CORRECTION #1

Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1093280

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 # 31652
Name: Norstar Petroleum, Inc.
Address 1: 88 INVERNESS CIR E. Unit F104
Address 2:
City: ENGLEWOOD State: CO Zip: 80112 + __ __ __ __
Contact Person: Brady Pfeiffer
Phone: (303) 925-0696
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: M. Bradford Rine
Purchaser: N/A

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 #:

7/21/2012	7/27/2012	7/29/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-193-20857-00-00
Spot Description:
SW NE NE SW Sec. 30 Twp. 10 S. R. 34 ☐ East ☑ West
2285 Feet from ☐ North / ☑ South Line of Section
2308 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Thomas
Lease Name: GL Kern Trust Well #: 1-30
Field Name:
Producing Formation: N/A
Elevation: Ground: 3241 Kelly Bushing: 3246
Total Vertical Depth: 4860 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 6000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 09/10/2012
☑ **Confidential Release Date:** 09/10/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 09/11/2012

CORRECTION #1
Page Two

[redacted]

1093280

Operator Name: Norstar Petroleum, Inc. Lease Name: GL Kern Trust Well #: 1-30

Sec. 30 Twp. 10 S. R. 34 ☐ East ☑ West County: Thomas

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Microlog
Dual Induction
Neutron Porosity

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

Name: Attached Top: Attached Datum: Attached

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
Surface	12.25	8.625	23	262	Common	165	2% gel, 3% cc

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	-			
	-			

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 *(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. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* P&A

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	GL Kern Trust 1-30
Doc ID	1093280

Tops

Name	Top	Datum
Anyhdrite	2746	+504
Topeka	3975	-722
Heebner	4127	-874
Toronto	4150	-895
Lansing	4170	-915
Stark Shale	4395	-1140
Pawnee	4586	-1334
Ft. Scott	4617	-1365
Cherokee Shale	4638	-1384
Johnson	4716	-1463
Morrow	4752	-1498
Mississippi	4832	-1542

Summary of Changes

Lease Name and Number: GL Kern Trust 1-30

API/Permit #: 15-193-20857-00-00

Doc ID: 1093280

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1093142	../../kcc/detail/operatorEditDetail.cfm?docID=1093280
Well Type	OIL	DH

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1093142

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

OPERATOR: License # 31652
Name: Norstar Petroleum, Inc.
Address 1: 88 INVERNESS CIR E. Unit F104
Address 2:
City: ENGLEWOOD State: CO Zip: 80112 + __ __ __ __
Contact Person: Brady Pfeiffer
Phone: (303) 925-0696
CONTRACTOR: License # 33575
Name: WW Drilling, LLC
Wellsite Geologist: M. Bradford Rine
Purchaser: N/A

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

7/21/2012	7/27/2012	7/29/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-193-20857-00-00
Spot Description:
SW - NE - NE - SW Sec. 30 Twp. 10 S. R. 34 [ ] East [x] West
2285 Feet from [ ] North / [x] South Line of Section
2308 Feet from [ ] East / [x] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [ ] SE [x] SW
County: Thomas
Lease Name: GL Kern Trust Well #: 1-30
Field Name:
Producing Formation: N/A
Elevation: Ground: 3241 Kelly Bushing: 3246
Total Depth: 4860 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 Feet
Multiple Stage Cementing Collar Used? [ ] Yes [x] 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: 6000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. [ ] East [ ] West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- [x] **Letter of Confidentiality Received**
  Date: 09/10/2012
- [ ] **Confidential Release Date:**
- [x] **Wireline Log Received**
- [ ] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** NAOMI JAMES **Date:** 09/11/2012

Side Two

1093142

Operator Name: Norstar Petroleum, Inc. Lease Name: GL Kern Trust Well #: 1-30

Sec. 30 Twp. 10 S. R. 34 ☐ East ☑ West County: Thomas

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:

Microlog
Dual Induction
Neutron Porosity

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

Name	Top	Datum
Attached	Attached	Attached

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
Surface	12.25	8.625	23	262	Common	165	2% gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:
☐ Perforate
☐ Protect Casing
☐ Plug Back TD
☐ Plug Off Zone

Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
-			
-			

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. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☑ Other *(Specify)* P&A

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	GL Kern Trust 1-30
Doc ID	1093142

