

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
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) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
---	--	------------------------------------

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	NORMAN KLEPPER A 2
Doc ID	1484052

Tops

Name	Top	Datum
Anhydrite	574	+1262
B. Anhydrite	596	+1240
Heebner	3094	-1258
Toronto	3114	-1278
Douglas	3130	-1294
Brown Lime	3229	-1393
Lansing	3254	-1418
BKC	3492	-1656
Simpson	3560	-1724
Arbuckle	3594	-1758



Mudgrouse

Petroleum Geology
212 Main Street, Claflin KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>K&N Petroleum, Inc.</u>	ELEVATIONS
LEASE <u>Norman Klepper #2-A</u>	KB <u>1836'</u>
FIELD <u>HEYEN</u>	DF <u>1834'</u>
LOCATION <u>SW-NE-SE-SW (962' FSL& 2259' FWL)</u>	GL <u>1826'</u>
SEC <u>17</u> TWSP <u>22S</u> RGE <u>11W</u>	Measurements Are All From <u>KB</u>
COUNTY <u>Stafford</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Southwind Drilling, inc. (Rig # 1)</u>	CASING
SPUD <u>10/08/2019</u> COMP <u>10/17/2019</u>	SURFACE <u>8 5/8"@433'</u>
RTD <u>3700'</u> LTD <u>3700'</u>	PRODUCTION <u>None</u>
MUD UP <u>2850'</u> TYPE MUD <u>Chemical</u>	ELECTRICAL SURVEYS
	ELI WIRELINE
	DIL, DUCP, MEL

SAMPLES SAVED FROM 2900' TO RTD

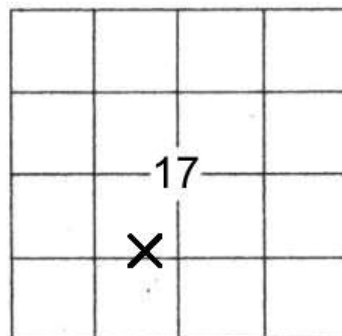
DRILLING TIME KEPT FROM 2900' TO RTD

SAMPLES EXAMINED FROM 2900' TO RTD

GEOLOGICAL SUPERVISION FROM 2960' TO RTD

GEOLOGIST ON WELL Wyatt Urban

FORMATION TOPS	LOG		SAMPLES	
Anhydrite	574	+1262	568	+1268
B. Anhydrite	596	+1240	600	+1236
Heebner	3094	-1258	3094	-1258
Toronto	3114	-1278	3112	-1276
Douglas	3130	-1294	3128	-1292
Brown Lime	3229	-1393	3228	-1392
Lansing	3254	-1418	3248	-1412
BKC	3492	-1656	3492	-1656
Simpson	3560	-1724	3563	-1727
Arbuckle	3594	-1758	3594	-1758
LTD /RTD	3701	-1865	3700	-1864



