Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1191123

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 + 5514
Contact Person: Brady Pfeiffer
Phone: (303) 925-0696
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Robert Elder
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 #:

12/28/2013	1/8/2014	1/9/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-193-20904-00-00
Spot Description:
SE - NW - NE - SE Sec. 30 Twp. 10 S. R. 34 ☐ East ☑ West
2232 Feet from ☐ North / ☑ South Line of Section
840 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: BA Kern Trust Well #: 1-30
Field Name:
Producing Formation: N/A
Elevation: Ground: 3248 Kelly Bushing: 3253
Total Vertical Depth: 4850 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 276 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: 27000 ppm Fluid volume: 810 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: 02/26/2014
☑ **Confidential Release Date:** 02/26/2016
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/27/2014

[redacted] 1191123

Operator Name: Norstar Petroleum, Inc. Lease Name: BA 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:

DIL
DUCP
MEL

☑ 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	276	Common	180	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
	-			
	-			

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)*

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	BA Kern Trust 1-30
Doc ID	1191123

Tops

Name	Top	Datum
Anhydrite	2749	+504
Topeka	3975	-722
Heebner	4130	-877
Toronto	4150	-897
Lansing	4170	-917
Stark Shale	4397	-1144
Pawnee	4586	-1333
Ft. Scott	4617	-1364
Cherokee	4637	-1384
Johnson	4718	-1465
Mississippi	4805	-1552

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	BA Kern Trust 1-30
Doc ID	1191123

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	276	Common	180	2% gel, 3% cc

CONSOLIDATED
Oil Well Services, LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

265250

TICKET NUMBER 44614
LOCATION Oakley Ks.
FOREMAN Daven

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1/9/14	5734	BA Kern Trust 1-30	30	10	34	Thomas Ks.

CUSTOMER: NorStar
MAILING ADDRESS: 88 Inverness Cir E. Unit F. 104
CITY: Englewood | STATE: Co. | ZIP CODE: 80112-5514

Page City N To DE 1/2 W 1 1/4 N W into

TRUCK #	DRIVER	TRUCK #	DRIVER
57	Cory		
693	Travis		
Helper	Jeff		

JOB TYPE PTA | HOLE SIZE 7 7/8 | HOLE DEPTH | CASING SIZE & WEIGHT
CASING DEPTH | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 12.5 To 13 | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty Meeting Rig up on Val #7 Plug as ordered
2750' - 25 SKs
1745' - 100 SKs
325' - 40 SKs
40' - 10 SKs 220 SKs 60/40 4% Gel 1/4# Flos
Plug Mousehole 15 SKs
Plug Rathole 30 SKs

Thanks Daven + Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 C	1	PUMP CHARGE	$1395.00	$1395.00
5406	25	MILEAGE	$5.25	$131.25
5407	9.46	Ton Mileage Delivery	$1.75	$438.00
1131	220 SKs	60/40 Poz mix	$15.86	$3489.20
1118 B	757#	Bentonite	$.27	$204.39
1107	55#	Flo seal	$2.97	$163.35
4432	1	8 5/8 Wooden Plug	$100.75	$100.75
1111	100#	Salt	NC	NC
			SubTotal	$5913.94
			Less 10%	$591.39
			SubTotal	$5322.55
		completed		
		7.15	SALES TAX	254.67
			ESTIMATED TOTAL	5577.22

Ravin 3737

AUTHORIZTION _____ TITLE Supervisor/Pusher 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 for

CONSOLIDATED
Oil Well Services, LLC

265069

TICKET NUMBER 44589
LOCATION Oakley KS
FOREMAN Jerry Y

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
12-28-13	5734	BA Kern Trust 1-30	30	10	34	Thomas KS

CUSTOMER: Norstar
MAILING ADDRESS:
CITY / STATE / ZIP CODE:

