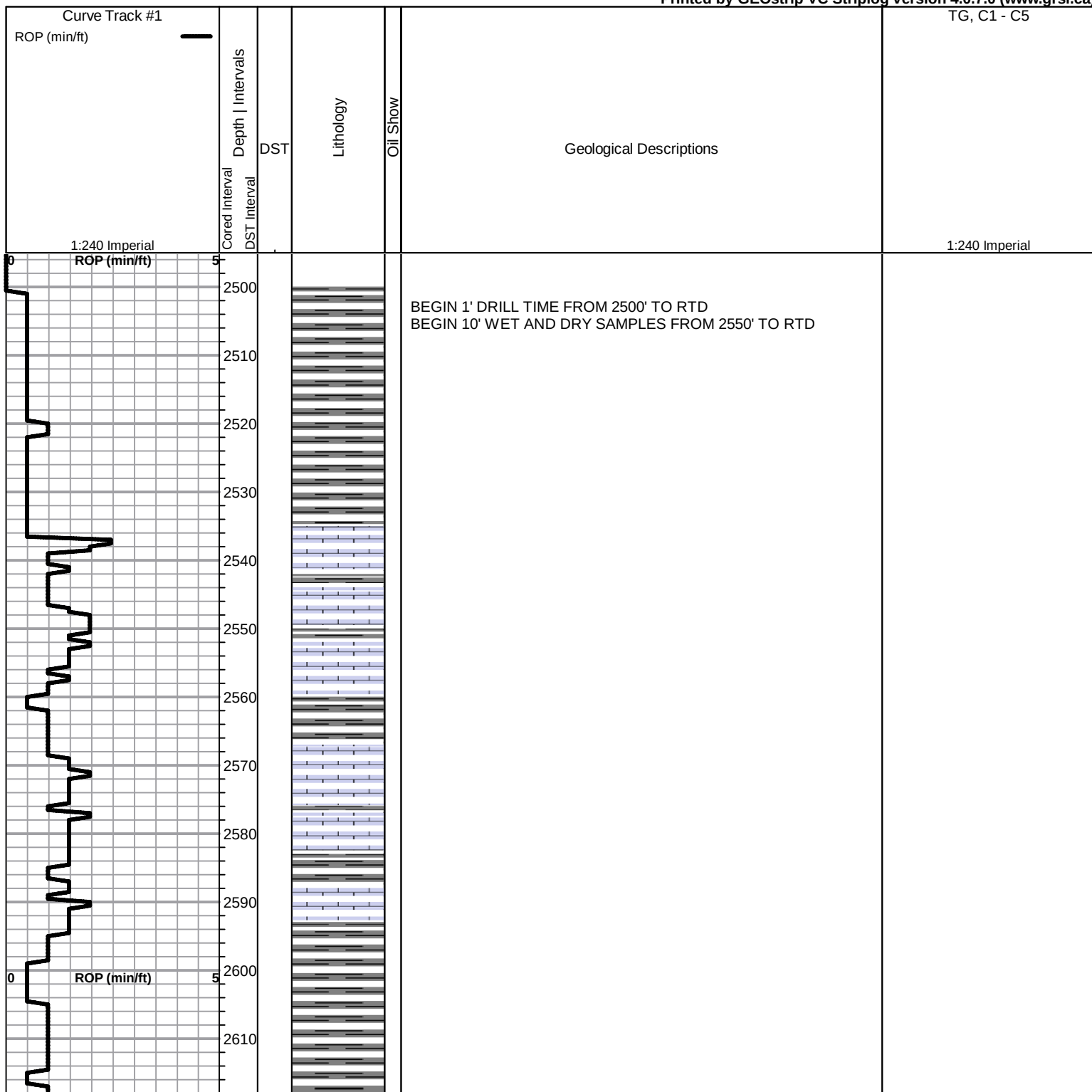
- Oolite
- ⦿ Oomoldic

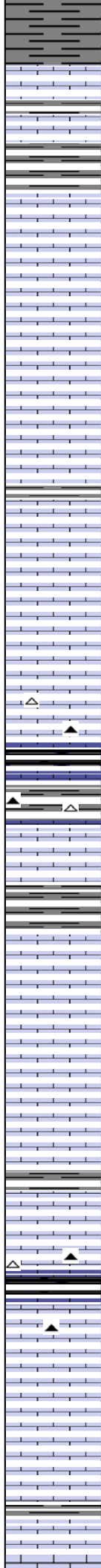
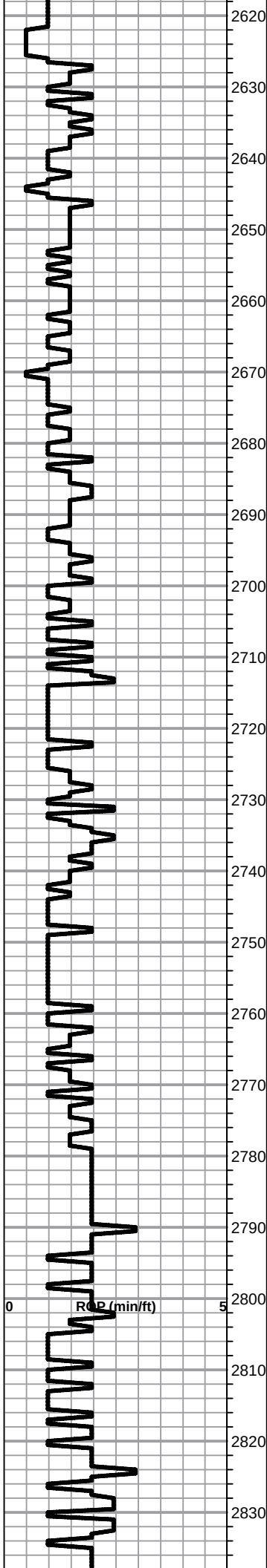
OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core