LEGEND

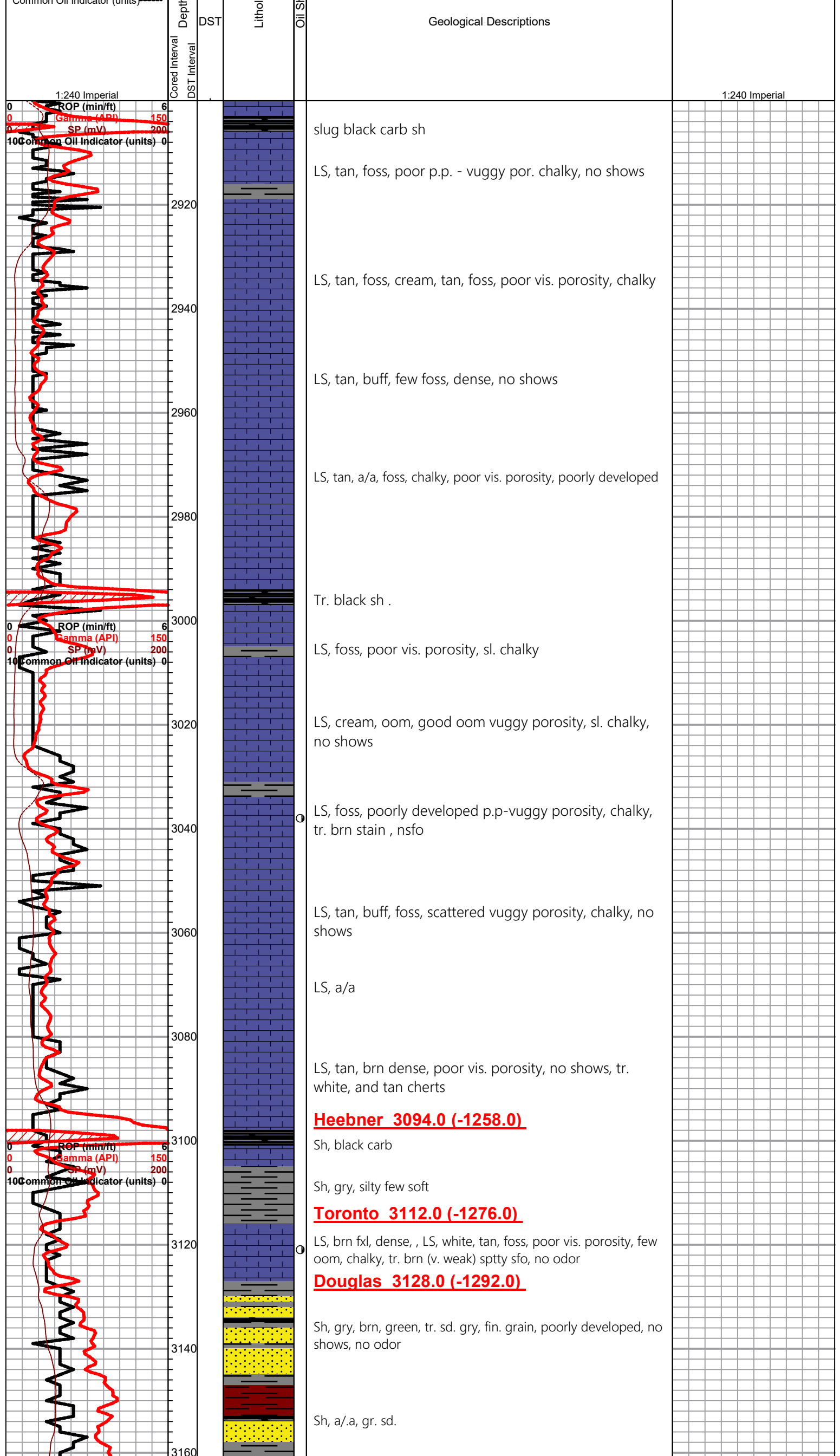
Oil Show

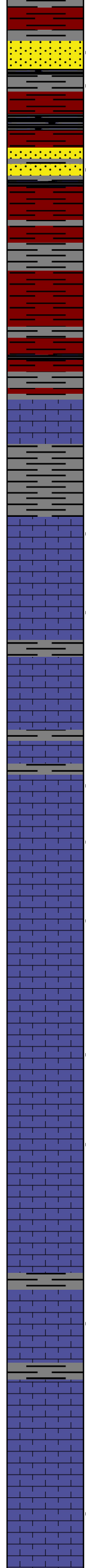
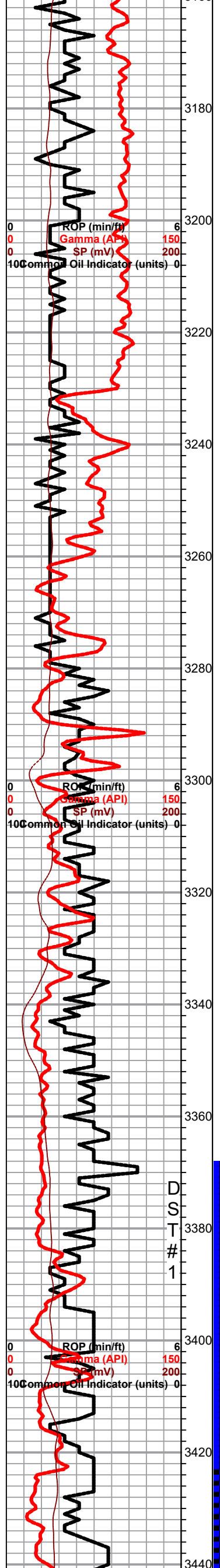
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- * Gas

DST

- DST Int
- DST alt
- Core
- tail pipe

Curve Track #1			
ROP (min/ft)	—		
Gamma (API)	—		
SP (mV)	---		
Common Oil Indicator (units)			





Sh, gry, maroon, black

Tr. gry sd., fine grain, poorly developed, tr. blk / gry stain ,

Sh, gry, green, maroon

Sh, gry, green,, (1) Sd. tan, coarse, poorly sorted, tr. sppty blk stain (caving ??)

Sh, gry, silty, maroon,

Sh, a/a, gry, maroon, soft few greenish,

Brown Lime 3228.0 (-1392.0)

LS, tan, brn fxl, cherty, no shows

Sh, gry soft silty

Lansing 3248.0 (-1412.0)

LS, white, tan, foss, poorly developed porosity, chalky, tr. sppty stain, nsfo

LS, tan, buff foss, poor porosity, chalky, tr. brn stain , nsfo ,

tr. gry silty sh

LS, foss, chalky, no shows,

Sh, gry, silty

LS, tan, buff foss p.p porosity, chalky, tr. brn sppty stain , v. wk. sppty sfo, ft. odor

LS, tan, buff foss, p.p. porosity, chalky, tr. brn sppty stain, v. wk sppty sfo, faint odor

LS, gry, foss, poor p.p. por. dk brn stain, <flakey oil >, sfo, ft. fair odor ???

