



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1198640
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
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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: _____

1198640

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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	K & K Unit 1
Doc ID	1198640

Tops

Name	Top	Datum
Heebner	2892	-1106
Toronto	2906	-1120
Douglas	2924	-1138
Brown Lime	3011	-1225
Lansing	3033	-1247
Base Kansas City	3301	-1515
Conglomerate	3348	-1562
Arbuckle	3374	-1588
RTD	3391	-1605

MORNING DRILLING REPORT

SOUTHWIND DRILLING, INC.
RIG No. 1

K&N Petroleum, Inc.

Well Name: K&K Unit #1
Location: 2480' FSL & 2873' FEL
Section: 7-19S-10W
County: Rice
API: 15-159-22767-00-00

Elevation: GL 1773'
KB 1783'
Est. TD: 3400'

Rig No. 1 (Pusher Larry Beavers) 620 617-3478
Rig No. 1 (Doghouse) 620 794-2075
Southwind Drilling Office 620 564-3800



Rotary Total Depth: 3391'
Log Total Depth: N/A

Geologist: Jim Musgrove

Plugging Info: Plugged well with 215 sacks of 60/40 Poz, 4% gel, 3% cc, 1st plug @ 3370' w/ 35 sacks, 2nd plug @ 1250' w/ 35 sacks, 3rd plug @ 900' w/ 35 sacks, 4th plug @ 420' w/ 35 sacks, 5th plug @ 60' w/ 25 sacks, 30 sacks for Rat hole, 20 sacks for Mouse hole, cemented by Copeland (Tricket #40317), job complete @ 4:45 pm on 02.25.14.

Surface Casing: Ran 9 joints of new 23#, 8 5/8" casing, Tally @ 357.73'; Set @ 370', used 300 sacks of 60/40 Poz, 3% cc, 2% gel, cement circulated, by Copeland (Tricket #40388), plug down @ 1:45 am on 02.20.14.

7:00 A.M. Depth: 3391'

Spud Date & Time:	02/19/14	02/20/14	02/21/14	02/22/14	02/23/14	02/24/14	02/25/14	Total
2/19/14 @ 5:00pm	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	
Total Depth (7:00am)	0	371	1720	2572	3060	3353	3391	
Daily Progress	371	1349	852	488	293	38	0	3391
Ft. Per Hr.	106.00	81.76	42.07	44.36	23.44	30.40	0.00	52.17
Current Operation (7:00am)	Rig Up	WOC	Drilling	DST #1	Drilling	Plug Well		
Formation	Surface	Surface	Redbud / Shale	Lime /Shale	Lime / Shale	LKC	Arbuckle	
Fuel Used: (39.6 Gall/ Inch)	59.40	475.20	475.20	356.40	316.80	198.00	158.40	2039.40
Survey (degree & depth)	1° @ 371'			1° @ 3060'			1 1/4° @ 3391'	

7:00 A.M. Current Operation: TEAR DOWN

Mud Cost	\$340.85	\$0.00	\$5,709.90	\$171.60	-\$62.20	\$549.60	\$0.00	\$6,709.75
Weight (# / Gall)			10.3	0.0	9.2	0.0	0.0	
Vis (Funnel)			29	0	48	0	0	
Water Loss (cc)				7.6	7.6	0.0		
Bit #1	Reed RR							
Bit Size	7 7/8							
Bit Hours	3.50							3.50
Bit #2		JZ HA20-Q	JZ HA20-Q	JZ HA20-Q	JZ HA20-Q	JZ HA20-Q		
Bit Make / Type		7 7/8	7 7/8	7 7/8	7 7/8	7 7/8		
Bit Size		16.50	20.25	11.00	12.50	1.25		
Bit Hours		3.50	16.50	20.25	11.00	12.50	0.00	61.50
Bit Cumulative Hours								65.00
Weight on Bit (WOB)	15,000	25,000	32,000	32,000	35,000	35,000		
RPM	120	80	80	80	80	80		
Pump Pressure	400	700	800	800	750	750		
Drilling (Rotating) Hours	3.50	16.50	20.25	11.00	12.50	1.25	0.00	65.00

Daywork Hrs. (Operator's time)

Rat Hole (> 75 Hrs)								0.00
Wait on Cement	5.25	2.75						8.00
Bit Trip								0.00
Trip				4.00	2.75	6.75		13.50
Circulate				3.00	5.50	5.25		13.75
Tool				0.50	0.25	1.25		2.00
Tasting				1.50	1.00	3.00		5.50
Clean Floor after DST								0.00
Wait on Tank Truck / Reverse Fluid								0.00
Logging								0.00
LDDP / LDDC / Plug well						4.00		6.00
Run Casing / Circ / Cement	1.75							1.75
Set Slips								0.00
Nipple Down/Jet Cellar								0.50
Billable Hours	7.00	2.75	0.00	9.00	9.50	20.25	2.50	51.00

Non-Billable Hours (Southwind's time)

Rig Up	9.50							5.75
Drill Mouse Hole								0.00
Drill Rat Hole (< 75 hrs)	0.50							0.50
Drill Plug		0.25						0.25
Circulate / Trip (Surface)	1.25							1.25
Rig Repair		0.25		0.50	0.25			1.25
Wait on Parts								0.00
Connections	2.00	3.25	1.75	1.50	1.00			9.50
Jet/Displace		0.50	1.00	1.00				2.50
Surveys	0.25			0.25		0.25		0.75
Rig Check		0.50	0.75	0.75				3.00
Lost Circulation (< 2 hrs)								0.00
Lay Down Kelly / MH & RH							0.75	0.75
Plugging Issues							2.00	9.00
Change Bit								0.00
Trip Time for repair								0.00
Trip Time for Hole in Pipe								0.00
Non-Billable Hrs.	13.50	4.75	3.75	4.00	2.00	2.50	13.50	44.00