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





TOPEKA SPL 2626-848 ELog 2627-849

Lime, lt-med brn, fnxln

Shale, med gray, soft blocky

Lime, lt-med brn, fnxln

Lime, lt-med brn-lt gray, fnxln, slightly fossiliferous

Lime, lt-med brn, fnxln, fusulinids

Lime, lt-med brn, fnxln, fusulinids

Lime, lt-med brn-grayish brn, fnxln-granular, slightly fossiliferous

Lime, lt-med brn, fnxln-granular, slightly fossiliferous

Lime, lt-med brn, fnxln-granular

Shale, black carbonaceous

Shale, gray, soft sticky

Lime, med gray, fnxln

Shale, gray, calcareous

Lime, lt-med brn-grayish brn, fnxln-granular, fossiliferous in part

Lime, lt-med brn, fnxln-granular, NS

Lime, crm-lt brn, fnxln-granular, slightly fossiliferous, slight chalk

Lime, lt-med brn, fnxln

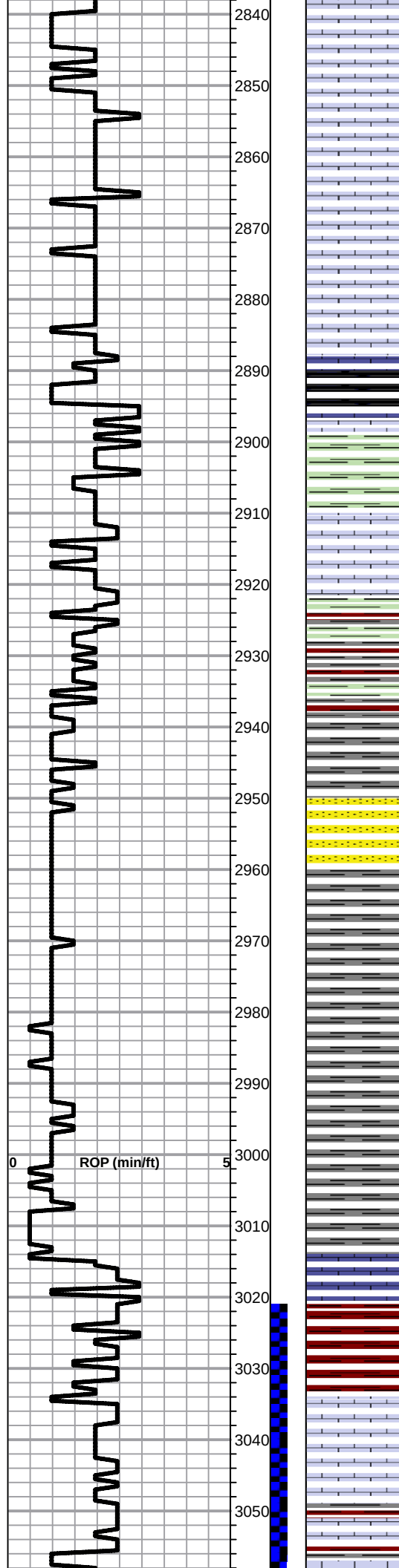
Shale gray to black carbonaceous

Lime, lt-med brn, fnxln-granular in part

Lime, lt-med brn, fnxln-granular

Lime, lt-med brn-grayish brn, fnxln

FINISH DISPLACEMENT



Lime, lt-med brn, mostly fnxln

Lime, lt-med brn, fnxln

Lime, lt-med brn-grayish brn, fnxln

Lime, lt-med brn-grayish brn, fnxln

HEEBNER SHALE SPL 2889-1111 ELog 2890-1112

Shale, black carbonaceous
Lime, med-dark brn, fn-vfxln

Shale, lt gray-lime green, soft

TORONTO SPL 2911-1133 ELog 2911-1133

Lime, lt-med grn, granular, NS, No Odor, No staining

DOUGLAS SHALE SPL 2921-1143 ELog 2922-1144

Shale, red, grn, gray, soft

Shale, mix of color, forms soft mud balls

Shale, lt-med gray, soft blocky

Sandstone, very fine grained, poorly sorted, gritty, bleeding oil globules in part. Sandstone judged too poorly developed to be economic.