Tr. white foss chert ,tr. white LS, white, dense poor vis. porosity, no shows

LS, oom, good vuggy oom porosity, v. lt. <flakey>sfo, faint - fair odor

LS, tan foss, poor v. chalky, tr. blk stain , ft. odor abd. blk carb sh.

LS, tan, buff, foss, no shows, no odor

Sh, gry slug

LS, tan, buff, ool, foss, oom, vuggy por., dolomitic, fair inxln porosity, lt. golden brn stain , sppty sfo, fair odor

Sh, brn gry

LS, tan, fxl, dense, few cherty no shows

LS, tan, crm, ool, sl. sparry calc. cement fair inner ool, porosity, dk brn stain , blk sppty sfo, sat. vis. gas bubbles

STRAP 4.15'
STB--- NO
CORRECTION
MADE

DST#1 3366-3476
30-30-30-30

1st Open
weak surface
blow & dead
flushed tool, no
blow returned

Recovery:
10' mud with oil
spts.

Pressures:
IISIP 649 psi
FSIP 376 psi
IFP 10-15 psi
FFP 16-20 psi
HSH 1618-1616
psi

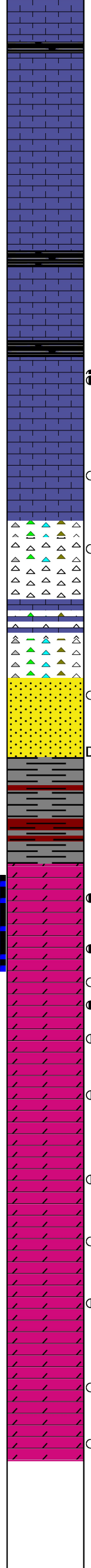
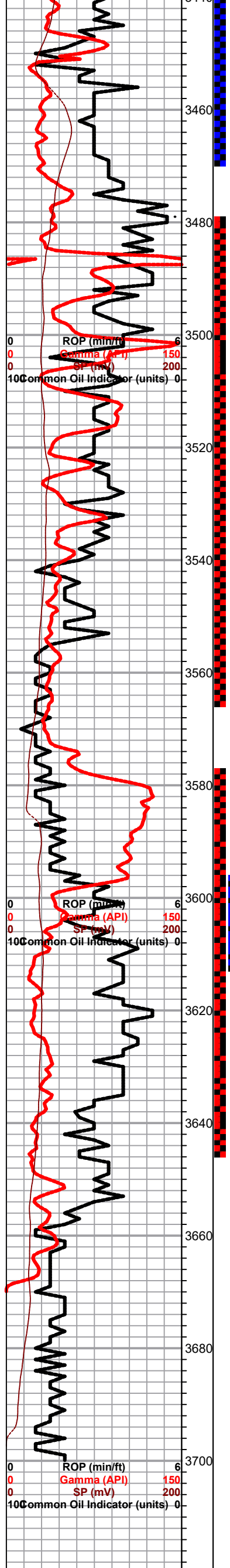
DST # 2 3469-3563
30-30-45-45

1st Open:
weak 1" blow

Recovery:
10' mud

D
S
T

1



Slug black carb Sh

LS, white, foss, ool, poor p.p.-vuggy type porosity, sl. chalky, tr. pyrite

LS, tan, fxl, chert, n/ sfo, ls. white, foss, dense, chalky

Sh, gry, maroon, tr. pyrite

Sh, maroon green silty , pyrite,
tr. LS, tan, brn scattered p.p. porosity, sfo, faint odor

LS, a/a, tr. black stain , v. chalky, tr. blk carb tr. maroon tinted LS, dense, poor vis. porosity, no shows

LS, tan, white, chert ft. white, blk stain , sfo, faint odor

Tr. LS, tan, buff, cherty, no shows

Simpson Sd. 3560.0 (-1724.0)

Tr. sd, gry, med grain , well sorted , poor vuggy porosity, dense, tr. blk stain , nsfo , no odor

Sd. tan, gry, med grain , poorly sorted, mica, lt. blk stain , blk spty (dead flakey) sfo, ??? odor in broken samples.

Sh, waxy, maroon
Sh, maroon, gry, green , waxy

<Tr. dol, in 60" sample >

Arbuckle 3594.0 (-1758.0)

Dol. tan, dense, fxl, tr. blk stain , tr. spty sfo, faint - fair odor

Dol. tan, med lg. xln , good brn spty sfo, odor tr. brn stain

Dol, tan, med - Lg, xln, good brn spty sfo, odor tr. brn stain

Dol, tan, suc. fair inxln porosity sparry calc. cement (frosted) , lt. brn stain , sfo, <spty> vis. gas on few

Dol., dol, white, crm, coarse med xln, fair inxln porosity, tr. brn stain , spty sfo, odor, tr. pyrite

Dol. white, crm, coarse suc. dol. fair inxln porosity, tr. brn stain , spty sfo, odor , tr. pyrite

Dol. white, fxl, poor porosity, tr. blk stain , nsfo, odor

Dol, suc, fair porosity, inxln lt. brn / blk stain sfo, sat., sulfuric odor in samples

Dol, white, dense, poor porosity, cherty in pts, nsfo, faint odor,

Dol, white, suc. fair inxln porosity , inxln lt. brn / blk stain sfo, sat (weak) faint odor tr. pyrite

Dol, white, fxl, dense, cherty, tr. white gry cherts, tr. vuggy white, dol. no sfo, strong sulfuric odor

DST#3 3593-3612
Packers Unseated
after 2nd Open:
MISS RUN

1st Open:
BOB 1 min.