Tops

Name	Top	Datum
Anyhdrite	2746	+504
Topeka	3975	-722
Heebner	4127	-874
Toronto	4150	-895
Lansing	4170	-915
Stark Shale	4395	-1140
Pawnee	4586	-1334
Ft. Scott	4617	-1365
Cherokee Shale	4638	-1384
Johnson	4716	-1463
Morrow	4752	-1498
Mississippi	4832	-1542

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

Kansas
Corporation Commission

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

September 10, 2012

Brady Pfeiffer
Norstar Petroleum, Inc.
88 INVERNESS CIR E. Unit F104
ENGLEWOOD, CO 80112

Re: ACO1
API 15-193-20857-00-00
GL Kern Trust 1-30
SW/4 Sec.30-10S-34W
Thomas County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Brady Pfeiffer

ALLIED OIL & GAS SERVICES, LLC 056712

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley

DATE 7-21-12	SEC. 30	TWP. 10	RANGE 34	CALLED OUT	ON LOCATION	JOB START 7:00 pm	JOB FINISH 7:30 pm
LEASE Klein Trust	WELL # 1-30		LOCATION Page City 3N 1½W			COUNTY Thomas	STATE KS
OLD OR NEW (Circle one)			1½N Ets into				

CONTRACTOR L & W 8
TYPE OF JOB Surface
HOLE SIZE 12¼ T.D. 263'
CASING SIZE 8 5/8 DEPTH 263'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 15.29 BBL

OWNER Same

CEMENT
AMOUNT ORDERED 165 sks com 3%cc 2%gel ½# flo-seal

EQUIPMENT

PUMP TRUCK CEMENTER Andrew
431 HELPER Dane
BULK TRUCK
404 DRIVER Jeremy
BULK TRUCK
DRIVER

COMMON	165 sks	@ 16.25	2681.25
POZMIX		@	
GEL	3 sks	@ 21.25	63.75
CHLORIDE	6 sks	@ 58.20	349.20
ASC		@	
		@	
Flo-seal	41#	@ 2.70	110.70
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	181.12 cu/ft	@ 2.10	380.45
MILEAGE	2.35 Ton/mile 8 x 23 mi		422.02
		TOTAL	4007.37

REMARKS:

Cement Did circulate

thank you

SERVICE

DEPTH OF JOB 263'
PUMP TRUCK CHARGE 1125.00

EXTRA FOOTAGE		@	
MILEAGE	22 miles	@ 7.00	154.00
MANIFOLD		@	
Light vehicle		@ 4.00	88.00
		@	
		TOTAL	1367.00

CHARGE TO: Norstar Petroleum
STREET
CITY STATE ZIP

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.

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME
SIGNATURE

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 37009
LOCATION Oakley, KS
FOREMAN Miles Shaw
Joe Blanchard

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
7-28-12		GL Kerns Trust #1-30	30	10S	34W	Thomas

CUSTOMER: Murfin

MAILING ADDRESS:

CITY | STATE | ZIP CODE:

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Joe B		
460			

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 2750 CASING SIZE & WEIGHT
CASING DEPTH ✓ DRILL PIPE TUBING OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting and rig up on WW drilling #8 Plugs as ordered
1st 25 SKS @ 2750
2nd 100 SKS @ 1740
3rd 40 SKS @ 310 205 SKS 60/40 poz Cement 4%gel 1/4# flo seal
Top 40' 10 SKS
RH 30 SKS

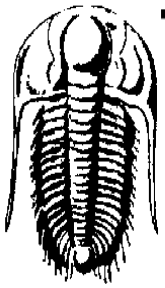
Thanks Miles + Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1325.00	1325.00
5406	20	MILEAGE	5.00	100.00
5407	8.81 ±	Ton mileage delivery min	410.00	410.00
1131	205 SKS	60/40 Poz Cement mix	15.10	3095.50
1118B	705 #	Bentonite gel	.25	176.25
1107	51.25 #	Flo Seal	2.82	144.52
4432	1	8 5/8 Wooden Plug	96.00	96.00
			Subtotal	5347.27
			less 10% discount	534.72
			Subtotal	4812.55
			SALES TAX	
			ESTIMATED TOTAL	

Ravin 3737

AUTHORIZTION 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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum, Inc.**

88 Inverness Cir. E. Unit F 104
Englewood CO 80112

ATTN: Brad Rine

GL Kern Trust #1-30

30-10s-34w Thomas KS

Start Date: 2012.07.27 @ 10:50:00
End Date: 2012.07.27 @ 16:51:30
Job Ticket #: 47390 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.09 @ 11:55:13