Page City N to dead end ⅛ W 1¼ N Winto

TRUCK #	DRIVER	TRUCK #	DRIVER
463	Danc R		
693	Michael R		
ass.st	Jeff K		

JOB TYPE Surface HOLE SIZE 12¼ HOLE DEPTH 282.6 CASING SIZE & WEIGHT 8 5/8 23#
CASING DEPTH 277.6 DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.8 SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 20'
DISPLACEMENT 16¼ bbl DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting and rig up on Vol 7 break circulation 4/rig tree hook up to truck and mix 180 sks Com class A cement w/3% calcium cloride 2% gel 4 wash up + displace with 16¼ bbl fresh water and shut in circulated approx 6 bbl to pit

cement did circulate Thank you
Jerry + crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	1150.00	1150.00
5406	25	MILEAGE	5.25	131.25
5407	8.5	ton mileage delivery (min)	430.00	430.00
1104S	180 sks	com class A cement	18.55	3339.00
1102	508 #	Calcium Cloride	.94	477.52
1118B	338 #	gel	.27	91.26
			Subtotal	5619.03
			less 10% disc	561.90
			subtotal	5057.13
		completed		
		7.15	SALES TAX	251.47
			ESTIMATED TOTAL	5308.60

Ravin 3737

AUTHORIZTION [signature] TITLE Manager DATE 12-28-13

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.

DRILL STEM TEST REPORT

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englew ood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53567 **DST#: 1**

Test Start: 2014.01.05 @ 03:47:00

GENERAL INFORMATION:

Formation: **LKC "K"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:26:30
Time Test Ended: 12:02:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66

Interval: 4384.00 ft (KB) To 4419.00 ft (KB) (TVD)
Total Depth: 4419.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

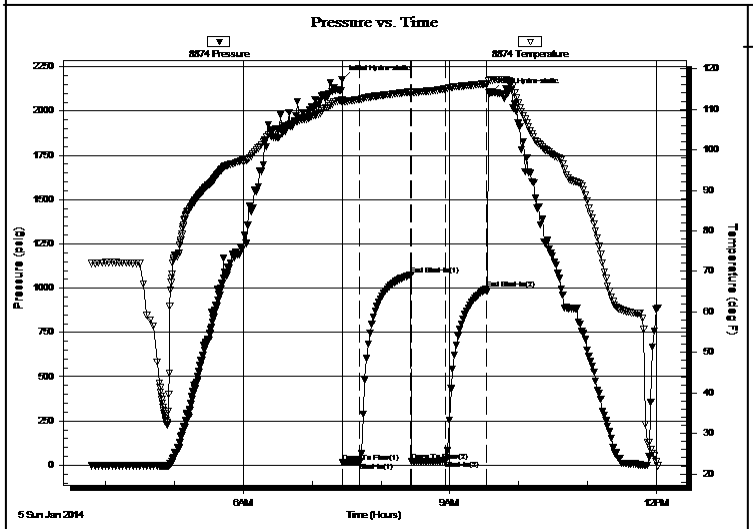
Reference Elevations: 3253.00 ft (KB)
3243.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 26.40 psig @ 4385.00 ft (KB)
Start Date: 2014.01.05 End Date: 2014.01.05
Start Time: 03:48:00 End Time: 12:02:00

Capacity: 8000.00 psig
Last Calib.: 2014.01.05
Time On Btm: 2014.01.05 @ 07:26:00
Time Off Btm: 2014.01.05 @ 09:36:00

TEST COMMENT: 15 - IF- 1/4" Blow built to 1"
45 - ISI- No Return
30 - FF- Weak Surface Blow started at 7 min. Did not build or die
30 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2178.70	112.25	Initial Hydro-static
1	17.85	111.61	Open To Flow (1)
16	18.72	112.45	Shut-In(1)
60	1076.08	114.28	End Shut-In(1)
61	21.17	113.97	Open To Flow (2)
91	26.40	115.07	Shut-In(2)
126	997.24	116.30	End Shut-In(2)
130	2103.36	117.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100M	0.42
0.00	Show of oil spots in tool	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englewood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53567 **DST#: 1**

Test Start: 2014.01.05 @ 03:47:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4800.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100M	0.421
0.00	Show of oil spots in tool	0.000