2nd Open:
BOB 2 min.

Recovery:
950' gip
125' SLO&GCM
(30%G, 15%O, 55%M)

575' SLOCM
(2%O, 98%M)

Pressures:
ISIP 228 psi
FSIP 0 psi
IFP 23-35 psi
FFP 0
HSH 1757-1713 psi

DST # 4 3578-3622
30-45-45-60

1st Open:
BOB 15 mins.
no return

2nd Open:
BOB 1 min.
no return

Recovery:
540' GIP

124' HO&GCWM
(55%G, 35%O, 5%W, 5%M)

Pressures:
ISIP 279 psi
FSIP 395 psi
IFP 23-65 psi
FFP 72-100 psi
HSH 17681684 psi

RTD 3700.0 (-1864.0)
LTD 3701.0 (-1865.0)

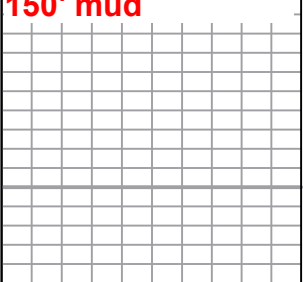
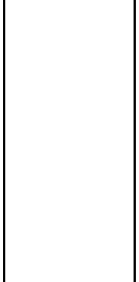
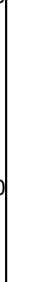
DST #5 3578-3645
MISRUN

150l mud

3720

3740

150 mud





Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
14
 2019

DST #1 **Formation: Lan H-K** **Test Interval: 3365 - 3475'** **Total Depth: 3475'**
 Time On: 12:20 10/14 Time Off: 17:39 10/14
 Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

Electronic Volume Estimate:
 6'

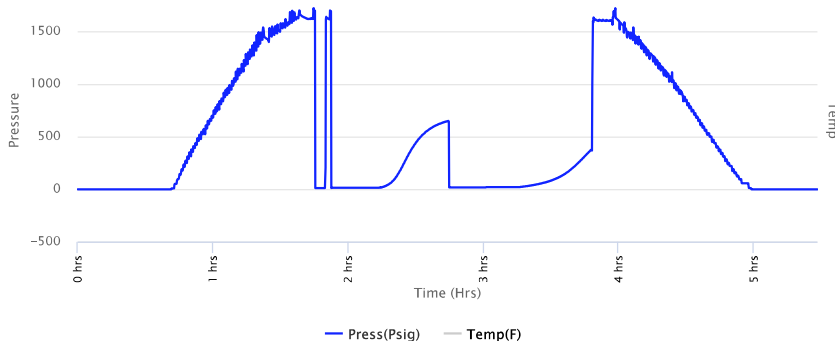
1st Open
 Minutes: 30
 Current Reading: .7" at 30 min
 Max Reading: .7"

1st Close
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

2nd Close
 Minutes: 30
 Current Reading: 0" at 30 min
 Max Reading: 0"

Inside Recorder



Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
14
 2019

DST #1 **Formation: Lan H-K** **Test Interval: 3365 - 3475'** **Total Depth: 3475'**
 Time On: 12:20 10/14 Time Off: 17:39 10/14
 Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

Recovered

Foot	BBLs
10	0.1423

Description of Fluid
 M

Gas %
 0

Oil %
 0

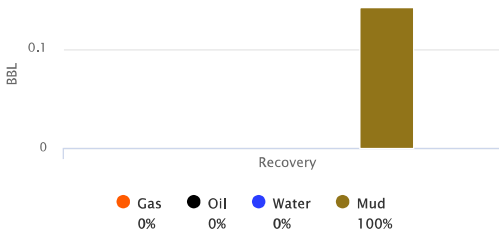
Water %
 0

Mud %
 100

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1423

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1618	PSI
Initial Flow	10 to 15	PSI
Initial Closed in Pressure	649	PSI
Final Flow Pressure	16 to 20	PSI
Final Closed in Pressure	376	PSI
Final Hydrostatic Pressure	1606	PSI
Temperature	98	°F
Pressure Change Initial Close / Final Close	42.1	%

GIP cubic foot volume: 0



Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October
14
 2019

DST #1 **Formation: Lan H-K** **Test Interval: 3365 - 3475'** **Total Depth: 3475'**
 Time On: 12:20 10/14 Time Off: 17:39 10/14
 Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

BUCKET MEASUREMENT:

1st Open: Flushed tool after 5 min built to .7
 1st Close: No Blow
 2nd Open: No Blow
 2nd Close: No Blow

REMARKS:

Surge of .8 then died in 5 min. Flushed the tool at 5 min.
 Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October