Footage Cost	\$ 5,194.00	\$ 18,886.00	\$ 11,928.00	\$ 6,832.00	\$ 4,102.00	\$ 532.00	\$ -	\$ 47,474.00
Daywork Cost	\$ 2,450.00	\$ 962.50	\$ -	\$ 3,150.00	\$ 3,325.00	\$ 7,087.50	\$ 875.00	\$ 17,850.00
Combined Est. Cost*	\$ 7,644.00	\$ 19,848.50	\$ 11,928.00	\$ 9,982.00	\$ 7,427.00	\$ 7,619.50	\$ 875.00	\$ 65,324.00

Please note that this is estimated footage & daywork cost only. Additional charges will apply on invoice (fuel surcharge, water transfer pump, etc)

DST #1 Info -

Footage Interval: 3023' - 3065
Recovery: 120' Oil Spot Mud

DST #2 Info -

Footage Interval: 3288' - 3391'
Recovery: 75' Mud

Anhydrite @ 1355' - 1373'

Displaced @ 2600' - 2639'



Musgrove

PETROLEUM CORPORATION
Clairlin, Kansas

NOTES

Company: K&N Petroleum.
 Lease: K & K Unit # 1
 Field: Rick
 Location: NE-NE-NE-SW
 Sec:7 Twsp:19S Rge:10W
 County:Rice State:Kansas
 KB:1773' GL:1786'
 API #: 15-159-22767-00-00
 Contractor: Southwind Drilling (Rig # 1)
 Spud:02/19/2014 Comp:02/24/2014
 RTD:3391' LTD:None
 Mud Up: 2500' Type Mud: Chemical
 Samples Saved From: 2600' to RTD
 Drilling Time Kept From: 2600' to RTD
 Samples Examined From: 2600' to RTD
 Geological Supervision from: 2600' to RTD
 Geologist on Well: Wyatt Urban
 Surface Casing: 8 5/8@380'
 Electronic Surveys: None

K&N Petroleum, Inc. well comparison sheet

Formation	DRILLING WELL K&N Petroleum- K & K Unit NE-NE-NE-SW 7-19S-10W 1786 KB				COMPARISON WELL Petroleum Operation-#1Musenberg SE-NW-SE 7-19S-10W 1774 KB				COMPARISON WELL Gross Drilling Co.- #1 Manke SW-SW-NE 7-19S-10W 1773 KB			
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Heebner	2892	-1106			2889	-1115	9		2888	-1114	8	
Toronto	2906	-1120			2908	-1134	14					
Douglas	2924	-1138			2921	-1147	9					
Brown Lime	3011	-1225			3007	-1233	8		3005	-1231	6	
Lansing	3033	-1247			3024	-1250	3		3026	-1252	5	
BKC	3301	-1515			3297	-1523	8					
Conglomerate	3348	-1562			3330	-1556	-6		3340	-1566	4	
Arbuckle	3374	-1588			3347	-1573	-15		3356	-1582	-6	
RTD	3391	-1605			3395	-1621	16		3456	-1682	77	



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & N Petroleum Inc
 1105 Walnut
 Great Bend KS 67530

7 19s 10w Rice

K & K Unit # 1

Job Ticket: 56010

DST#: 1

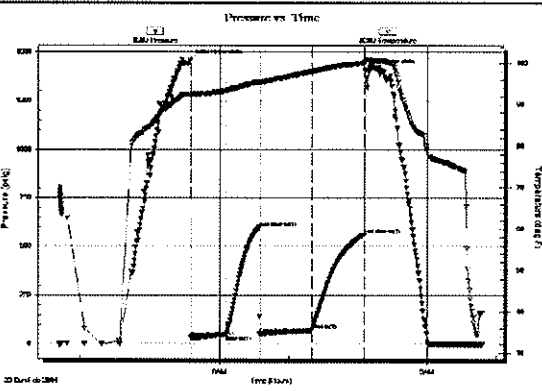
GENERAL INFORMATION:

Formation: LKC " A - C "
 Deviated: No Whipstock: 1781.00 ft (KB)
 Time Tool Opened: 05:35:45
 Time Test Ended: 09:48:00
 Interval: 3023.00 ft (KB) To 3065.00 ft (KB) (TVD)
 Total Depth: 3065.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches -hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 1781.00 ft (KB)
 1773.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289

Outside
 Press@RunDepth: 71.78 psig @ 3030.00 ft (KB)
 Start Date: 2014.02.23 End Date: 2014.02.23
 Start Time: 03:42:02 End Time: 09:48:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.23
 Time On Btm: 2014.02.23 @ 05:35:15
 Time Off Btm: 2014.02.23 @ 08:05:45

TEST COMMENT: 30-FP- Surface Blow Building to 6 1/2in. in 20min. Died Back in 23min.
 30-ISP- No Blow
 45-FFP- BOB in 17min.
 45-FSP- Surface Blow



PRESSURE SUMMARY

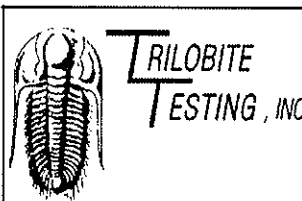
Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.66	92.51	Initial Hydro-static
1	36.70	92.33	Open To Flow (1)
30	48.27	93.44	Shut-in(1)
59	601.81	95.62	End Shut-in(1)
60	53.33	95.49	Open To Flow (2)
105	71.78	98.10	Shut-in(2)
150	562.97	100.12	End Shut-in(2)
151	1406.34	100.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bb)
120.00	OSM 100%	1.68
0.00	250 GP	0.00

Gas Rates

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



DRILL STEM TEST REPORT

K & N Petroleum Inc
 1105 Walnut
 Great Bend KS 67530
 ATTN: Wyatt Urban
 7 19s 10w Rice
 K & K Unit # 1
 Job Ticket: 56011 DST#: 2
 Test Start: 2014.02.24 @ 16:00:00

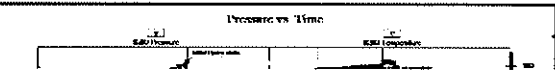
GENERAL INFORMATION:

Formation: Arbuckle
 Deviated: No Whipstock: 1781.00 ft (KB)
 Time Tool Opened: 17:58:30
 Time Test Ended: 22:38:00
 Interval: 3288.00 ft (KB) To 3391.00 ft (KB) (TVD)
 Total Depth: 3391.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches -hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 1781.00 ft (KB)
 1773.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289

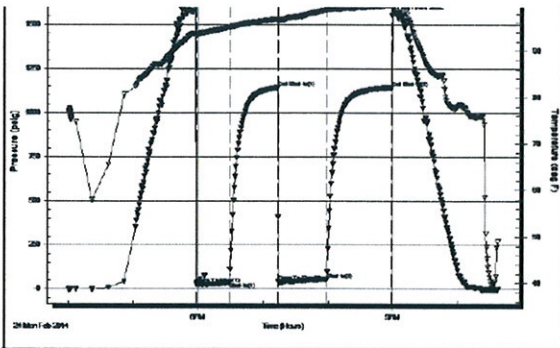
Outside
 Press@RunDepth: 57.86 psig @ 3297.00 ft (KB)
 Start Date: 2014.02.24 End Date: 2014.02.24
 Start Time: 16:00:02 End Time: 22:38:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.24
 Time On Btm: 2014.02.24 @ 17:58:15
 Time Off Btm: 2014.02.24 @ 20:58:45

TEST COMMENT: 30-FP- Surface Blow Building to 4 1/4in.
 45-ISP- No Blow
 45-FFP- Surface Blow Building to 3in.
 60-DSP- No Blow



PRESSURE SUMMARY

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



Time (h)	Pressure (psig)	Flow Rate (Mcf/d)	Description
0	1636.57	93.74	Initial Hydro-static
1	30.42	93.26	Open To Flow (1)
31	37.23	95.05	Shut-h(1)
75	1141.57	96.83	End Shut-h(1)
76	41.96	96.58	Open To Flow (2)
120	57.86	98.80	Shut-h(2)
180	1143.56	99.93	End Shut-h(2)
181	1551.57	100.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	1.05

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

ROCK TYPES

Chtcong1	Lmst fw<7	shale, grn	Carbon Sh	Ss
Dolsec	Lmst fw7>	shale, gry	shale, red	

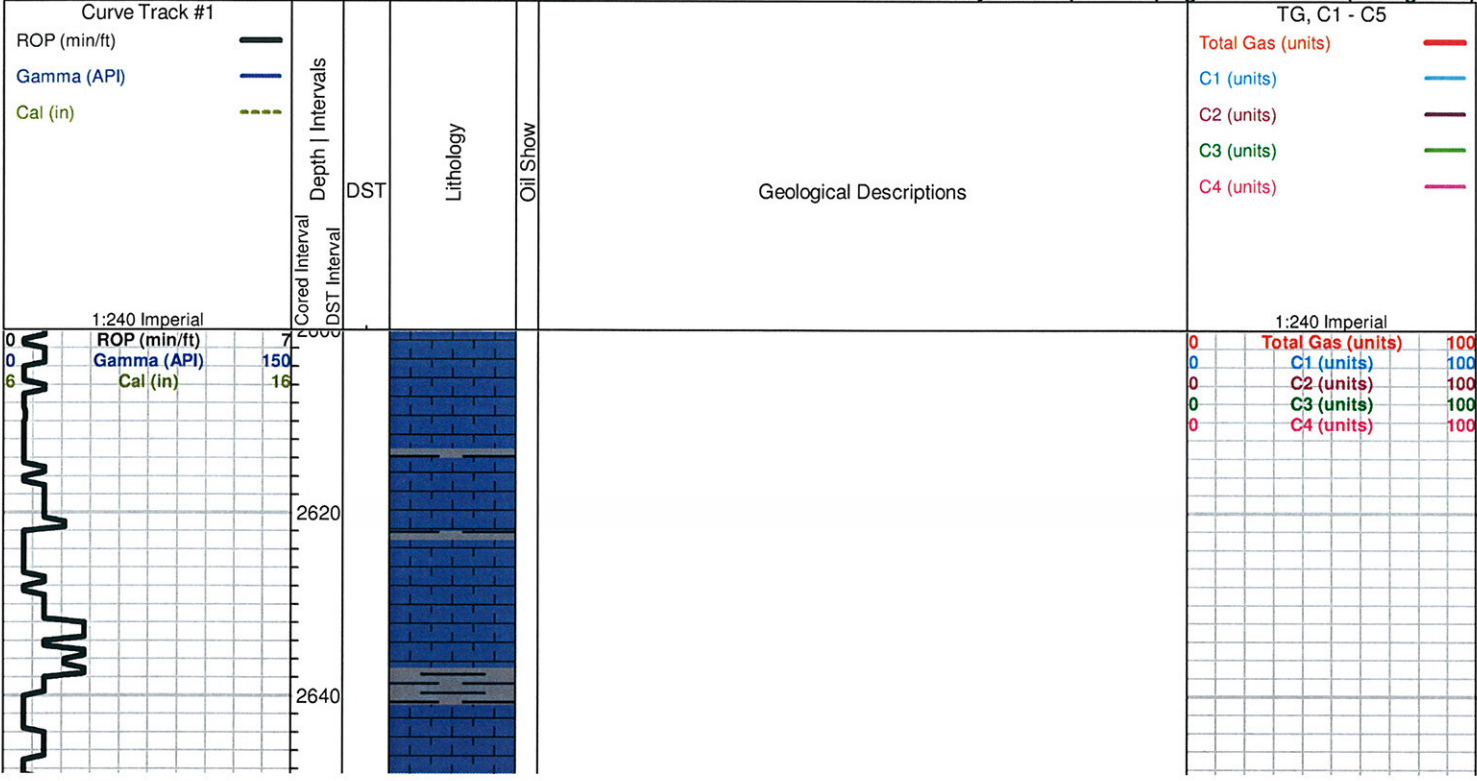
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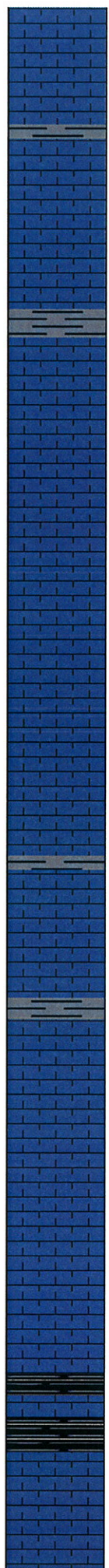
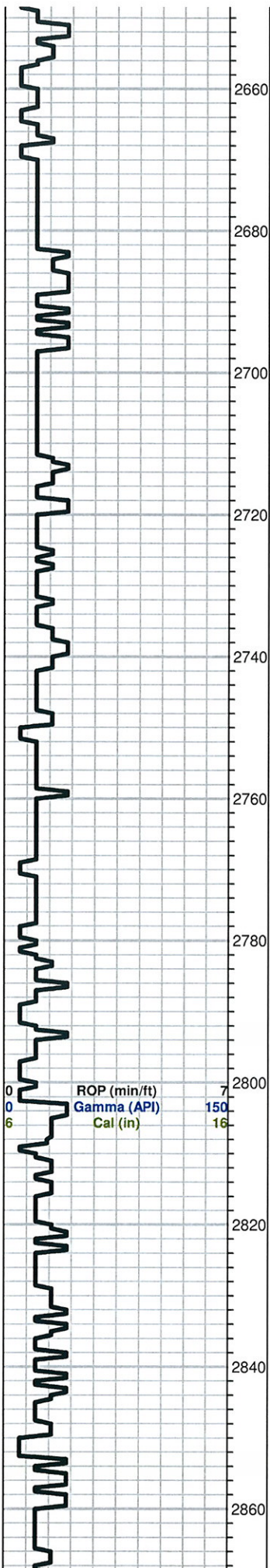
FOSSIL φ Oolite	STRINGER ~ Chert
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OTHER SYMBOLS