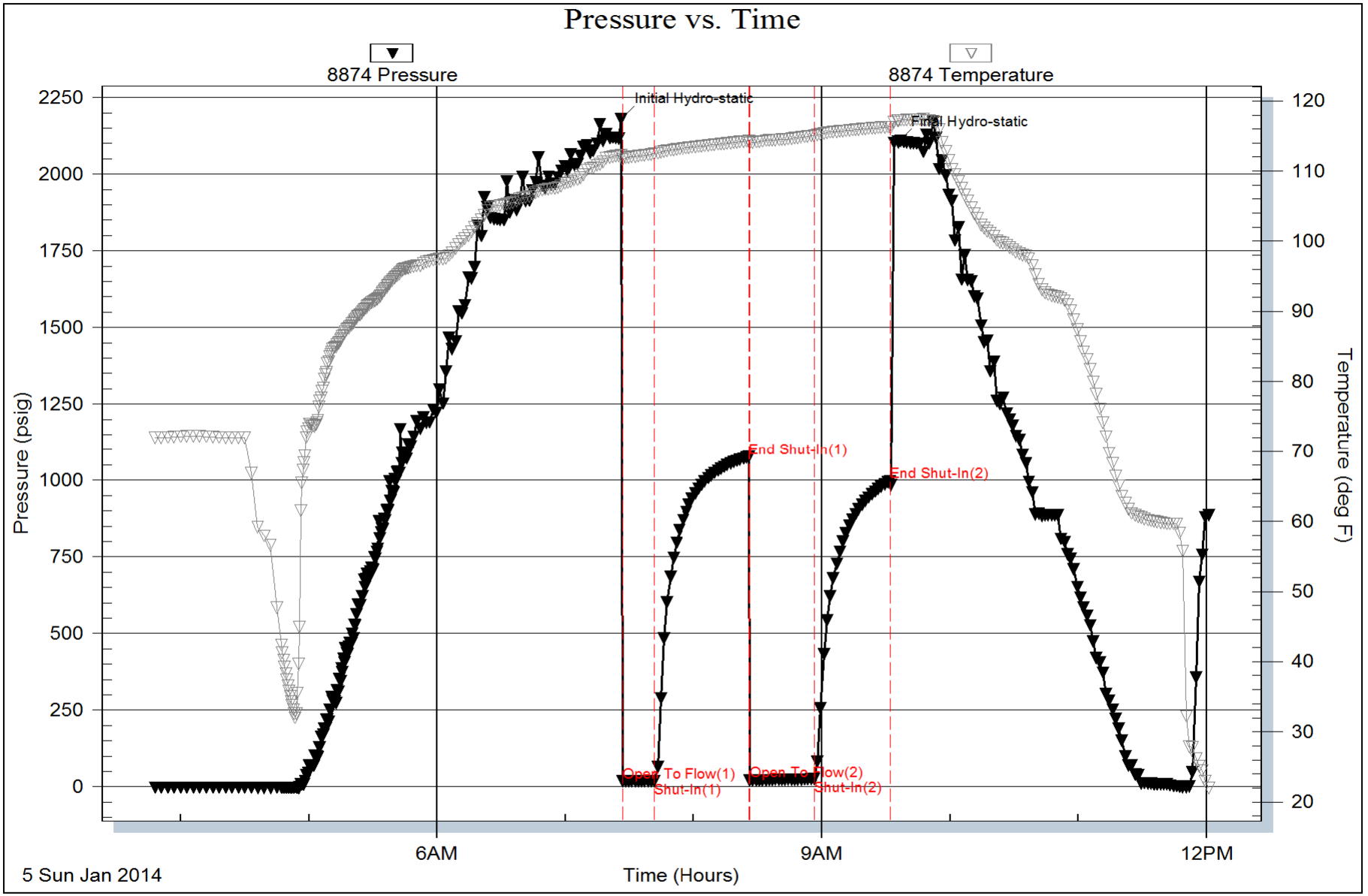
Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8874 **Inside** Norstar Petroleum, Inc BA Kem Trust #1-30 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 53567 Printed: 2014.01.06 @ 01:27:25

DRILL STEM TEST REPORT

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englew ood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53568 **DST#: 2**

Test Start: 2014.01.06 @ 18:20:00

GENERAL INFORMATION:

Formation: **Ft. Scott**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:02:30
Time Test Ended: 02:42:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66

Interval: 4605.00 ft (KB) To 4640.00 ft (KB) (TVD)
Total Depth: 4640.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