DST #1 **Formation: Lan H-K** **Test Interval: 3365 - 3475'** **Total Depth: 3475'**

14
2019

Time On: 12:20 10/14 Time Off: 17:39 10/14
Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

Down Hole Makeup

Heads Up: 28.72 FT	Packer 1: 3360.48 FT
Drill Pipe: 3361.63 FT <i>ID-3 1/2</i>	Packer 2: 3365.48 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3349.9 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3460 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 109.52	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 27 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.52 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 16 FT <i>4 1/2-FH</i>	



Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October
14
2019

DST #1 Formation: Lan H-K Test Interval: 3365 - 3475' Total Depth: 3475'

Time On: 12:20 10/14 Time Off: 17:39 10/14
Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

Mud Properties

Mud Type: Chemical **Weight:** 8.8 **Viscosity:** 62 **Filtrate:** 7.2 **Chlorides:** 4000 ppm



Company: K & N Petroleum, Inc
Lease: Norman Klepper A #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
14
 2019

DST #1 Formation: Lan H-K Test Interval: 3365 - 3475' Total Depth: 3475'
 Time On: 12:20 10/14 Time Off: 17:39 10/14
 Time On Bottom: 14:00 10/14 Time Off Bottom: 16:00 10/14

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
15
 2019

DST #2 **Formation: Viola & Simpson** **Test Interval: 3469 - 3563'** **Total Depth: 3563'**
 Time On: 05:40 10/15 Time Off: 11:05 10/15
 Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

Electronic Volume Estimate:
 14'

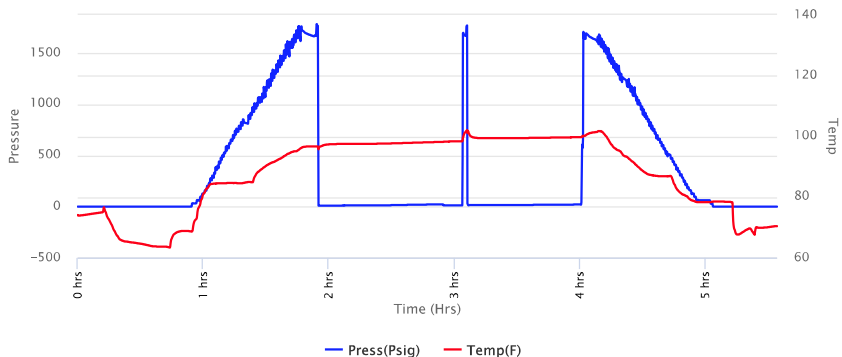
1st Open
 Minutes: 30
 Current Reading:
 1" at 30 min
 Max Reading: 1"

1st Close
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

2nd Open
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: .5"

2nd Close
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

Inside Recorder



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
15
 2019

DST #2 **Formation: Viola & Simpson** **Test Interval: 3469 - 3563'** **Total Depth: 3563'**
 Time On: 05:40 10/15 Time Off: 11:05 10/15
 Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

Recovered

Foot	BBLs
10	0.1423

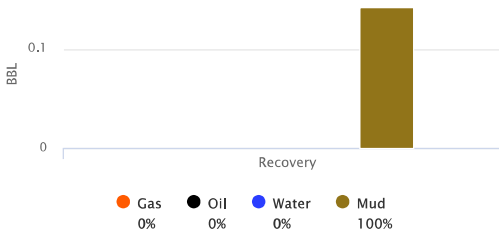
Description of Fluid
 M

Gas %	Oil %	Water %	Mud %
0	0	0	100

Total Recovered: 10 ft
 Total Barrels Recovered: 0.1423

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1675	PSI
Initial Flow	8 to 11	PSI
Initial Closed in Pressure	23	PSI
Final Flow Pressure	12 to 15	PSI
Final Closed in Pressure	21	PSI
Final Hydrostatic Pressure	1666	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	10.0	%

GIP cubic foot volume: 0



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October
15
 2019

DST #2 **Formation: Viola & Simpson** **Test Interval: 3469 - 3563'** **Total Depth: 3563'**
 Time On: 05:40 10/15 Time Off: 11:05 10/15
 Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

BUCKET MEASUREMENT:
 1st Open: Built to 1"
 1st Close: No Blow
 2nd Open: Built to .5"
 2nd Close: No Blow

REMARKS:
 Flushed tool 5 min into 2nd open
 Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October

DST #2 **Formation: Viola & Simpson** **Test Interval: 3469 - 3563'** **Total Depth: 3563'**

15
2019

Time On: 05:40 10/15 Time Off: 11:05 10/15
Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

Down Hole Makeup

Heads Up: 15.05 FT	Packer 1: 3464.48 FT
Drill Pipe: 3456.79 FT <i>ID-3 1/2</i>	Packer 2: 3469.48 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3453.9 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3556 FT
Test Tool: 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 93.52	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 19 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 63.52 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October
15
2019

DST #2 Formation: Viola & Simpson Test Interval: 3469 - 3563' Total Depth: 3563'
Time On: 05:40 10/15 Time Off: 11:05 10/15
Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