Oil Show ● Good Show ● Fair Show ● Poor Show ○ Spotted or Trace ○ Questionable Stn D Dead Oil Stn ■ Fluorescence * Gas	DST DST Int DST alt Core tail pipe
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Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





LS, tan to brown, FXL, dense, poor visible porosity, no shows

Sh. gray to black

LS, tan to brown, FXL, dense, no shows, poor scattered porosity, chalky in parts

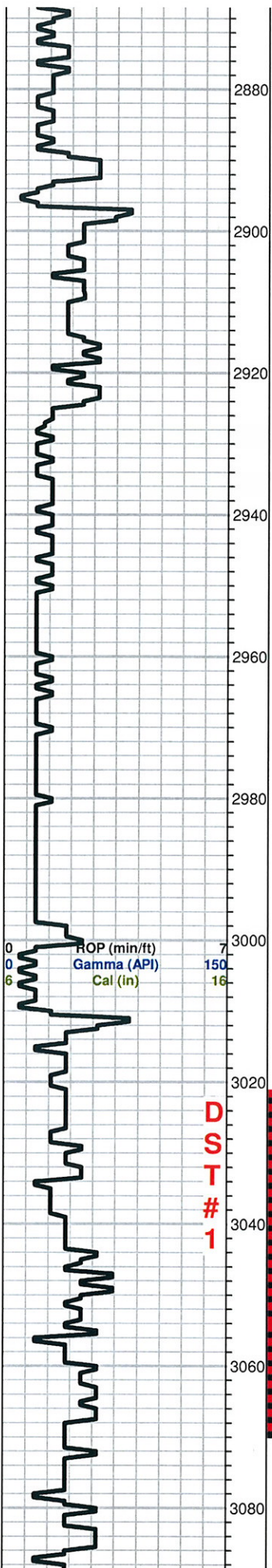
LS, tan FXL, dense, poor visible porosity, cherty no shows

LS, cream to tan, chalky, poor visible porosity, no shows

LS, cream to tan, FXL, few foss, poor visible porosity

Sh. black gray

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS, tan to brown, dense, mottled, poor visible porosity, FXL,

Heebner 2892 (-1106)

Black carb Sh.

Toronto

LS, tan FXL, dense, poor scattered porosity, chalky, no shows

Douglas 2921

Sh. black, gray, silty soft

Sh. maroon, gray, silty

Sh. gray, greenish, maroon, black

Sh. A/A, trc. LS, cream chalky, poor visible porosity, N/S

Brown Lime 2997 (-)

LS, brown, FXL, cherty dense, poor visible porosity, no shows

Lansing 3034 (-)

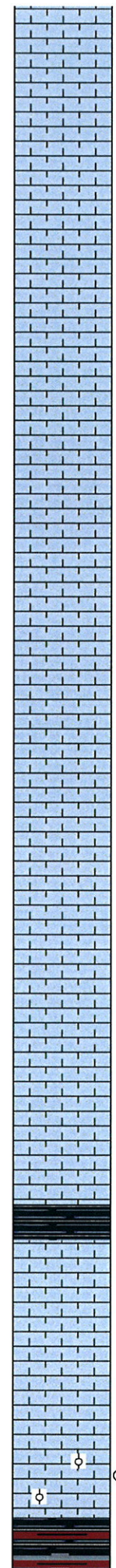
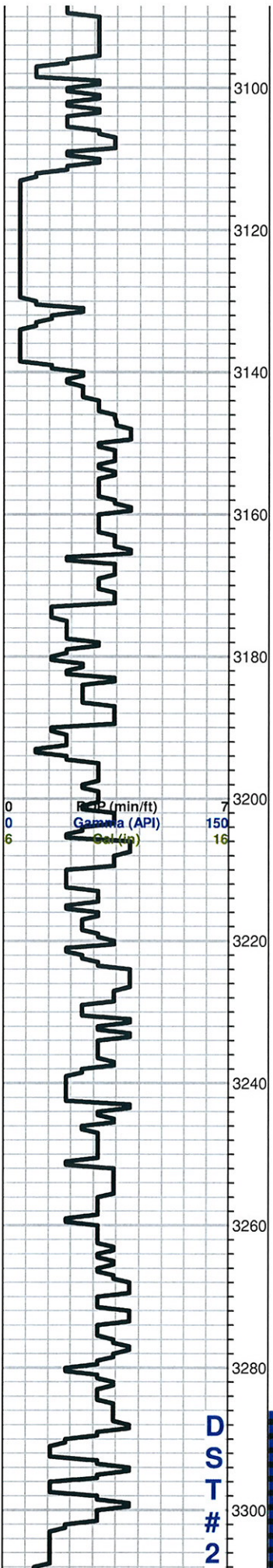
LS, tan to brown, F-MXL, few foss, poor visible porosity, chalky in parts, N/S