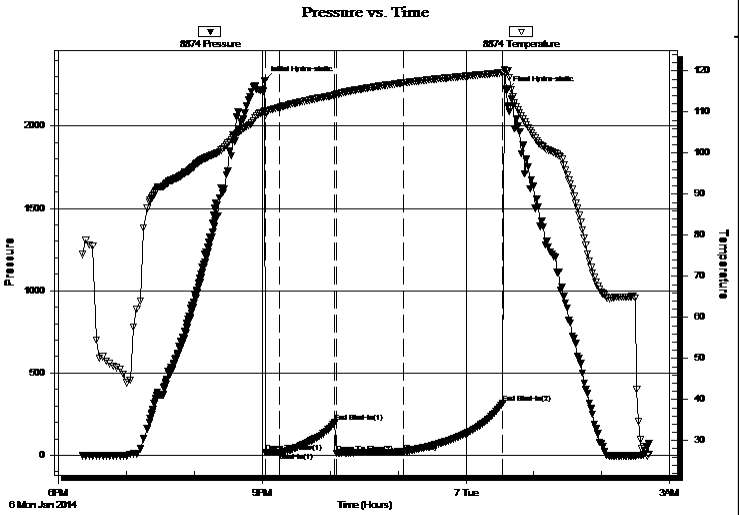
Reference Elevations: 3253.00 ft (KB)
3243.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 20.78 psig @ 4606.00 ft (KB)
Start Date: 2014.01.06 End Date: 2014.01.07
Start Time: 18:21:00 End Time: 02:42:00

Capacity: 8000.00 psig
Last Calib.: 2014.01.07
Time On Btm: 2014.01.06 @ 21:02:00
Time Off Btm: 2014.01.07 @ 00:36:00

TEST COMMENT: 15 - IF- 1/4" Blow built to 1 1/4"
45 - ISI- No Return
60 - FF- Surface Blow built to 4"
75 - FSI- Weak Surface Return built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2277.05	110.22	Initial Hydro-static
1	16.99	109.25	Open To Flow (1)
13	17.37	111.14	Shut-In(1)
62	201.03	114.14	End Shut-In(1)
64	13.12	114.32	Open To Flow (2)
123	20.78	117.11	Shut-In(2)
211	316.94	119.58	End Shut-In(2)
214	2216.11	120.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 2o 98M	0.35

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englewood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53568 **DST#: 2**

Test Start: 2014.01.06 @ 18:20:00

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4400.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

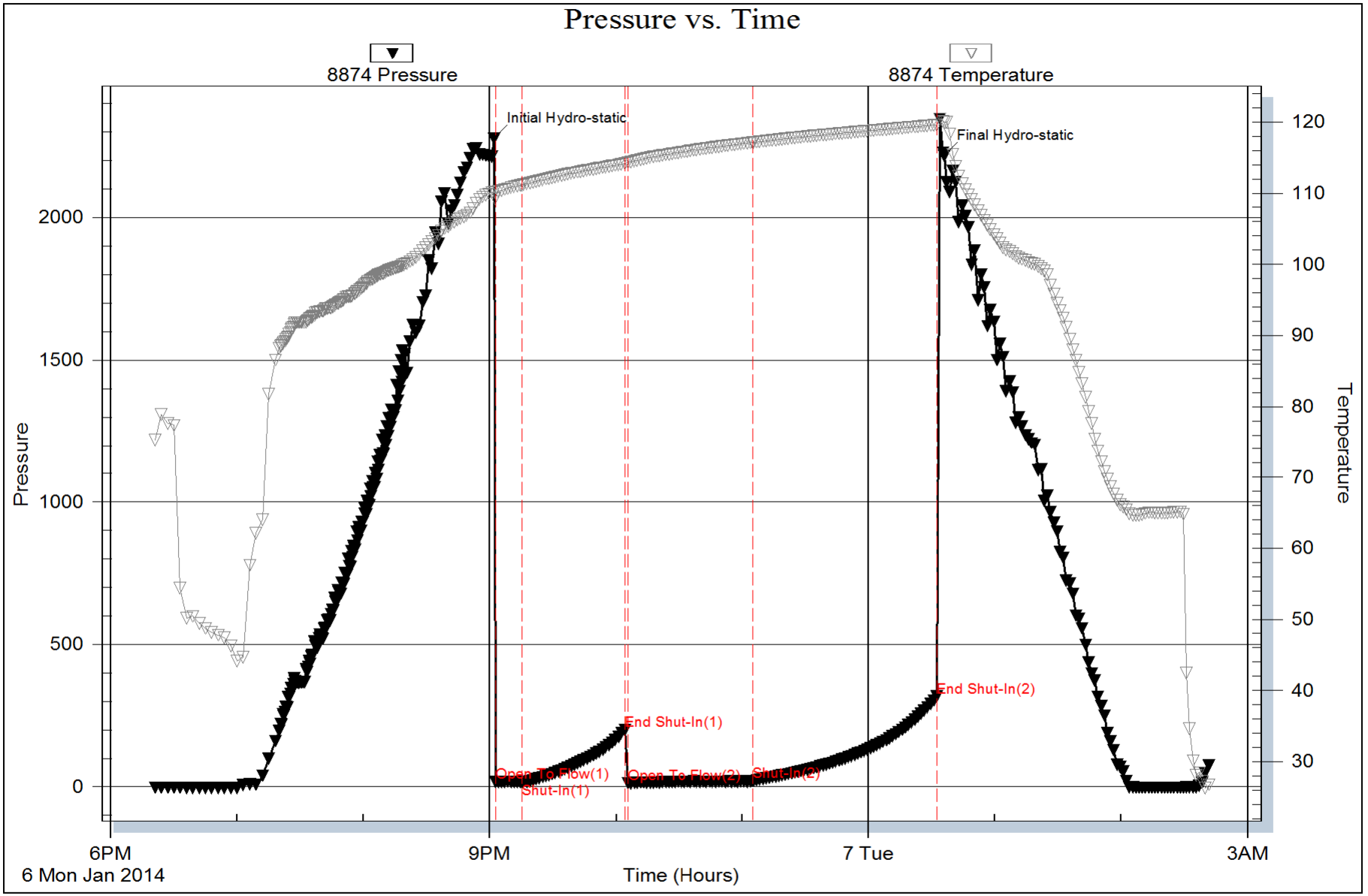
Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 2o 98M	0.351