Mud Properties

Mud Type: Chemical **Weight:** 8.9 **Viscosity:** 65 **Filtrate:** 7.2 **Chlorides:** 4000 ppm



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
15
 2019

DST #2 **Formation: Viola & Simpson** **Test Interval: 3469 - 3563'** **Total Depth: 3563'**
 Time On: 05:40 10/15 Time Off: 11:05 10/15
 Time On Bottom: 07:30 10/15 Time Off Bottom: 09:30 10/15

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Tripping out of hole with test tool

DATE
 October
15
 2019

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'
 Time On: 20:00 10/15 Time Off: 00:00 01/01
 Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

Electronic Volume Estimate:
 1593'

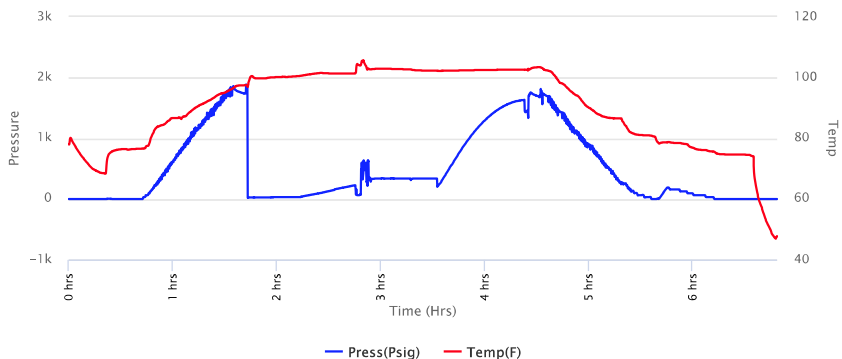
1st Open
 Minutes: 30
 Current Reading: 93.1" at 30 min
 Max Reading: 93.1"

1st Close
 Minutes: 30
 Current Reading: .9" at 30 min
 Max Reading: .9"

2nd Open
 Minutes: 45
 Current Reading: 85.5" at 45 min
 Max Reading: 100"

2nd Close
 Minutes: 40
 Current Reading: 0" at 40 min
 Max Reading: 0"

Inside Recorder



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Tripping out of hole with test tool

DATE
 October
15
 2019

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'
 Time On: 20:00 10/15 Time Off: 00:00 01/01
 Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

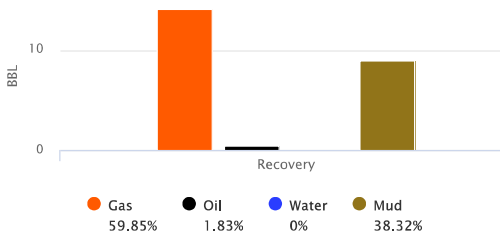
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
950	13.5185	G	100	0	0	0
125	1.77875	SLOCHGCM	30	15	0	55
575	8.18225	SLOCM	0	2	0	98

Total Recovered: 1650 ft
 Total Barrels Recovered: 23,4795

Reversed Out
 NO

Recovery at a glance



GIP cubic foot volume: 78.89566

Initial Hydrostatic Pressure	1757	PSI
Initial Flow	23 to 35	PSI
Initial Closed in Pressure	228	PSI
Final Flow Pressure	64 to 340	PSI
Final Closed in Pressure	1636	PSI
Final Hydrostatic Pressure	1713	PSI
Temperature	103	°F
Pressure Change Initial	0.0	%
Close / Final Close		



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Tripping out of hole with
 test tool

DATE
 October
15
 2019

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'
 Time On: 20:00 10/15 Time Off: 00:00 01/01
 Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

BUCKET MEASUREMENT:
 1st Open: Built to 93.1
 1st Close: Built to .9
 2nd Open: Built to 100"
 2nd Close: No Blow

REMARKS:
 appears that shortly after the 2nd open the packers unseated
 Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Tripping out of hole with
 test tool

DATE
 October

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'

15
2019

Time On: 20:00 10/15 Time Off: 00:00 01/01
Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

Down Hole Makeup

Heads Up: 18.7 FT	Packer 1: 3588 FT
Drill Pipe: 3583.96 FT <i>ID-3 1/2</i>	Packer 2: 3593 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3577.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3613 FT
Test Tool: 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 19	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 18 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Tripping out of hole with
test tool

DATE
October
15
2019

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'

Time On: 20:00 10/15 Time Off: 00:00 01/01
Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 60 **Filtrate:** 8.8 **Chlorides:** 6000 ppm



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Tripping out of hole with
 test tool

DATE
 October
15
 2019

DST #3 Formation: Arbuckle Test Interval: 3593 - 3612' Total Depth: 3612'
 Time On: 20:00 10/15 Time Off: 00:00 01/01
 Time On Bottom: 21:59 10/15 Time Off Bottom: 00:29 10/16

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
16
 2019

DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'
 Time On: 10:28 10/16 Time Off: 17:25 10/16
 Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