LS, cream to tan, FXL, poor scattered porosity, trc.SFO, Lt. golden brown stain, Ft. odor

LS, tan to brown, F-MXLN, fair scattered porosity, SFO, faint odor

Sh. gray, black, trace gray to white boney chert

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS, gray, ool, poor visible porosity, chalky in parts, no shows

LS, tan, oom, fair oomoldic porosity, no shows

LS, A/A

LS, cream to tan, ool, good vuggy porosity, no shows

LS, tan to brown, FXL, dense, poor scattered porosity, no shows, chalky in parts

Sh. black carb

LS, gray to tan, ool, poor scattered porosity, no shows

LS, gray to tan, poorly developed ool, poor visible porosity, no shows

LS, tan to brown, FXL, cherty porr visible porosity, no shows

LS, tan, FXL, cherty in parts, poor scattered porosity, few foss, trace gray shale, silty

Sh. black carb

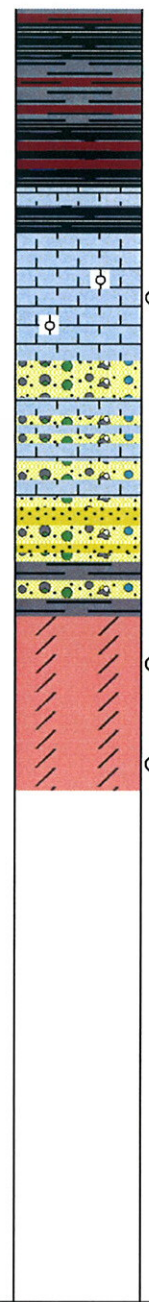
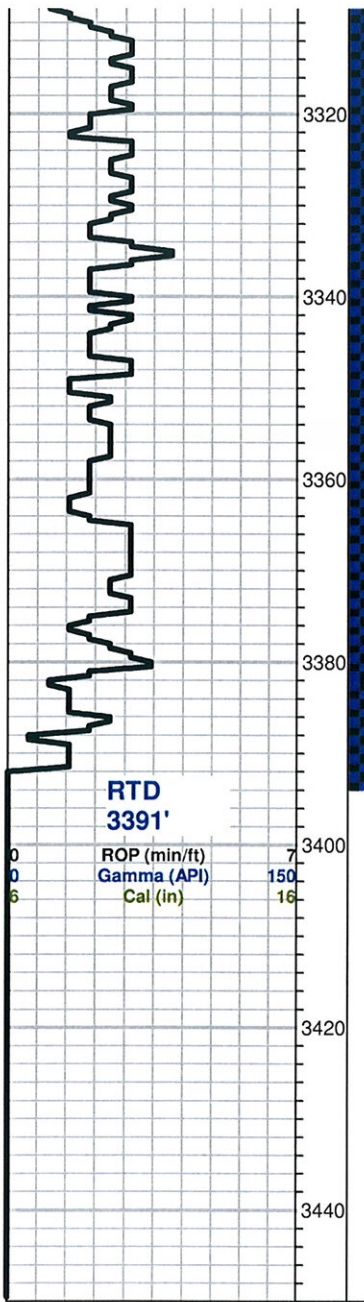
LS, cream to tan, FXL, dense, poor scattered porosity, no shows

LS, cream to white, ool, poorly developed ool, chalky, poor scattered porosity, Lt. trace SFO, trace Lt. brown stain, no odor

BKC 3301 (-1515)

Sh. gray black carb maroon/ brick red silty

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Sh. gray, black carb, maroon, black red, silty

Sh. black greenish, maroon, silty

Sh, black carb

LS, cream to white, ool, chalky, poor scattered porosity, trace SFO, Lt. brown stain, odor???

Conglomerate 3348 (-1562)

Sh. black carb, Chert, ool, yellow, white, opaque, trc. LS, cream, chalky, MXLN, poor to fair visible porosity, no shows

Sd. clear to gray, qtz, well rounded,

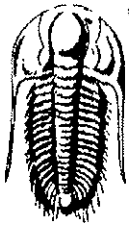
Sh. gray, black, greenish, trace yellow chert, no shows

Arbuckle 3374 (-1588)

Dol, tan, brown, FXL, dense, sucrosic, poor visible porosity, trace SFO, odor, Lt. black stain

Dol, tan, sucrosic, Lt. spotty SFO, poor visible porosity, Lt. brown stain, strong odor

CFS 20-40-60		
CFS 20-40-60		
CFS 20-40-60		
CFS 20-40-60		
CFS 20-40-60		
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & N Petroleum Inc
 1105 Walnut
 Great Bend KS 67530
 ATTN: Wyatt Urban

7 19s 10w Rice
K & K Unit # 1
 Job Ticket: 56010 **DST#: 1**
 Test Start: 2014.02.23 @ 03:42:00

GENERAL INFORMATION:

Formation: **LKC "A - C"**
 Deviated: No Whipstock: 1781.00 ft (KB)
 Time Tool Opened: 05:35:45
 Time Test Ended: 09:48:00
 Interval: **3023.00 ft (KB) To 3065.00 ft (KB) (TVD)**
 Total Depth: 3065.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