Shale,lt-med gray, soft blocky with very thin bedding planes in part

Shale, lt-med gray, soft blocky

Shale, lt-med gray, soft forming mud balls in part

BROWN LIME SPL 3014-1236 ELog 3014-1236

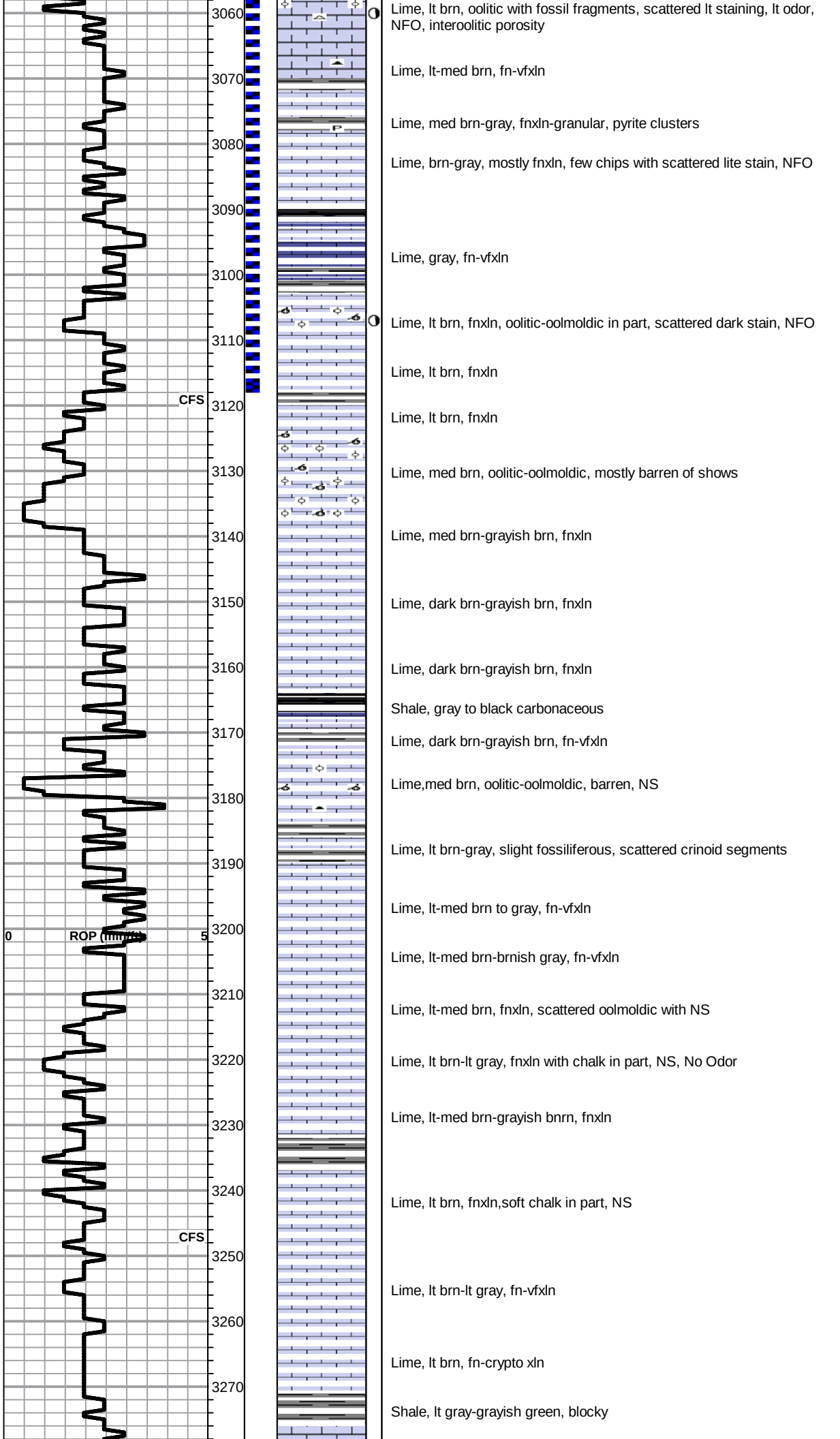
Lime, brn, fn-vfxln, fossiliferous

Shale, mostly reddish brn, soft

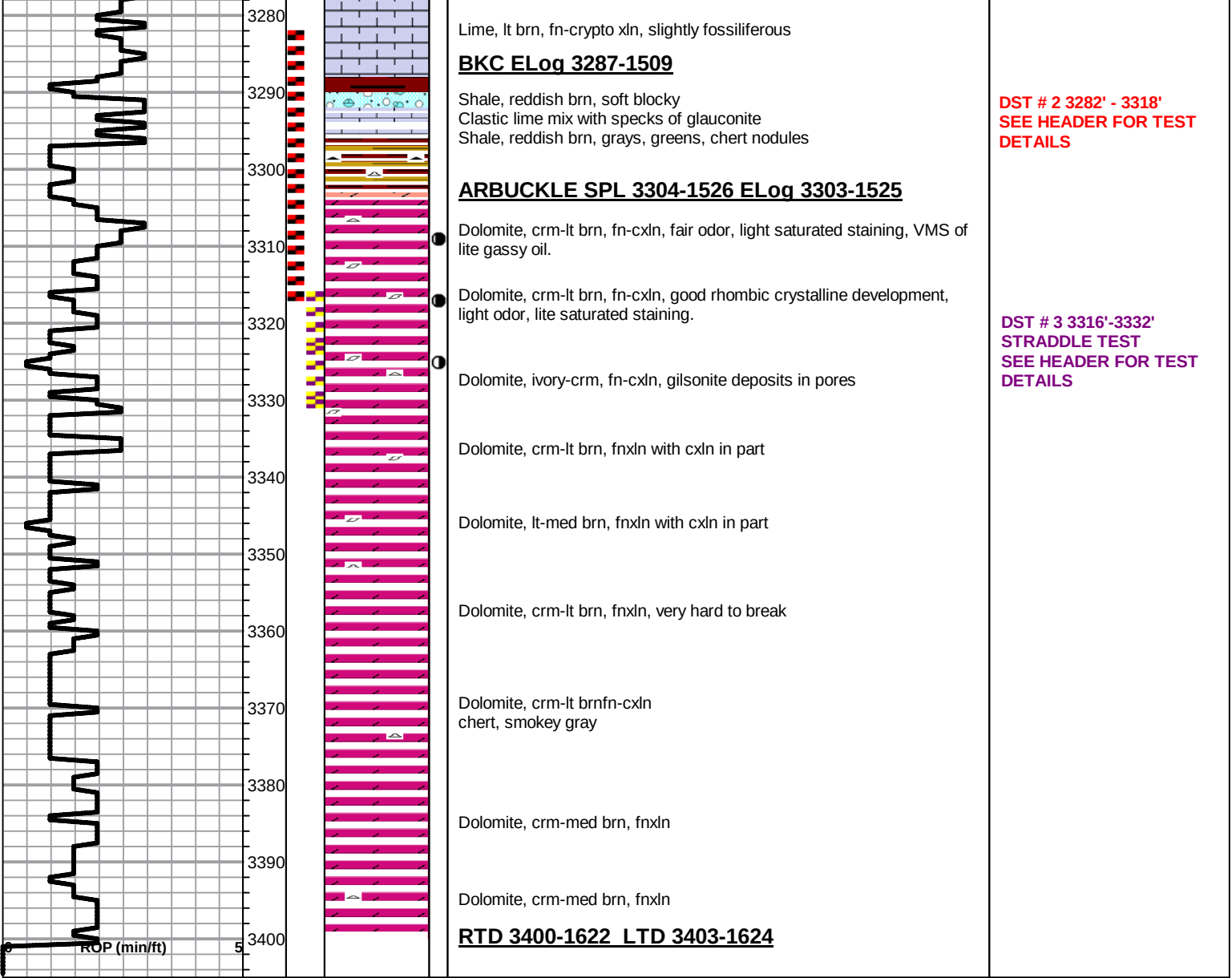
LKC SPL 3034-1256 ELog 3034-1256

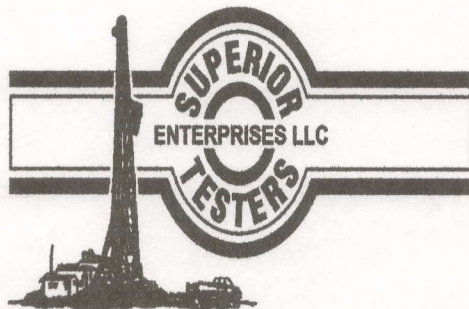
Lime, crm-lt brn, mostly fnxln with slight chalk in part, Lt Odor, NFO with spotty stain. Zone appears poorly developed.

Lime, lt brn, fnxln



[SEE HEADER FOR TEST DETAILS](#)





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development & General Partner**

210 w 22nd Hays KS 67601

ATTN:

Lundgren #c-2

25-19-11 Barton

Start Date: 2012.07.12 @ 11:40:00

End Date: 2012.07.12 @ 16:50:00

Job Ticket #: 17362 DST #: 1

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

Printed: 2012.07.12 @ 17:08:18

Carrie Exploration & Development & General Partnership

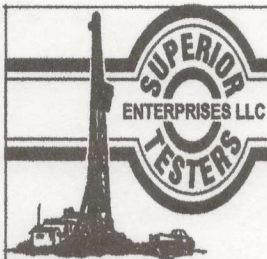
25-19-11 Barton

Lundgren #c-2

DST # 1

Lansing a,b,c,d,e,f

2012.07.12



DRILL STEM TEST REPORT

Carrie Exploration & Development & General Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17362

DST#: 1

ATTN:

Test Start: 2012.07.12 @ 11:40:00

GENERAL INFORMATION:

Formation: Lansing a,b,c,d,e,f,

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:07:30

Time Test Ended: 16:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-80

Interval: 3052.00 ft (KB) To 3150.00 ft (KB) (TVD)

Total Depth: 3150.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1778.00 ft (KB)

1769.00 ft (CF)

KB to GRV/CF: 9.00 ft

Serial #: 6731

Press@RunDepth: 76.69 psia @ ft (KB)

Start Date: 2012.07.12

End Date: 2012.07.12

Capacity: 5000.00 psia

Last Calib.: 2012.07.12

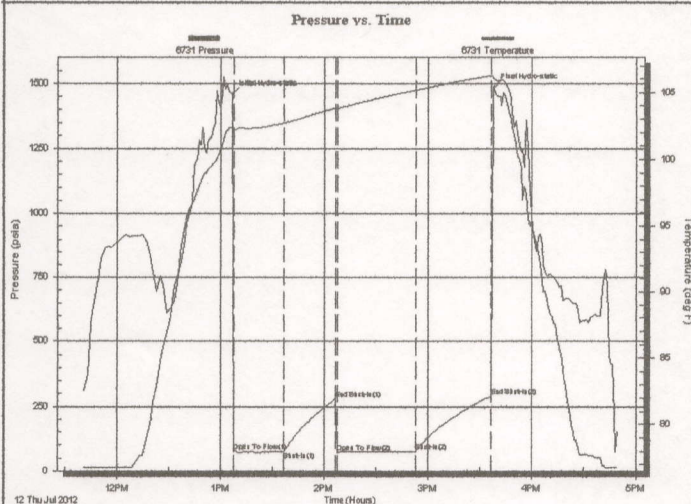
Start Time: 11:40:00

End Time: 16:50:00

Time On Btm: 2012.07.12 @ 13:06:30

Time Off Btm: 2012.07.12 @ 15:38:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 7 minutes
1st Shut-in 30 Minutes-No blow back
2nd Opening 45 Minutes-Strong blow built bottom of bucket in 1 minutes
2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1458.69	102.36	Initial Hydro-static
1	72.98	102.20	Open To Flow (1)
30	73.95	102.71	Shut-In(1)
60	277.69	103.82	End Shut-In(1)
61	72.44	103.80	Open To Flow (2)
106	76.69	105.17	Shut-In(2)
150	290.45	106.25	End Shut-In(2)
152	1486.04	105.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy oil cut mud 5%gas 5%oil 90%mud	0.42
0.00	960 gas in pipe	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17362

DST#: 1

ATTN:

Test Start: 2012.07.12 @ 11:40:00

Tool Information

Drill Pipe:	Length: 3052.00 ft	Diameter: 3.80 inches	Volume: 42.81 bbl	Tool Weight: 1000.00 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: 45000.00 lb
			Total Volume: 42.81 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3052.00 ft			Final 32000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	98.00 ft			
Tool Length:	118.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3037.00	
Hydrolic Tool	5.00			3042.00	
Packer	5.00			3047.00	20.00 Bottom Of Top Packer
Packer	5.00			3052.00	
Anchor	0.00			3052.00	
Change Over Sub	0.75			3052.75	
Drill Pipe	63.50		Outside	3116.25	
Change Over Sub	0.75		Outside	3117.00	
Anchor	28.00			3145.00	
Recorder	1.00		Inside	3146.00	
Recorder	1.00		Outside	3147.00	
Bullnose	3.00			3150.00	98.00 Bottom Packers & Anchor

Total Tool Length: 118.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17362

DST#: 1

ATTN:

Test Start: 2012.07.12 @ 11:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 45.00 sec/qt

Water Loss: 10.80 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gassy oil cut mud 5%gas 5%oil 90%mud	0.421
0.00	960 gas in pipe	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