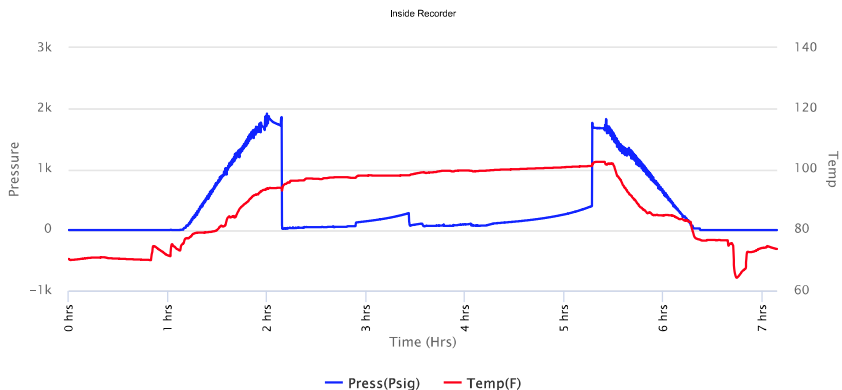
Electronic Volume Estimate: 678'

1st Open
 Minutes: 30
 Current Reading: 15.2" at 30 min
 Max Reading: 15.2"

1st Close
 Minutes: 45
 Current Reading: 0" at 45 min
 Max Reading: 0"

2nd Open
 Minutes: 45
 Current Reading: 59.1" at 45 min
 Max Reading: 59.1"

2nd Close
 Minutes: 60
 Current Reading: 0" at 60 min
 Max Reading: 0"



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
16
 2019

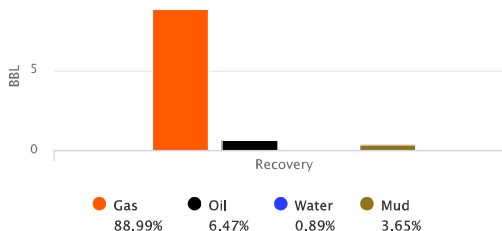
DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'
 Time On: 10:28 10/16 Time Off: 17:25 10/16
 Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
540	7.6842	G	100	0	0	0
32	0.45536	SLOCHGCM	35	5	0	60
124	1.76452	SLMCSLWCHOCG	55	35	5	5

Total Recovered: 696 ft
 Total Barrels Recovered: 9.90408

Reversed Out
 NO

Recovery at a glance



GIP cubic foot volume: 49.48655

Initial Hydrostatic Pressure	1768	PSI
Initial Flow	23 to 65	PSI
Initial Closed in Pressure	279	PSI
Final Flow Pressure	72 to 100	PSI
Final Closed in Pressure	395	PSI
Final Hydrostatic Pressure	1684	PSI
Temperature	101	°F
Pressure Change Initial	0.0	%
Close / Final Close		



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October
16
 2019

DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'

Time On: 10:28 10/16 Time Off: 17:25 10/16
 Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

BUCKET MEASUREMENT:
 1st Open: BOB in 15 min
 1st Close: No Blow
 2nd Open: BOB in 1 min
 2nd Close: No Blow

REMARKS:

Tool Sample: 10% Gas 65% Oil 5% Water 20% Mud



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 October

DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'

16
2019

Time On: 10:28 10/16 Time Off: 17:25 10/16
Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

Down Hole Makeup

Heads Up: 33.57 FT	Packer 1: 3573 FT
Drill Pipe: 3583.83 FT <i>ID-3 1/2</i>	Packer 2: 3578 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3562.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3623 FT
Test Tool: 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 44	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 43 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October
16
2019

DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'

Time On: 10:28 10/16 Time Off: 17:25 10/16
Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

Mud Properties

Mud Type: Chemical **Weight:** 9.5 **Viscosity:** 54 **Filtrate:** 10.8 **Chlorides:** 9000 ppm



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
16
 2019

DST #4 Formation: Arbuckle Test Interval: 3578 - 3622' Total Depth: 3622'
 Time On: 10:28 10/16 Time Off: 17:25 10/16
 Time On Bottom: 12:33 10/16 Time Off Bottom: 15:33 10/16

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
17
 2019

DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'
 Time On: 00:13 10/17 Time Off: 04:59 10/17
 Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

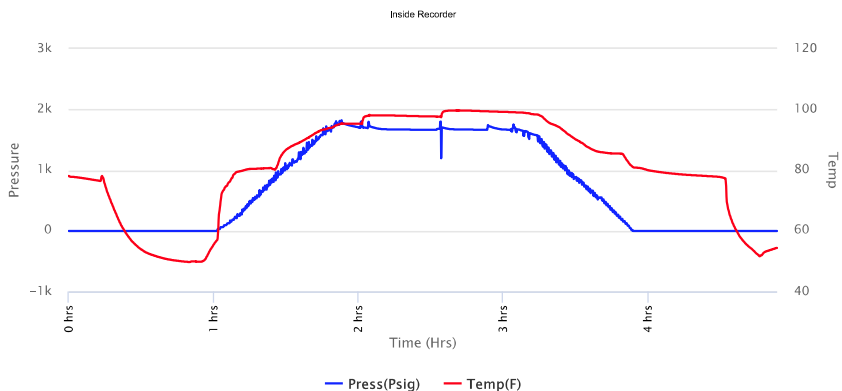
Electronic Volume Estimate:
 0'