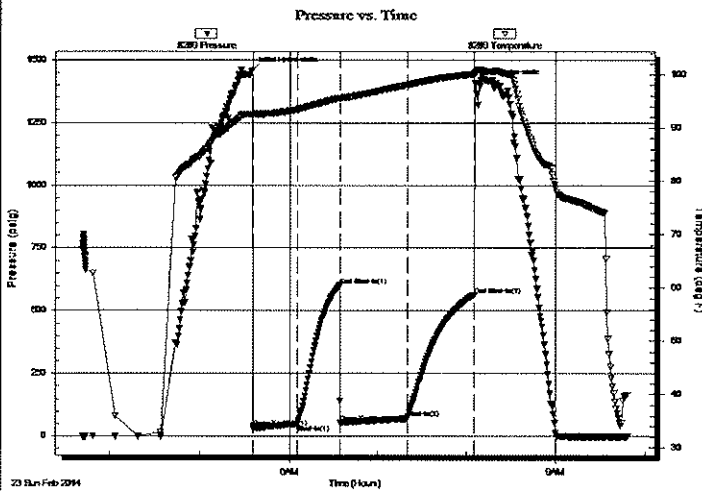
Test Type: Conventional Bottom Hole (Initial)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 1781.00 ft (KB)
 1773.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289

Outside

Press@RunDepth: 71.78 psig @ 3030.00 ft (KB)
 Start Date: 2014.02.23 End Date: 2014.02.23
 Start Time: 03:42:02 End Time: 09:48:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.23
 Time On Btm: 2014.02.23 @ 05:35:15
 Time Off Btm: 2014.02.23 @ 08:05:45

TEST COMMENT: 30-IFP- Surface Blow Building to 6 1/2in. in 20min. Died Back in 23min.
 30-ISIP- No Blow
 45-FFP- BOB in 17min.
 45-FSIP- Surface Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1457.66	92.51	Initial Hydro-static
1	36.70	92.33	Open To Flow (1)
30	48.27	93.44	Shut-In(1)
59	601.81	95.62	End Shut-In(1)
60	53.33	95.49	Open To Flow (2)
105	71.78	98.10	Shut-In(2)
150	562.97	100.12	End Shut-In(2)
151	1406.34	100.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OSM 100%	1.68
0.00	250 GIP	0.00