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

88 Inverness Cir. E. Unit F 104
Englewood CO 80112

ATTN: Brad Rine

30-10s-34w Thomas KS

GL Kern Trust #1-30

Job Ticket: 47390 **DST#: 1**

Test Start: 2012.07.27 @ 10:50:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:05:00
Time Test Ended: 16:51:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Kreutzer Jr.
Unit No: 61

Interval: 4660.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

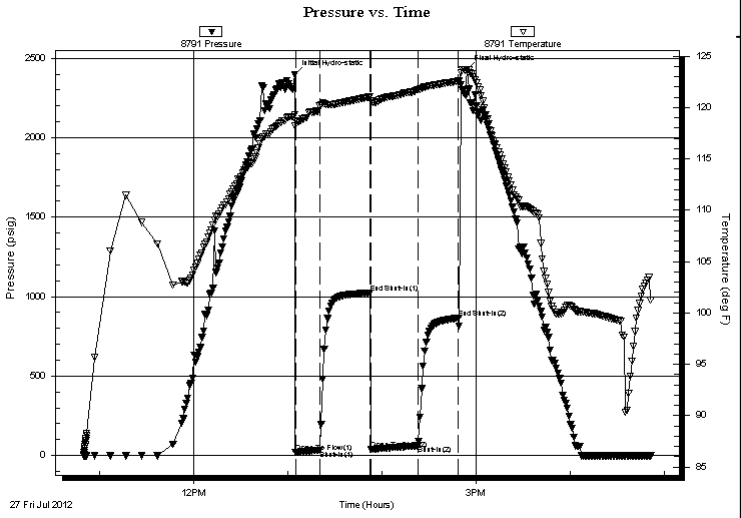
Reference Elevations: 3246.00 ft (KB)
3241.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8791 **Inside**

Press@RunDepth: 61.75 psig @ 4663.00 ft (KB)
Start Date: 2012.07.27 End Date: 2012.07.27
Start Time: 10:50:05 End Time: 16:51:29

Capacity: 8000.00 psig
Last Calib.: 2012.07.27
Time On Btm: 2012.07.27 @ 13:04:30
Time Off Btm: 2012.07.27 @ 14:54:30

TEST COMMENT: IF: Weak surface blow over 15 mins.
ISI: No blow back
FF: No blow
FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2397.36	119.29	Initial Hydro-static
1	17.97	118.25	Open To Flow (1)
16	33.71	120.14	Shut-In(1)
48	1022.97	121.04	End Shut-In(1)
49	37.30	120.67	Open To Flow (2)
79	61.75	121.73	Shut-In(2)
105	865.15	122.57	End Shut-In(2)
110	2429.79	123.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud-100%m	0.37

Gas Rates

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

DRILL STEM TEST REPORT

Norstar Petroleum, Inc.

88 Inverness Cir. E. Unit F 104
Englewood CO 80112

ATTN: Brad Rine

30-10s-34w Thomas KS

GL Kern Trust #1-30

Job Ticket: 47390 **DST#: 1**

Test Start: 2012.07.27 @ 10:50:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:05:00
Time Test Ended: 16:51:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Chuck Kreutzer Jr.
Unit No: 61

Interval: 4660.00 ft (KB) To 4750.00 ft (KB) (TVD)
Total Depth: 4750.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

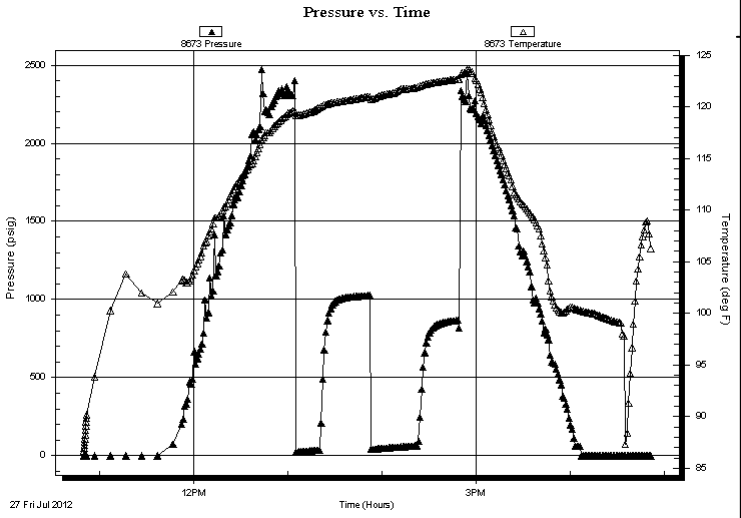
Reference Elevations: 3246.00 ft (KB)
3241.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8673 **Outside**