1st Open
 N/A

1st Close
 N/A

2nd Open
 N/A

2nd Close
 N/A



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
17
 2019

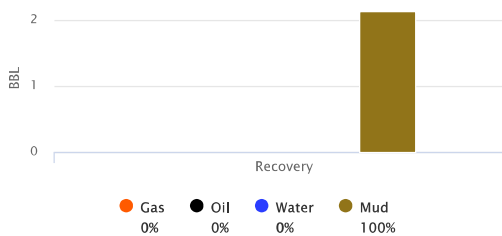
DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'
 Time On: 00:13 10/17 Time Off: 04:59 10/17
 Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
150	2.1345	M	0	0	0	100

Total Recovered: 150 ft
 Total Barrels Recovered: 2.1345

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1697	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1685	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October
17
2019

DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'
Time On: 00:13 10/17 Time Off: 04:59 10/17
Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

BUCKET MEASUREMENT:
1st Open: Miss run

REMARKS:
Packers did not hold on initial open. Pulled and and tried to set packers again they failed to hold. After talking with the Geo we tried a third time to seat the packers and they failed again.

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October

DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'

17
2019

Time On: 00:13 10/17 Time Off: 04:59 10/17
Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

Down Hole Makeup

Heads Up: 33.44 FT	Packer 1: 3573.13 FT
Drill Pipe: 3583.83 FT <i>ID-3 1/2</i>	Packer 2: 3578.13 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3562.55 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 3638 FT
Test Tool: 28.74 FT <i>ID-3 1/2-FH</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 66.87	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 24 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.87 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
County: STAFFORD
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1826 GL
Field Name: Heyen
Pool: Infield
Job Number: 400
API #: 15-185-24061-00-00

Operation:
Uploading recovery & pressures

DATE
October
17
2019

DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'

Time On: 00:13 10/17 Time Off: 04:59 10/17
Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

Mud Properties

Mud Type: Chemical **Weight:** 9.5 **Viscosity:** 54 **Filtrate:** 10.8 **Chlorides:** 9000 ppm



Company: K & N Petroleum, Inc
Lease: Norman Klepper "A" #2

SEC: 17 TWN: 22S RNG: 11W
 County: STAFFORD
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1826 GL
 Field Name: Heyen
 Pool: Infield
 Job Number: 400
 API #: 15-185-24061-00-00

Operation:
 Uploading recovery & pressures

DATE
 October
17
 2019

DST #5 Formation: Arbuckle Test Interval: 3578 - 3645' Total Depth: 3645'
 Time On: 00:13 10/17 Time Off: 04:59 10/17
 Time On Bottom: 02:05 10/17 Time Off Bottom: 03:06 10/17

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



TREATMENT REPORT

Acid Stage No. _____

Date 10/18/2019 District GB F.O. No. 60028
 Company K & N PETRO
 Well Name & No. NORMAN KLEPPER #A-2
 Location _____ Field _____
 County STAFFORD State KS

Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds of Sand
Bkdown	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
	_____ Bbl./Gal.	_____	_____	_____
Flush	_____ Bbl./Gal.	_____	_____	_____

Casing: Size 4 1/2 Type & Wt. _____ Set at _____ ft.
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____
 Formation: _____ Perf. _____ to _____

Treated from	ft. to	No. ft.	
_____	_____	_____	<u>0</u>
_____	_____	_____	<u>0</u>
_____	_____	_____	<u>0</u>

Uiner: Size _____ Type & Wt. _____ Top at _____ ft. Bottom at _____ ft.
 Cemented: Yes No Perforated from _____ ft. to _____ ft.
 Tubing: Size & Wt. _____ Swung at _____ ft.
 Perforated from _____ ft. to _____ ft.

Actual Volume of Oil / Water to Load Hole: _____ Bbl./Gal.
 Pump Trucks: No. Used: Std. 320 Sp. _____ Twin _____
 Auxiliary Equipment 327
 Personnel GREG CLARENCE
 Auxiliary Tools _____

Open Hole Size _____ T.O. _____ ft. P.B. to _____ ft.

Plugging or Sealing Materials: Type _____ Gals. _____ lb.

Company Representative KYLE N. Treater GREG C.

TIME	PRESSURES		Total Fluid Pumped	REMARKS
	Tubing	Casing		
3:30				ON LOCATION
				PUMP 50 SKS 60/40 4% GEL & 1/4# SK CELLOFLAKE @ 3589'
				PUMP 70 SKS @ 600'
				PUMP 40 SKS @ 240'
				PUMP 20 SKS @ 60'
				PLUG RATHOLE WITH 30 SKS
				PLUG MOUSE HOLE WITH 20 SKS
9:15				JOB COMPLETE
				THANK YOU!!!