Gas Rates

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

Serial #: 8289

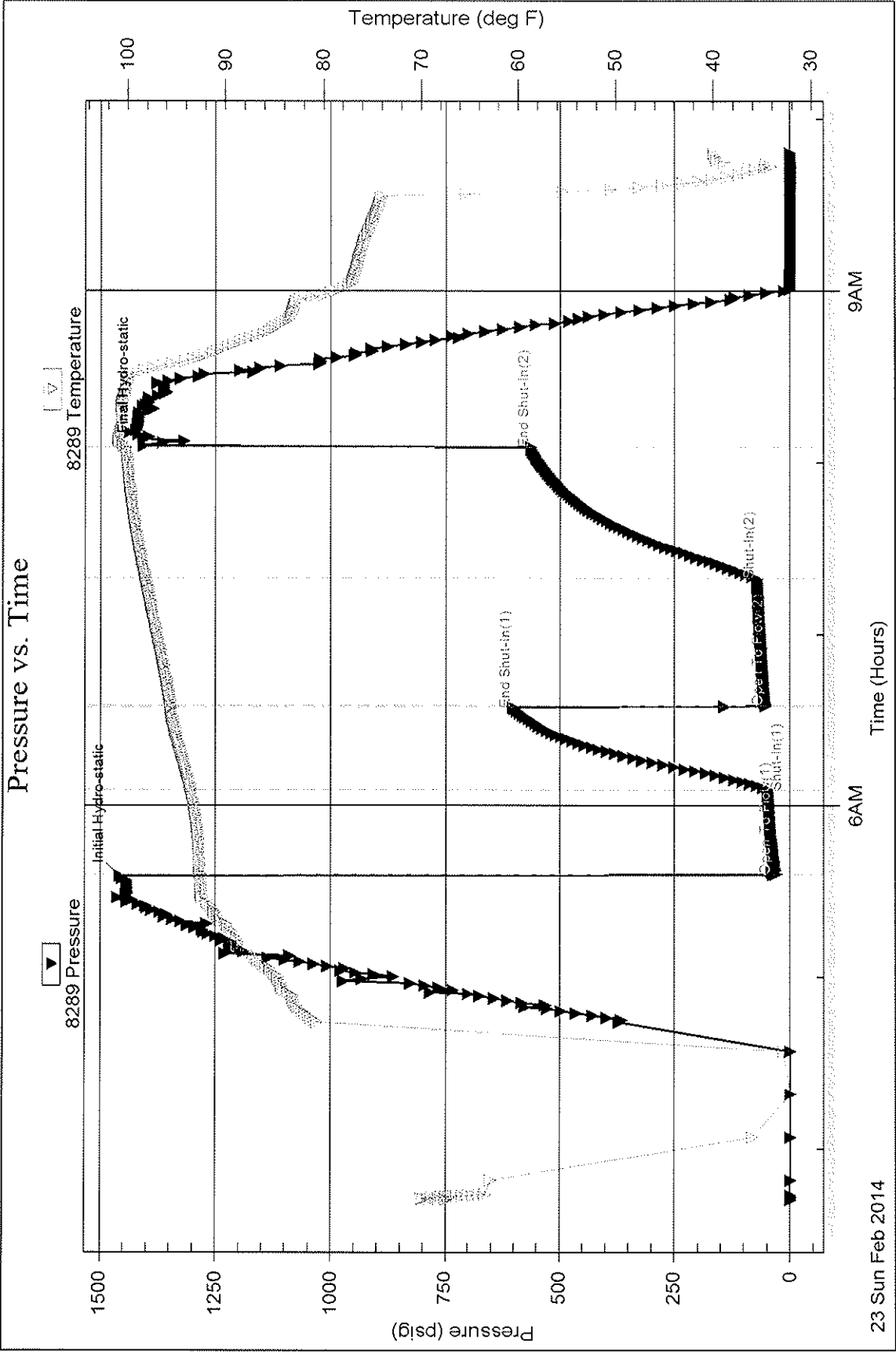
Outside

K & N Petroleum Inc

K & K Unit # 1

DST Test Number: 1

Pressure vs. Time



23 Sun Feb 2014

6AM

9AM

Serial #: 8789

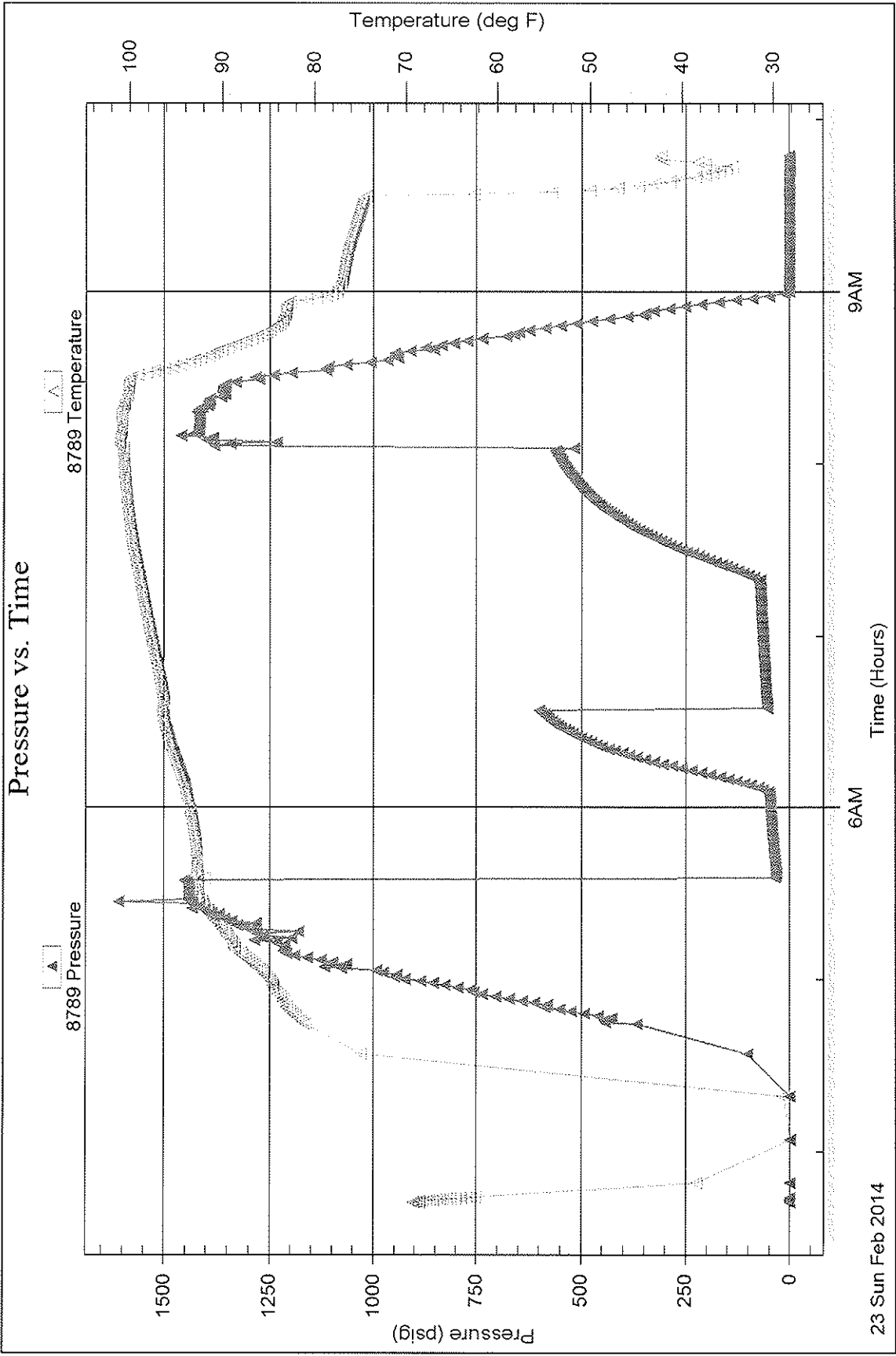
Inside

K & N Petroleum Inc

K & K Unit # 1

DST Test Number: 1

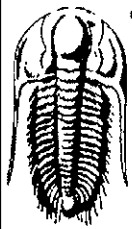
Pressure vs. Time



23 Sun Feb 2014

9AM

6AM



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

K & N Petroleum Inc
 1105 Walnut
 Great Bend KS 67530
 ATTN: Wyatt Urban

7 19s 10w Rice
K & K Unit # 1
 Job Ticket: 56011 **DST#: 2**
 Test Start: 2014.02.24 @ 16:00:00

GENERAL INFORMATION:

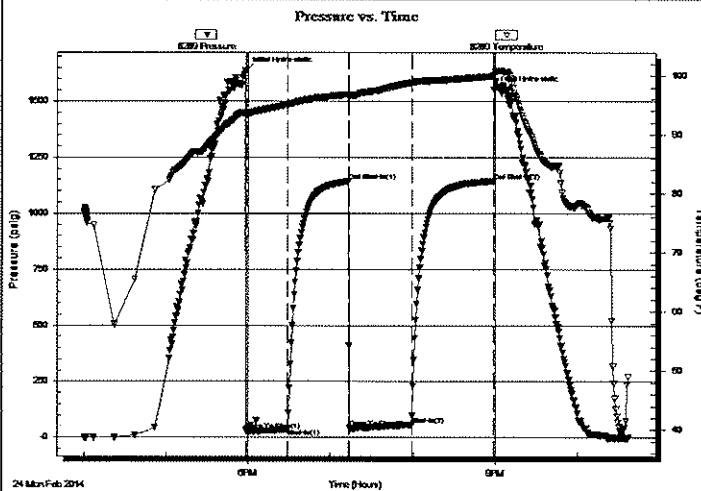
Formation: **Arbuckle**
 Deviated: No Whipstock: 1781.00 ft (KB)
 Time Tool Opened: 17:58:30
 Time Test Ended: 22:38:00
 Interval: **3288.00 ft (KB) To 3391.00 ft (KB) (TVD)**
 Total Depth: 3391.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 76
 Reference Elevations: 1781.00 ft (KB)
 1773.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8289