Press@RunDepth: psig @ 4663.00 ft (KB)
Start Date: 2012.07.27 End Date: 2012.07.27
Start Time: 10:50:05 End Time: 16:51:29

Capacity: 8000.00 psig
Last Calib.: 2012.07.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak surface blow over 15 mins.
ISI: No blow back
FF: No blow
FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud-100%m	0.37

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum, Inc.

88 Inverness Cir. E. Unit F 104
Englewood CO 80112

ATTN: Brad Rine

30-10s-34w Thomas KS

GL Kern Trust #1-30

Job Ticket: 47390 **DST#: 1**

Test Start: 2012.07.27 @ 10:50:00

Tool Information

Drill Pipe:	Length:	4532.00 ft	Diameter:	3.80 inches	Volume:	63.57 bbl	Tool Weight:		2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	124.00 ft	Diameter:	2.25 inches	Volume:	0.61 bbl	Weight to Pull Loose:		58000.00 lb
					Total Volume:	64.18 bbl	Tool Chased		2.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight:	Initial	50000.00 lb
Depth to Top Packer:		4660.00 ft						Final	50000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		90.00 ft							
Tool Length:		118.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4637.00		
Hydraulic tool	5.00			4642.00		
Jars	5.00			4647.00		
Safety Joint	3.00			4650.00		
Packer	5.00			4655.00	28.00	Bottom Of Top Packer
Packer	5.00			4660.00		
Stubb	1.00			4661.00		
Perforations	1.00			4662.00		
Change Over Sub	1.00			4663.00		
Recorder	0.00	8791	Inside	4663.00		
Recorder	0.00	8673	Outside	4663.00		
Drill Pipe	63.00			4726.00		
Change Over Sub	1.00			4727.00		
Perforations	20.00			4747.00		
Bullnose	3.00			4750.00	90.00	Bottom Packers & Anchor
Total Tool Length:	**118.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc.

88 Inverness Cir. E. Unit F 104
Englewood CO 80112

ATTN: Brad Rine

30-10s-34w Thomas KS

GL Kern Trust #1-30

Job Ticket: 47390 **DST#: 1**

Test Start: 2012.07.27 @ 10:50:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