Total Length: 25.00 ft Total Volume: 0.351 bbl

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

Serial #: 8874 **Inside** Norstar Petroleum, Inc BA Kem Trust #1-30 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 53568 Printed: 2014.01.08 @ 14:09:59

DRILL STEM TEST REPORT

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englew ood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53569 **DST#: 3**

Test Start: 2014.01.07 @ 22:30:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:02:00
Time Test Ended: 07:14:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Mack
Unit No: 66

Interval: 4693.00 ft (KB) To 4740.00 ft (KB) (TVD)
Total Depth: 4740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

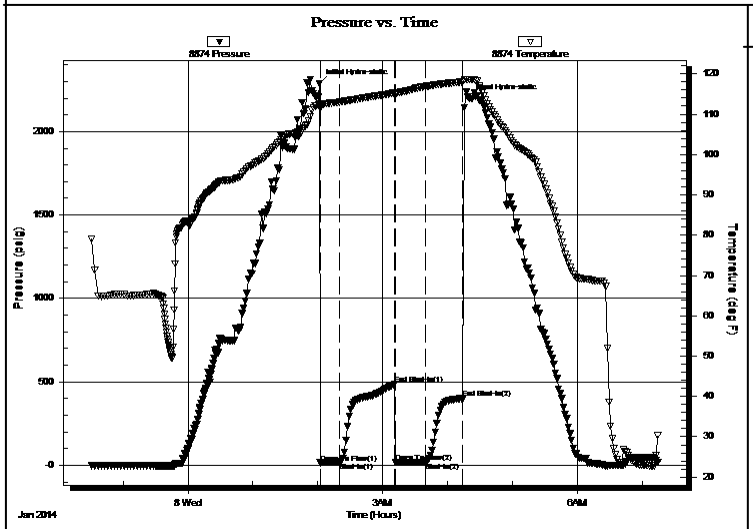
Reference Elevations: 3253.00 ft (KB)
3243.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8874 **Inside**

Press@RunDepth: 18.31 psig @ 4694.00 ft (KB)
Start Date: 2014.01.07 End Date: 2014.01.08
Start Time: 22:31:00 End Time: 07:14:00

Capacity: 8000.00 psig
Last Calib.: 2014.01.08
Time On Btm: 2014.01.08 @ 02:01:30
Time Off Btm: 2014.01.08 @ 04:20:00

TEST COMMENT: 15 - IF- Surface Blow built to 1"
45 - ISI- No Return
30 - FF- No Blow
30 - FSI- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2288.78	112.51	Initial Hydro-static
1	14.38	111.32	Open To Flow (1)
19	16.42	112.99	Shut-In(1)
70	486.77	115.26	End Shut-In(1)
70	16.70	115.15	Open To Flow (2)
98	18.31	116.86	Shut-In(2)
133	399.78	118.02	End Shut-In(2)
139	2197.94	118.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100M	0.07