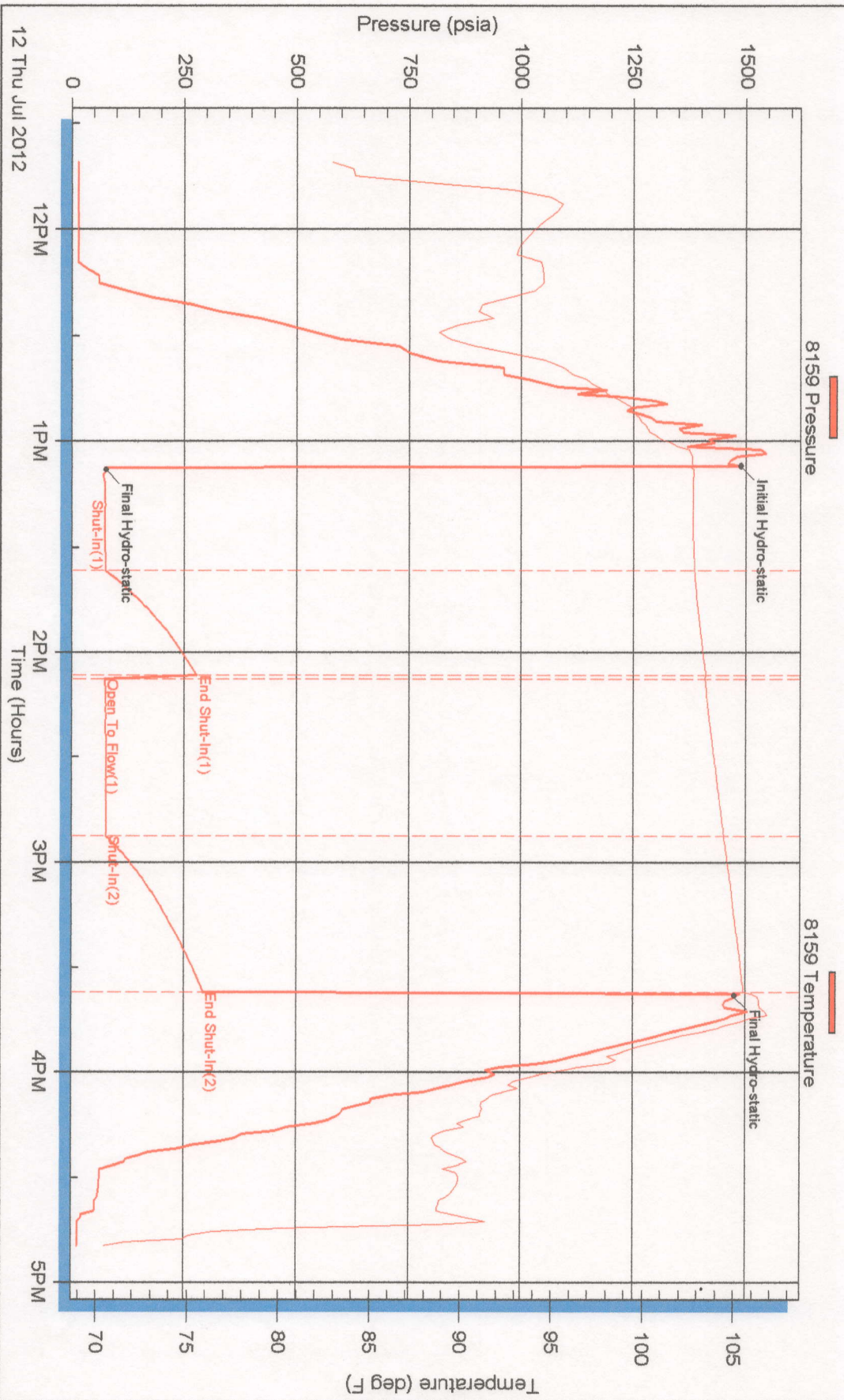
Serial #: 8159

Carrie Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 1

Pressure vs. Time



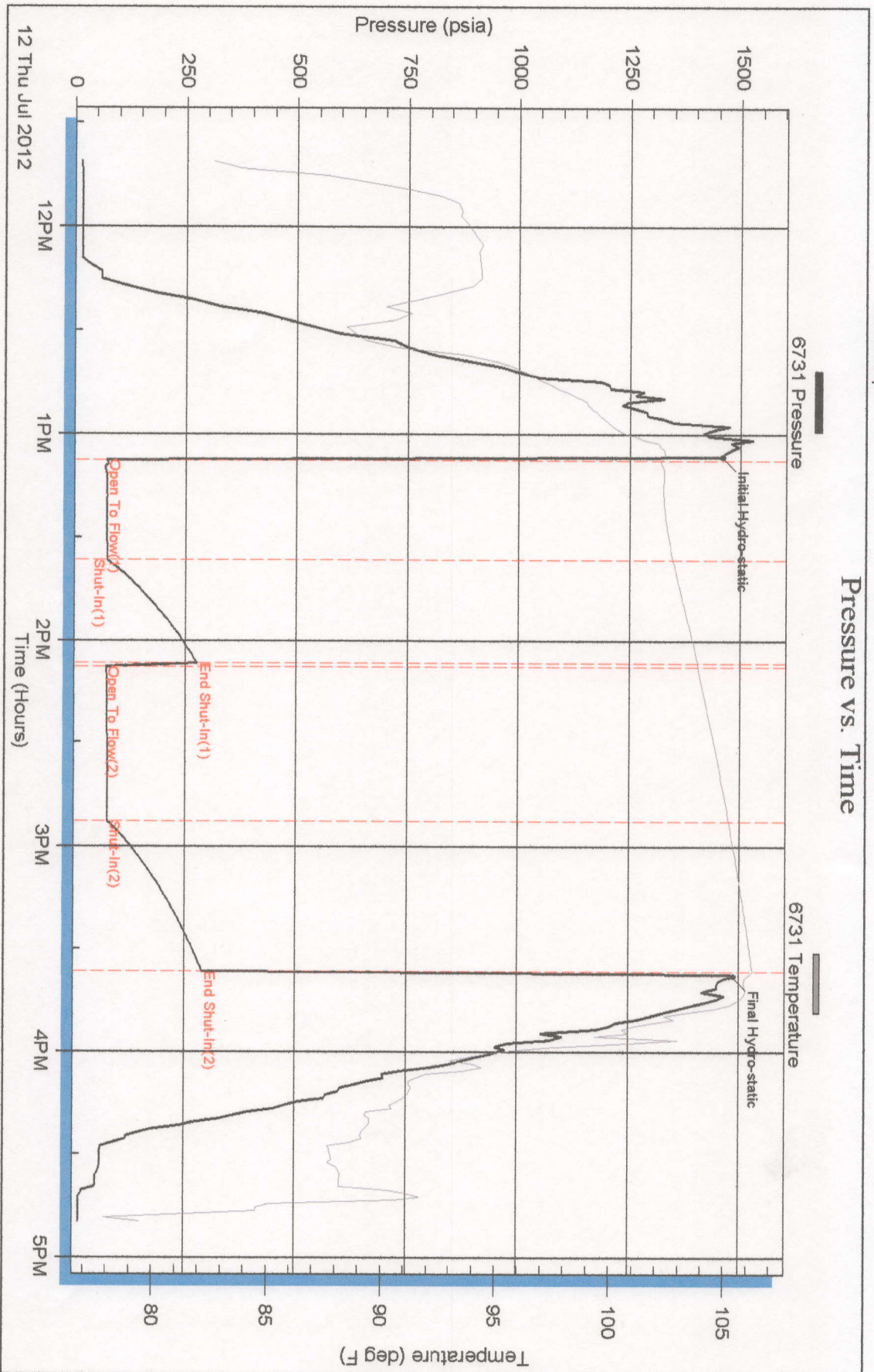
Serial #: 6731

Carrie Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development & General Partner**
210 w 22nd Hays KS 67601

ATTN:

Lundgren #c-2

25-19-11 Barton

Start Date: 2012.07.13 @ 06:58:00

End Date: 2012.07.13 @ 12:30:00

Job Ticket #: 17363

DST #: 2

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

Printed: 2012.07.13 @ 12:45:30

Carrie Exploration & Development & General Partnership

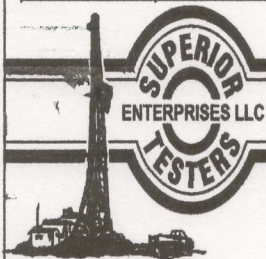
25-19-11 Barton

Lundgren #c-2

DST # 2

Arbuckle

2012.07.13



DRILL STEM TEST REPORT

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17363

DST#: 2

ATTN:

Test Start: 2012.07.13 @ 06:58:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:14:30

Time Test Ended: 12:30:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Great Bend-70

Interval: **3282.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Total Depth: 3318.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1778.00 ft (KB)

1769.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8159

Press@RunDepth: 486.03 psia @ ft (KB)

Start Date: 2012.07.13

End Date:

2012.07.13

Start Time: 06:58:00

End Time:

12:29:30

Capacity: 5000.00 psia

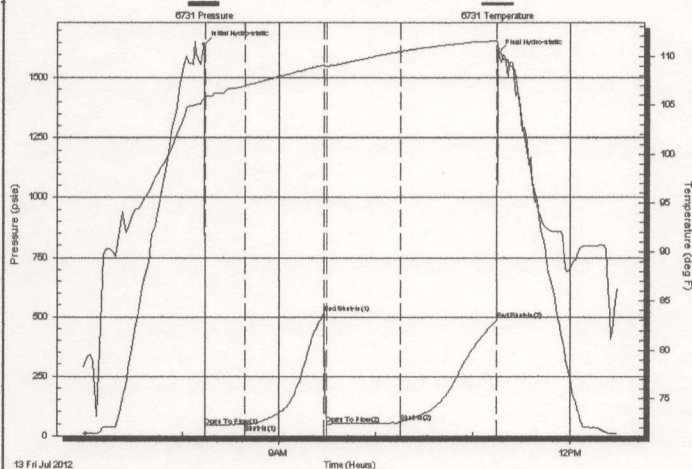
Last Calib.: 2012.07.13

Time On Btm: 2012.07.13 @ 08:13:30

Time Off Btm: 2012.07.13 @ 11:15:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 8 inches into water in 30 minutes
1st Shut-in 45 Minutes-No blow back
2nd Opening 45 Minutes-Fair blow built bottom of bucket in 23 minutes
2nd Shut-in 60 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

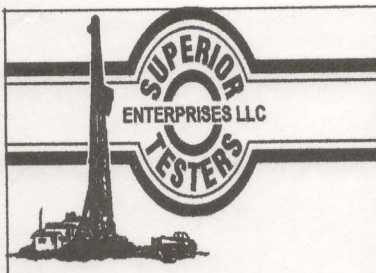
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1652.68	106.40	Initial Hydro-static
1	42.38	106.62	Open To Flow (1)
27	47.85	106.81	Shut-In (1)
75	517.43	109.06	End Shut-In (1)
76	45.84	108.93	Open To Flow (2)
120	54.48	110.67	Shut-In (2)
181	486.03	112.18	End Shut-In (2)
182	1615.29	112.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	oil mud cut gas 30% mud 30% oil 40% gas	0.49
0.00	200 feet gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17363

DST#: 2

ATTN:

Test Start: 2012.07.13 @ 06:58:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 8.60 in³
Resistivity: ohm.m
Salinity: 5000.00 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
35.00	oil mud cut gas 30% mud 30% oil 40% gas	0.491
0.00	200 feet gas in pipe	0.000