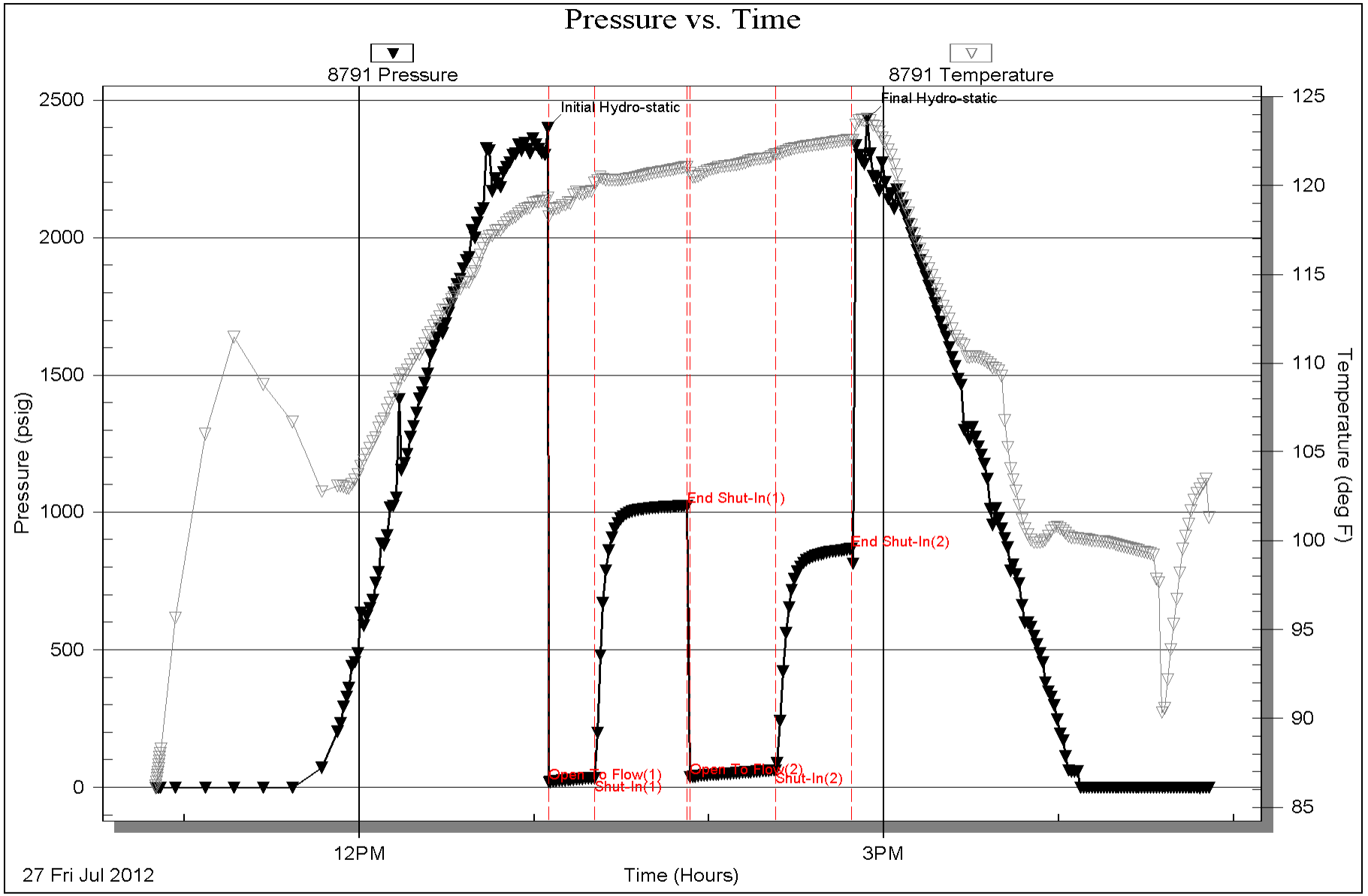
Recovery Table

Length ft	Description	Volume bbl
75.00	mud-100%m	0.369

Total Length: 75.00 ft Total Volume: 0.369 bbl

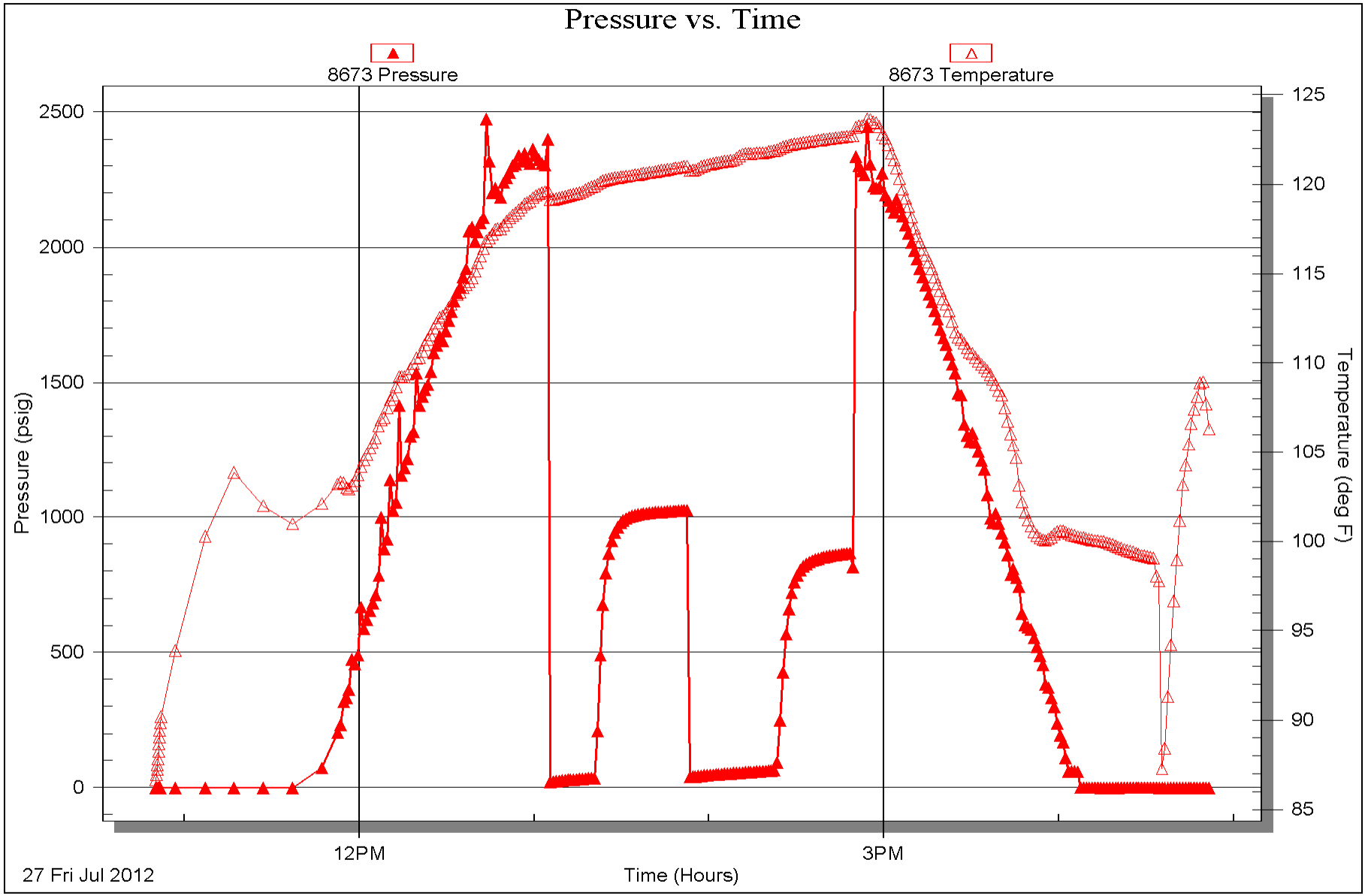
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8791 **Inside** Norstar Petroleum, Inc. GL Kern Trust #1-30 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47390 Printed: 2012.08.09 @ 11:55:16