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum, Inc

88 Inverness CiR. Unit F104
Englewood, Co 80112

ATTN: Bob Elder

30-10S-34W Thomas, KS

BA Kem Trust #1-30

Job Ticket: 53569 **DST#: 3**

Test Start: 2014.01.07 @ 22:30:00

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:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

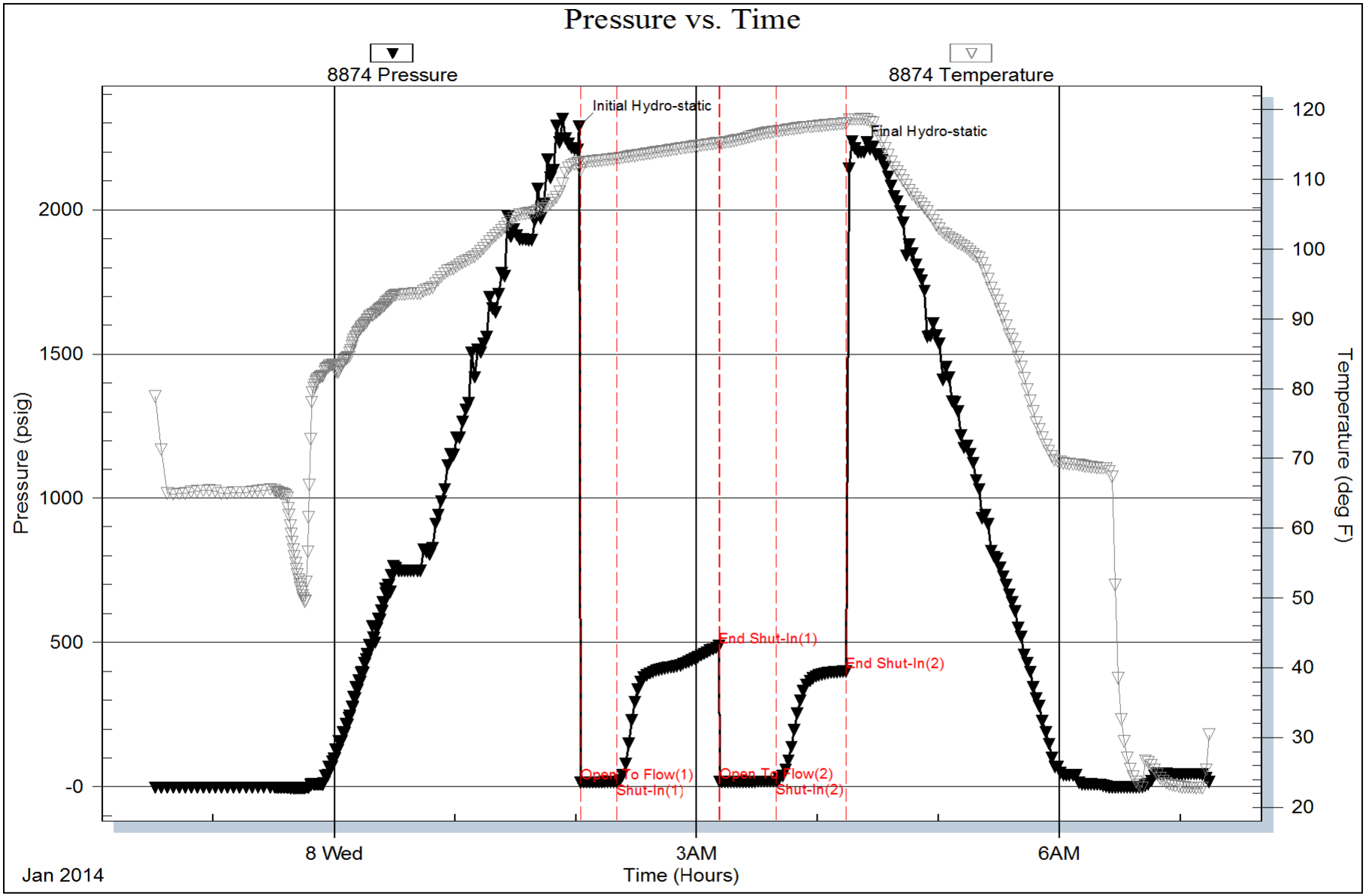
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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

Serial #: 8874 **Inside** Norstar Petroleum, Inc BA Kem Trust #1-30 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 53569 Printed: 2014.01.08 @ 08:46:47