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

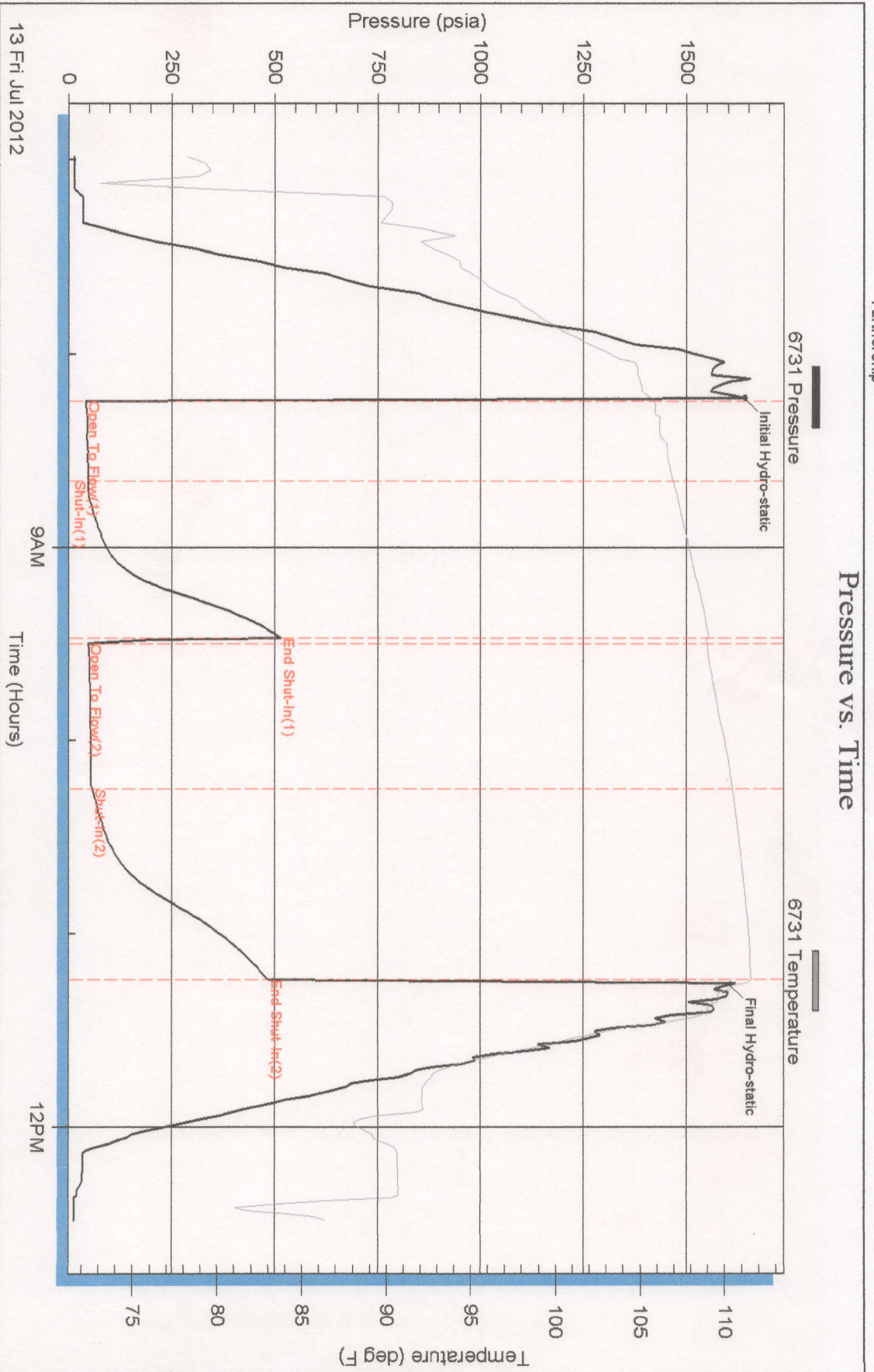
Serial #: 6731

Carte Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 2

Pressure vs. Time



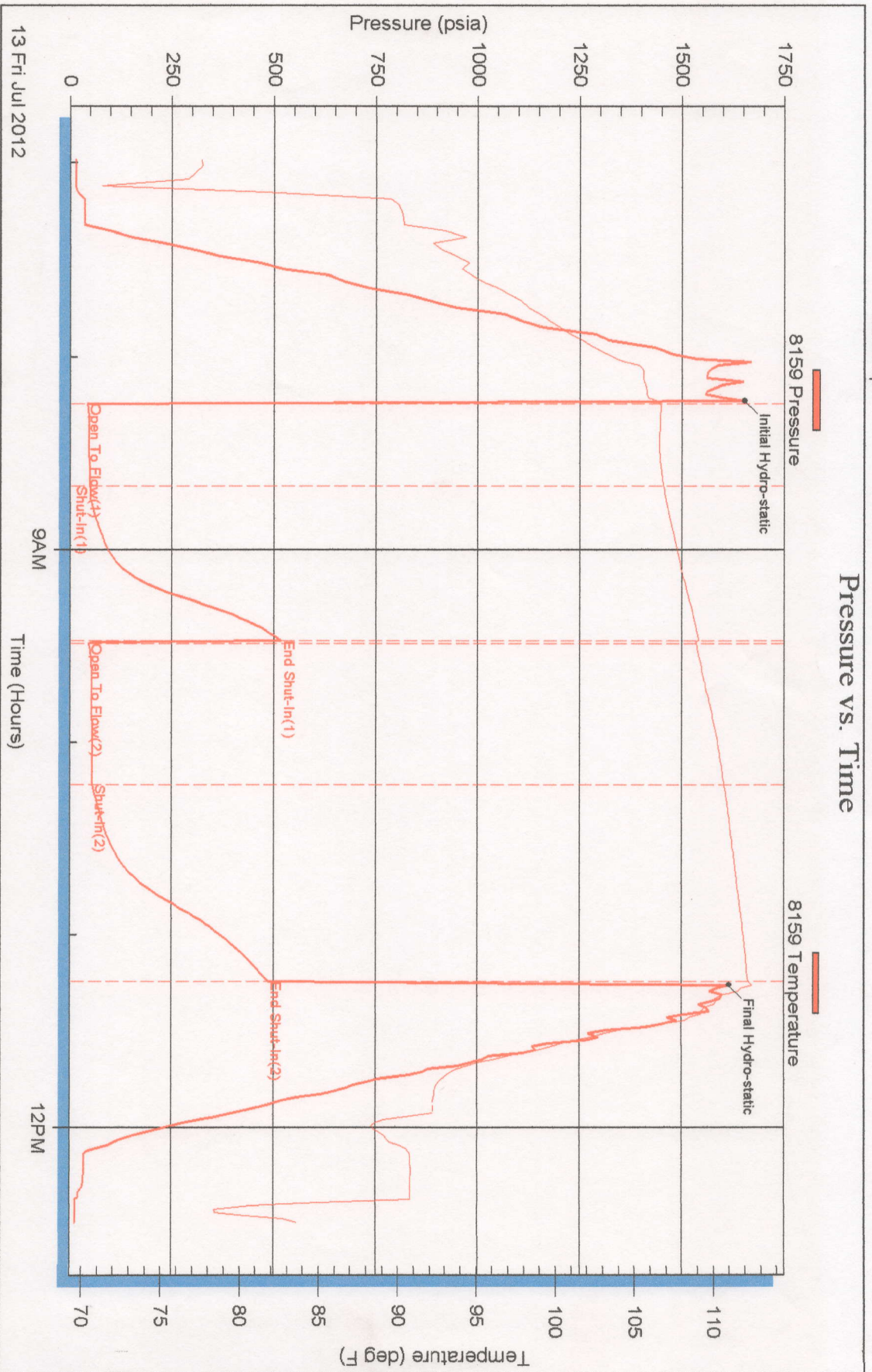
Serial #: 8159

Carrie Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 2

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development & General Partner**
210 w 22nd Hays KS 67601

ATTN:

Lundgren #c-2

25-19-11 Barton

Start Date: 2012.07.14 @ 01:00:00

End Date: 2012.07.14 @ 06:35:00

Job Ticket #: 17364 DST #: 3

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

Printed: 2012.07.14 @ 06:54:45

Carrie Exploration & Development & General Partnership

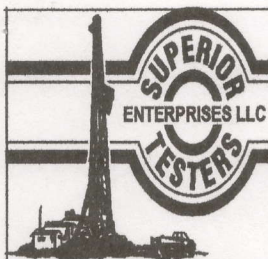
25-19-11 Barton

Lundgren #c-2

DST # 3

Arbuckle

2012.07.14



DRILL STEM TEST REPORT

TOOL DIAGRAM

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17364

DST#: 3

ATTN:

Test Start: 2012.07.14 @ 01:00:00

Tool Information

Drill Pipe:	Length: 3313.00 ft	Diameter: 3.80 inches	Volume: 46.47 bbl	Tool Weight: 1000.00 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: 40000.00 lb
			Total Volume: 46.47 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3316.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	3332.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	114.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			3301.00	
HYD S.I. Tool	5.00			3306.00	
Packer	5.00			3311.00	20.00 Bottom Of Top Packer
Packer	5.00			3316.00	
Anchor	16.00			3332.00	
Recorder	0.00			3332.00	
Blank Off Sub	0.00			3332.00	16.00 Tool Interval
Packer	5.00			3337.00	
Tail pipe	70.00			3407.00	
Recorder	0.00			3407.00	
Bullnose	3.00			3410.00	78.00 Bottom Packers & Anchor

Total Tool Length: 114.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration & Development & General
Partnership
210 w 22nd Hays KS 67601

25-19-11 Barton

Lundgren #c-2

Job Ticket: 17364

DST#: 3

ATTN:

Test Start: 2012.07.14 @ 01:00:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: lb/gal
Viscosity: 57.00 sec/qt
Water Loss: 8.50 in³
Resistivity: ohm.m
Salinity: 5000.00 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
60.00	muddy oil 30% mud 70% oil	0.842
0.00	300 gas in pipe	0.000