Serial #: 8673 **Outside** Norstar Petroleum, Inc. GL Kern Trust #1-30 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 47390 Printed: 2012.08.09 @ 11:55:17

TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

4/10

Test Ticket

NO. 47390

Well Name & No. G.L. Kern Trust # 1-30 Test No. 1 Date 7-27-2012

Company Norstar Petroleum, Inc. Elevation 3246 KB 3241 GL

Address 88 Inverness Cir E. unit F104 Englewood Co. 80112

Co. Rep / Geo. Brad Rine Rig ww #8

Location: Sec. 30 Twp. 10S Rge. 34W Co. Thomas State Ks.

Interval Tested 4660 4750 Zone Tested Johnson

Anchor Length 90 Drill Pipe Run 4532 Mud Wt. 9.3

Top Packer Depth 4655 Drill Collars Run 124 Vis 54

Bottom Packer Depth 4660 Wt. Pipe Run -0- WL 9.6

Total Depth 4750 Chlorides 6000 ppm System LCM 2#

Blow Description IF: Weak Surface blow over 15 mins.

ISI: No blow back

FF: No blow

FSI: No blow back

Rec 75	Feet of Mud	%gas	%oil	%water	100 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75 BHT 122 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic	2397	☑ Test 1250	T-On Location 9:45
(B) First Initial Flow	18	☑ Jars 250	T-Started 10:50
(C) First Final Flow	34	☑ Safety Joint 75	T-Open 13:05
(D) Initial Shut-In	1023	☐ Circ Sub	T-Pulled 14:50
(E) Second Initial Flow	37	☐ Hourly Standby	T-Out 16:51
(F) Second Final Flow	62	☑ Mileage 75 X 2 = 150 X 1.55 = 232.50 Distance Back to Location X 2 465	Comments 7-28-2012 Loaded tool IF
(G) Final Shut-In	865	☐ Sampler	
(H) Final Hydrostatic	2430	☐ Straddle	☐ Ruined Shale Packer
		☐ Shale Packer	☐ Ruined Packer
Initial Open	15	☐ Extra Packer	☐ Extra Copies
Initial Shut-In	30	☐ Extra Recorder	Sub Total 0
Final Flow	30	☐ Day Standby	Total 2040
Final Shut-In	30	☐ Accessibility	MP/DST Disc't
		Sub Total 2040	

Approved By Our Representative Chuck Ray