Outside

Press@RunDepth: 57.86 psig @ 3297.00 ft (KB)
 Start Date: 2014.02.24 End Date: 2014.02.24
 Start Time: 16:00:02 End Time: 22:38:00
 Capacity: 8000.00 psig
 Last Calib.: 2014.02.24
 Time On Btm: 2014.02.24 @ 17:58:15
 Time Off Btm: 2014.02.24 @ 20:58:45

TEST COMMENT: 30-IFP- Surface Blow Building to 4 1/4in.
 45-ISIP- No Blow
 45-FFP- Surface Blow Building to 3in.
 60-DSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1636.57	93.74	Initial Hydro-static
1	30.42	93.26	Open To Flow (1)
31	37.23	95.05	Shut-In(1)
75	1141.57	96.83	End Shut-In(1)
76	41.96	96.58	Open To Flow (2)
120	57.86	98.80	Shut-In(2)
180	1143.56	99.93	End Shut-In(2)
181	1551.57	100.06	Final Hydro-static

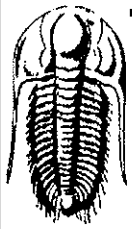
Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	1.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

K & N Petroleum Inc
1105 Walnut
Great Bend KS 67530
ATTN: Wyatt Urban

7 19s 10w Rice
K & K Unit # 1
Job Ticket: 56011 **DST#: 2**
Test Start: 2014.02.24 @ 16:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 44.00 sec/qt	ft		
Water Loss: 8.38 in ³	Cushion Volume:		
Resistivity: ohm.m	Gas Cushion Type:		
Salinity: 7000.00 ppm	Gas Cushion Pressure:		
Filter Cake: inches	psig		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	Mud 100%	1.052

Total Length: 75.00 ft Total Volume: 1.052 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8289

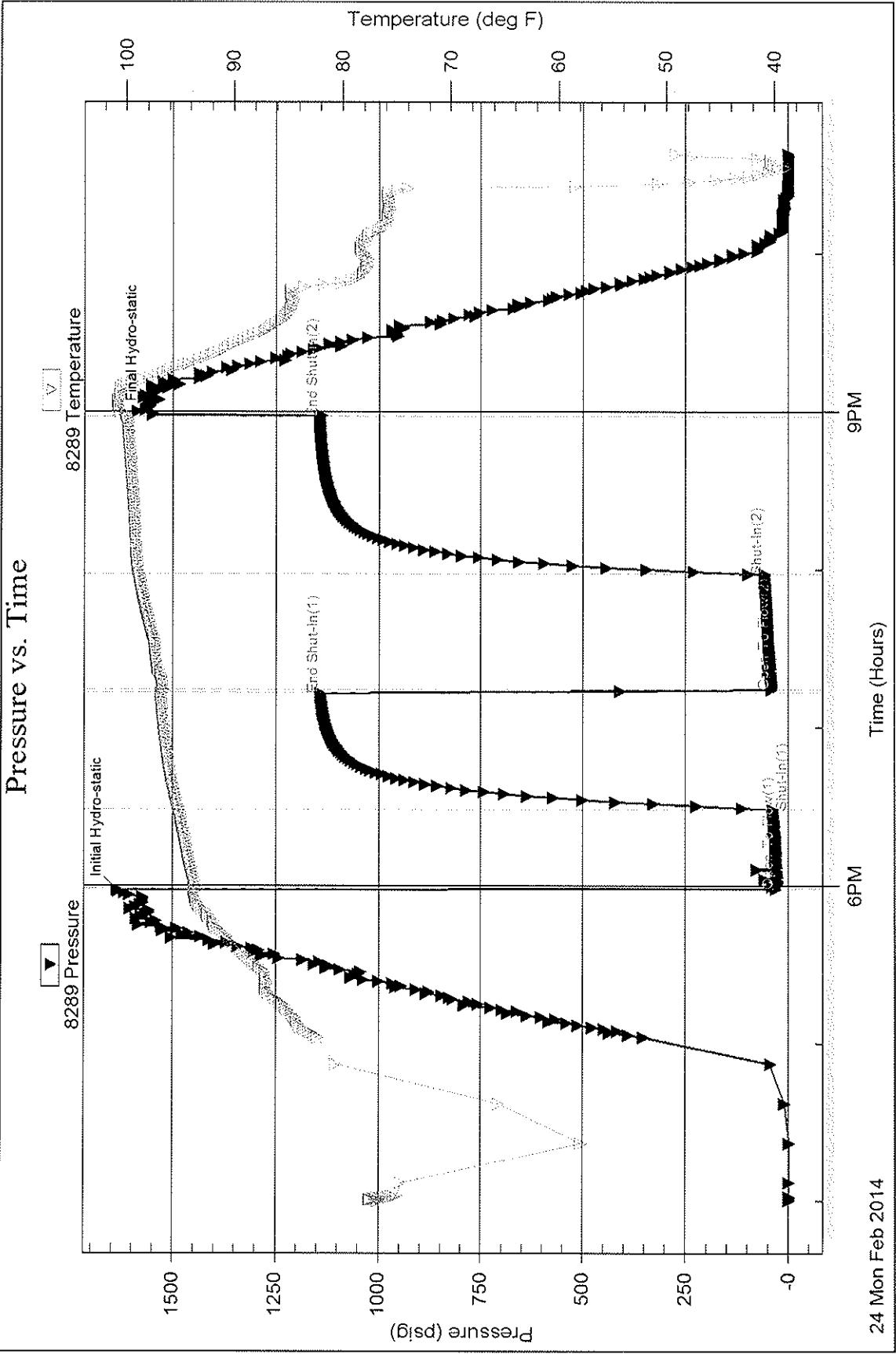
Outside

K & N Petroleum Inc

K & K Unit # 1

DST Test Number: 2

Pressure vs. Time



24 Mon Feb 2014

6PM

9PM

Time (Hours)

Trilobite Testing, Inc

Ref. No: 56011

Printed: 2014.02.24 @ 23:13:01