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

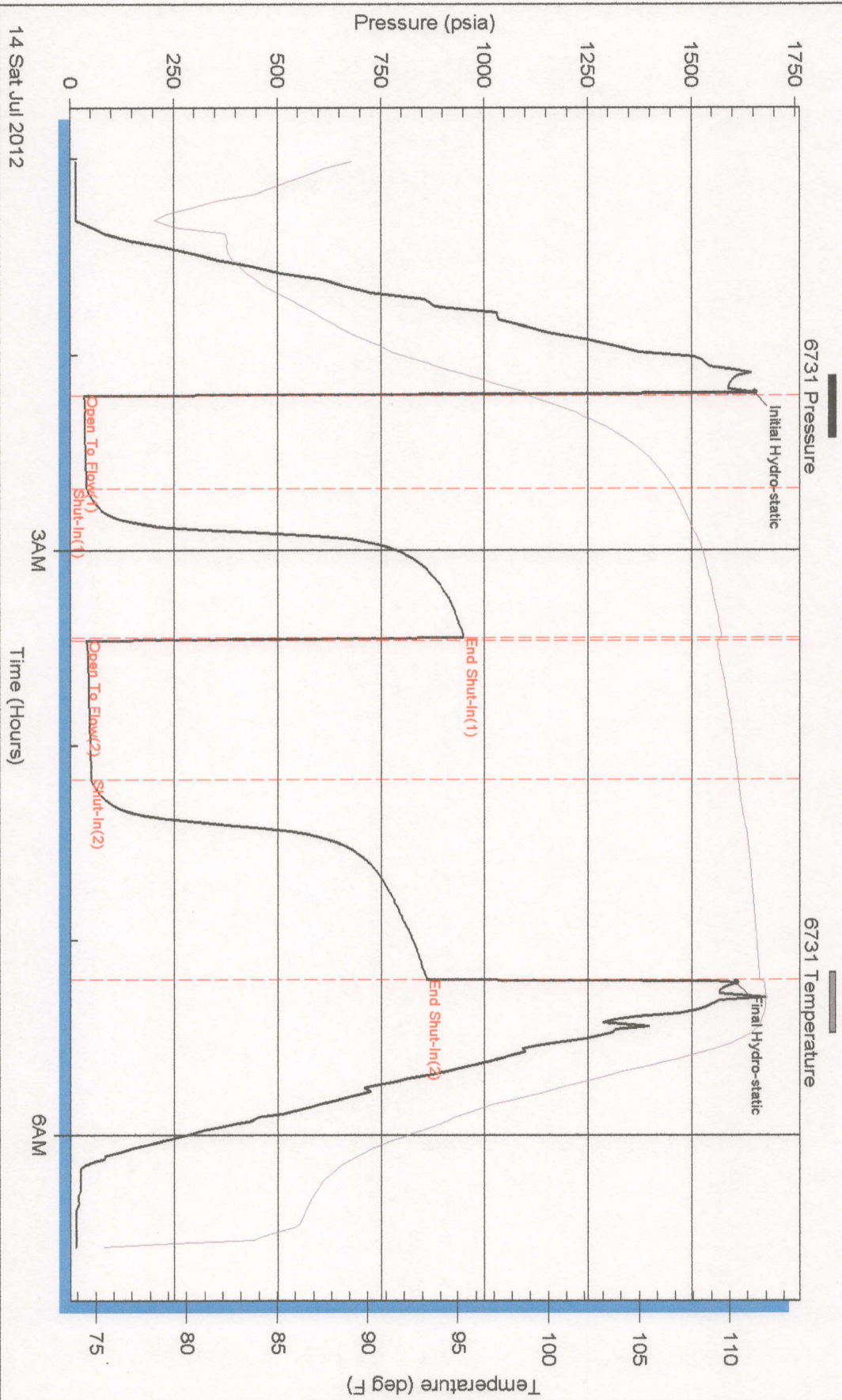
Serial #: 6731

Carrie Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 3

Pressure vs. Time

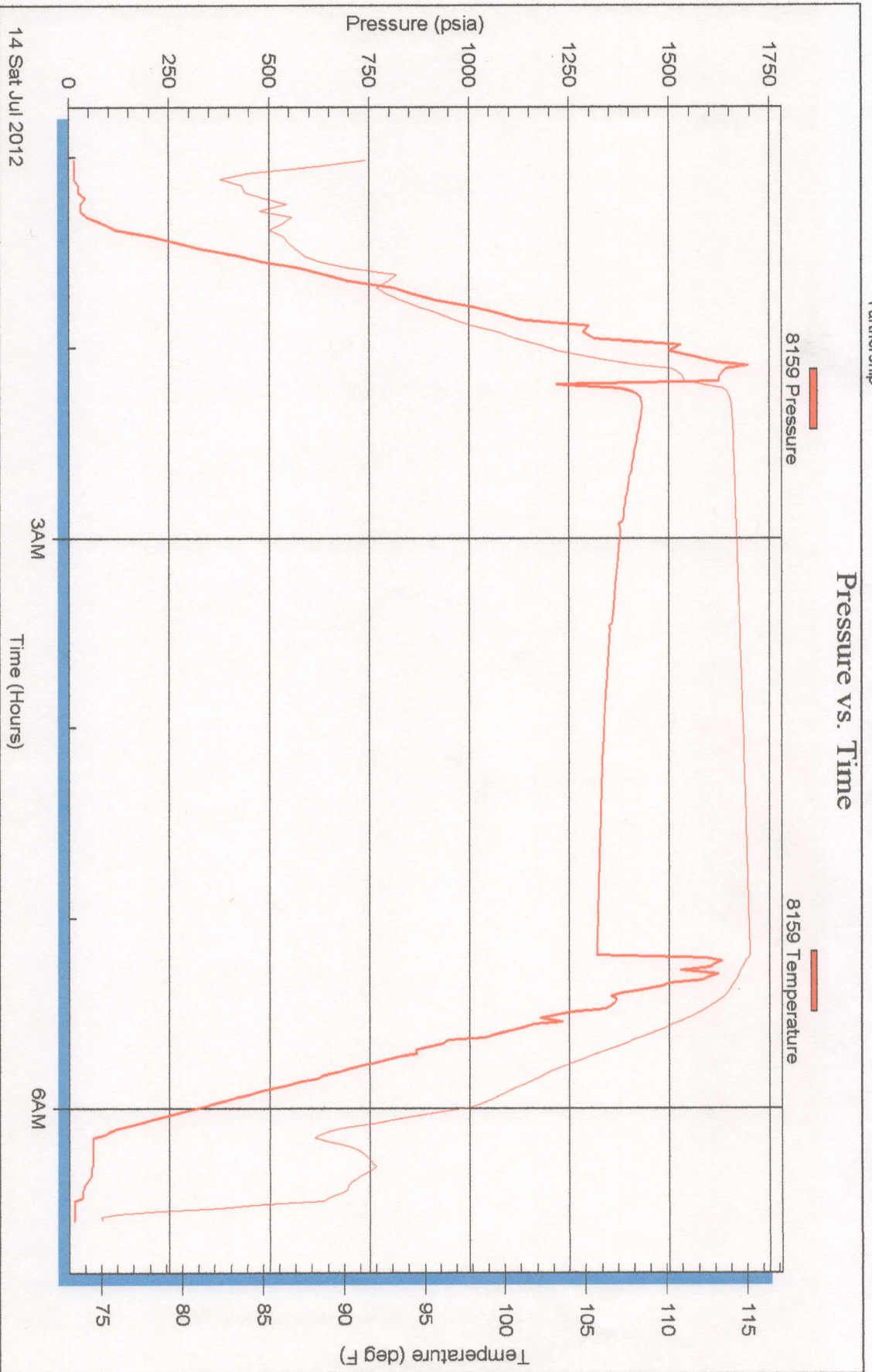


Serial #: 8159

Carrie Exploration & Development & General Partnership

Lundgren #c-2

DST Test Number: 3

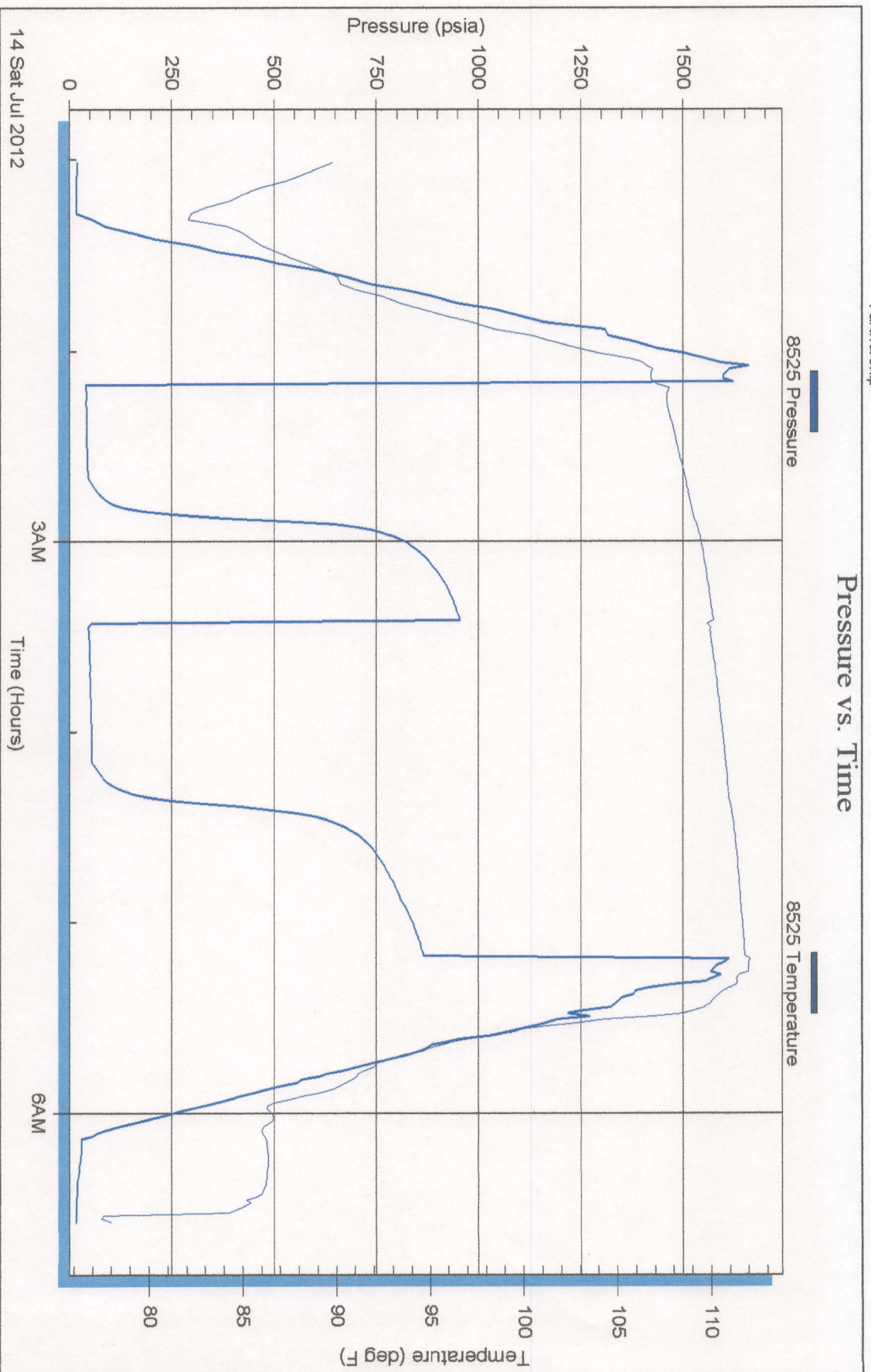


Serial #: 8525

Carrie Exploration & Development & General
Partnership

Lundgren #c-2

DST Test Number: 3





PO Box 93999
Southlake, TX 76092

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

INVOICE

Invoice Number: 131903

Invoice Date: Jul 9, 2012

Page: 1

Bill To:

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

*pd
ck# 3224
7-23-12*

C



Customer ID	Well Name/# or Customer P.O.	Payment Terms	
Carrie	Lundgren C #2	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jul 9, 2012	8/8/12

Quantity	Item	Description	Unit Price	Amount
175.00	MAT	Class A Common	16.25	2,843.75
3.00	MAT	Gel	21.25	63.75
6.00	MAT	Chloride	58.20	349.20
188.79	SER	Cubic Feet	2.10	396.35
146.53	SER	Ton Mileage	2.35	344.36
1.00	SER	Surface	1,125.00	1,125.00
17.00	SER	Pump Truck Mileage	7.00	119.00
17.00	SER	Light Vehicle Mileage	4.00	68.00
1.00	CEMENTER	Wayne Davis		
1.00	OPER ASSIST	Marlyn Spangenberg		

*Cement
Surface*

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

\$ 1327.35

ONLY IF PAID ON OR BEFORE
Aug 3, 2012

Subtotal	5,309.41
Sales Tax	237.74
Total Invoice Amount	5,547.15
Payment/Credit Applied	
TOTAL	5,547.15

*after
discount 4,219.80*



ALLIED OIL & GAS SERVICES, LLC 053708

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
G-cat Bend

DATE <u>7-9-12</u>	SEC. <u>25</u>	TWP. <u>19</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>430 pm</u>	JOB FINISH <u>500 pm</u>
LEASE <u>Lundgren</u> WELL # <u>C-2</u>				LOCATION <u>Ellenwood East To Goline</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)				Notes <u>To U-RD 3/4 west south into</u>		<u>7.3</u>	

CONTRACTOR Southwind OWNER Carrie Exploration

TYPE OF JOB to surface

HOLE SIZE 12 1/4 T.D. 259

CASING SIZE 8 3/4 DEPTH 261

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT BBLS

EQUIPMENT

PUMP TRUCK CEMENTER wayne 1

224 HELPER wayne

BULK TRUCK

482/188 DRIVER martin 3

BULK TRUCK

DRIVER

REMARKS:

See Job

Log

CHARGE TO: Carrie Exploration

STREET

CITY STATE ZIP

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 William Sanders

SIGNATURE William Sanders

CEMENT

AMOUNT ORDERED 1755X Class A + 380

+ 29661

COMMON	<u>175</u>	@	<u>16.25</u>	<u>2.843.75</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		

HANDLING	<u>188.74</u>	@	<u>2.10</u>	<u>396.35</u>
MILEAGE	<u>8.62 x 17 x</u>	@	<u>2.35</u>	<u>344.35</u>
				<u>146.53</u>
TOTAL				<u>3.997.41</u>

SERVICE

DEPTH OF JOB	<u>259</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 17</u>	@	<u>7.00</u> <u>119.00</u>
MANIFOLD		@	
	<u>Hum 17</u>	@	<u>4.00</u> <u>68.00</u>

TOTAL 1312.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

SALES TAX (If Any) 232.73

TOTAL CHARGES 5.309.41

DISCOUNT 1.327.35 IF PAID IN 30 DAYS

3.982.05

ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999
Southlake, TX 76092

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

Bill To:

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

INVOICE

Invoice Number: 131917
Invoice Date: Jul 14, 2012
Page: 1



pd
ck# 3224
7-23-12

Customer ID		Well Name/# or Customer P.O.		Payment Terms	
Carrie		Lundgren C #2		Net 30 Days	
Job Location		Camp Location		Service Date	Due Date
KS2-03		Great Bend		Jul 14, 2012	8/13/12

Quantity	Item	Description	Unit Price	Amount
99.00	MAT	Class A Common	16.25	1,608.75
66.00	MAT	Pozmix	8.50	561.00
6.00	MAT	Gel	21.25	127.50
41.00	MAT	Flo Seal	2.70	110.70
177.73	SER	Cubic Feet	2.10	373.23
125.80	SER	Ton Mileage	2.35	295.63
1.00	SER	Rotary Plug	1,250.00	1,250.00
17.00	SER	Pump Truck Mileage	7.00	119.00
17.00	SER	Light Vehicle Mileage	4.00	68.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Kevin Eddy		
1.00	OPER ASSIST	John Campbell		

pd
3224

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

\$ 1128.45

ONLY IF PAID ON OR BEFORE
Aug 8, 2012

Subtotal	4,513.81
Sales Tax	329.51
Total Invoice Amount	4,843.32
Payment/Credit Applied	
TOTAL	4,843.32

after 3 714.87

ALLIED OIL & GAS SERVICES, LLC 053675

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Overland, KS

DATE <u>7-14-12</u>	SEC <u>25</u>	TWP. <u>19</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Landgreen</u>	WELL# <u>C-2</u>	LOCATION <u>Ellinwood, KS EAST to</u>			COUNTY <u>Darton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>Co. line North, 1/2 W, S1/5</u>			<u>2-03</u>	<u>7.3</u>	

CONTRACTOR Southwind, Rightz OWNER Carrie Exploration

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2" T.D. 3700

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Greg R</u>
# <u>366</u>	HELPER	<u>Kevin E</u>
BULK TRUCK		
# <u>402-188</u>	DRIVER	<u>John C</u>
BULK TRUCK		
# _____	DRIVER	<u>Campbell</u>

REMARKS:

1st plug mix 25 sks @ 3285'
2nd plug mix 25 sks @ 490'
3rd plug mix 60 sks @ 510'
4th plug mix 100 sks @ 40'
with plug Rothok
MIX 30 sks w Rothok
MIX 15 sks w mouse hole
Plugged @ 100 pms

CHARGE TO: Carrie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

CEMENT AMOUNT ORDERED 165 sks 60/40 per
1/2 gal 1/4 Josen

COMMON	<u>99</u>	@ <u>16.25</u>	<u>1608.75</u>
POZ MIX	<u>66</u>	@ <u>8.50</u>	<u>561.00</u>
GEL	<u>6</u>	@ <u>21.25</u>	<u>127.50</u>
CHLORIDE		@	
ASC		@	
<u>Phasen</u>	<u>41</u>	@ <u>2.70</u>	<u>110.70</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>177.13</u>	@ <u>2.10</u>	<u>373.23</u>
MILEAGE	<u>7.4 x 174</u>	@ <u>2.35</u>	<u>295.43</u>
	<u>125.80</u>		
TOTAL			<u>3076.31</u>

SERVICE

DEPTH OF JOB	<u>3285</u>
PUMP TRUCK CHARGE	<u>1250.00</u>
EXTRA FOOTAGE	@
MILEAGE	<u>HUM 17 @ 7.00 119.00</u>
MANIFOLD	@
<u>LUM 17</u>	@ <u>4.00 68.00</u>
	@

TOTAL 1437.00

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 William Sanders

SIGNATURE William Sanders

Thank You

SALES TAX (If Any) 329.50

TOTAL CHARGES 4573.81

DISCOUNT 35% 1128.45 IF PAID IN 30 DAYS

3385.35