Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1227493

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 # 5614
Name: Hutchinson, William S. dba Hutchinson Oil Co.
Address 1: PO BOX 521
Address 2:
City: DERBY State: KS Zip: 67037 + 0521
Contact Person: Nick Hutchinson
Phone: (316) 788-5440
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Jeff Burk
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 #:

8/23/2014	8/28/2014	8/29/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23894-00-00
Spot Description: C N/2 - N/2 - NE/4
SE - NE - NW - NE Sec. 6 Twp. 23 S. R. 12 ☐ East ☑ West
335 Feet from ☑ North / ☐ South Line of Section
1450 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: Stafford
Lease Name: T&L Well #: 2
Field Name:
Producing Formation: N/A
Elevation: Ground: 1847 Kelly Bushing: 1856
Total Vertical Depth: 3816 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 326 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: 5000 ppm Fluid volume: 1280 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Gee Oil Service
Lease Name: Rogers 1 License #: 34260
Quarter NW Sec. 34 Twp. 23 S. R. 13 ☐ East ☑ West
County: Stafford Permit #: 15-185-22015-00-00

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: 10/14/2014
☑ **Confidential Release Date:** 10/13/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/14/2014

[redacted] 1227493

Operator Name: Hutchinson, William S. dba Hutchinson Oil Co. Lease Name: T&L Well #: 2

Sec. 6 Twp. 23 S. R. 12 ☐ East ☑ West County: Stafford

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:

Attached

☑ 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	24	338	60/40 poz.	350	3%cc-2%gel.

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)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Hutchinson, William S. dba Hutchinson Oil Co.
Well Name	T&L 2
Doc ID	1227493

All Electric Logs Run

DIL
MEL
POR
SON

Form	ACO1 - Well Completion
Operator	Hutchinson, William S. dba Hutchinson Oil Co.
Well Name	T&L 2
Doc ID	1227493

Tops

Name	Top	Datum
Anhy.	672	1184
Heeb.	3200	-1344
B.L.	3335	-1497
Lansing	3353	-1497
Viola	3656	-1800
Sp.	3698	-1842
Arb	3754	-1898
LTD	3816	-1960

Form	ACO1 - Well Completion
Operator	Hutchinson, William S. dba Hutchinson Oil Co.
Well Name	T&L 2
Doc ID	1227493

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	24	338	60/40 poz.	350	3%cc-2%gel.

DRILL STEM TEST REPORT

Hutchinson Oil Co.

PO Box 521
Derby Kansas 67037

ATTN: Jeff Burk

6-23s-12w-52

T&L #2

Job Ticket: 60311 **DST#: 2**

Test Start: 2014.08.28 @ 03:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:29:30
Time Test Ended: 11:58:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2-Great Bend-52

Interval: 3754.00 ft (KB) To 3766.00 ft (KB) (TVD)
Total Depth: 3766.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

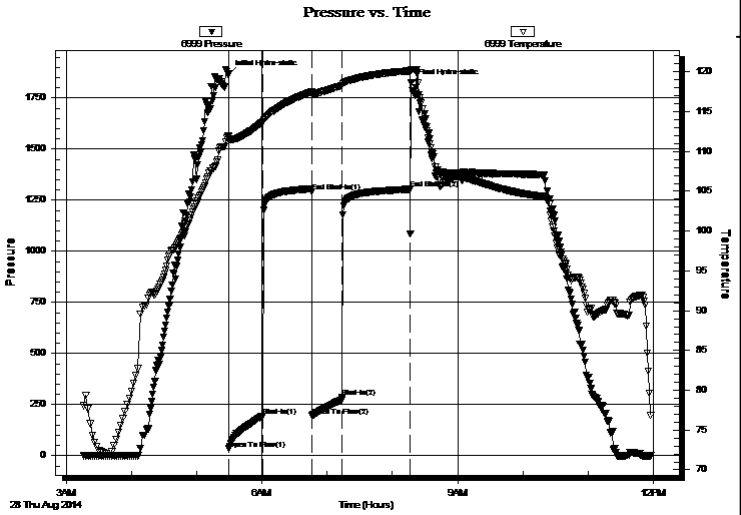
Reference Elevations: 1856.00 ft (KB)
1850.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6999 **Outside**

Press@RunDepth: 287.12 psig @ 3754.00 ft (KB)
Start Date: 2014.08.28 End Date: 2014.08.28
Start Time: 03:16:00 End Time: 11:58:00

Capacity: 5000.00 psig
Last Calib.: 2014.08.28
Time On Btm: 2014.08.28 @ 05:29:00
Time Off Btm: 2014.08.28 @ 08:17:00

TEST COMMENT: 1st Open 30 minutes Strong building blow built to bottom of a 5 gallon bucket of water in 8 minutes.
1st Shut in 45 minutes.Weak surface blow back.
2nd Open 30 minutes Strong building blow built to the bottom of a 5 gallon bucket of water in 12 minutes.
2nd Shut in 60 minutes Yes blow back 5 inches.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.53	111.89	Initial Hydro-static
1	33.12	111.52	Open To Flow (1)
32	194.40	113.67	Shut-In(1)
77	1290.66	117.43	End Shut-In(1)
77	195.72	117.22	Open To Flow (2)
105	287.12	118.30	Shut-In(2)
168	1303.36	120.11	End Shut-In(2)
168	1822.33	120.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Clean gassy oil 100%	0.44
60.00	Water cut oil 12%Oil 88%Water	0.30
441.00	Oil spotted muddy water	5.86
0.00	1%Oil 94%Water 5%Mud	0.00
0.00	315 Gas in pipe	0.00
0.00	Chlorides 19,000.2ohms@56degrees.	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil Co.

PO Box 521
Derby Kansas 67037

ATTN: Jeff Burk

6-23s-12w-52

T&L #2

Job Ticket: 60311 **DST#: 2**

Test Start: 2014.08.28 @ 03:15:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

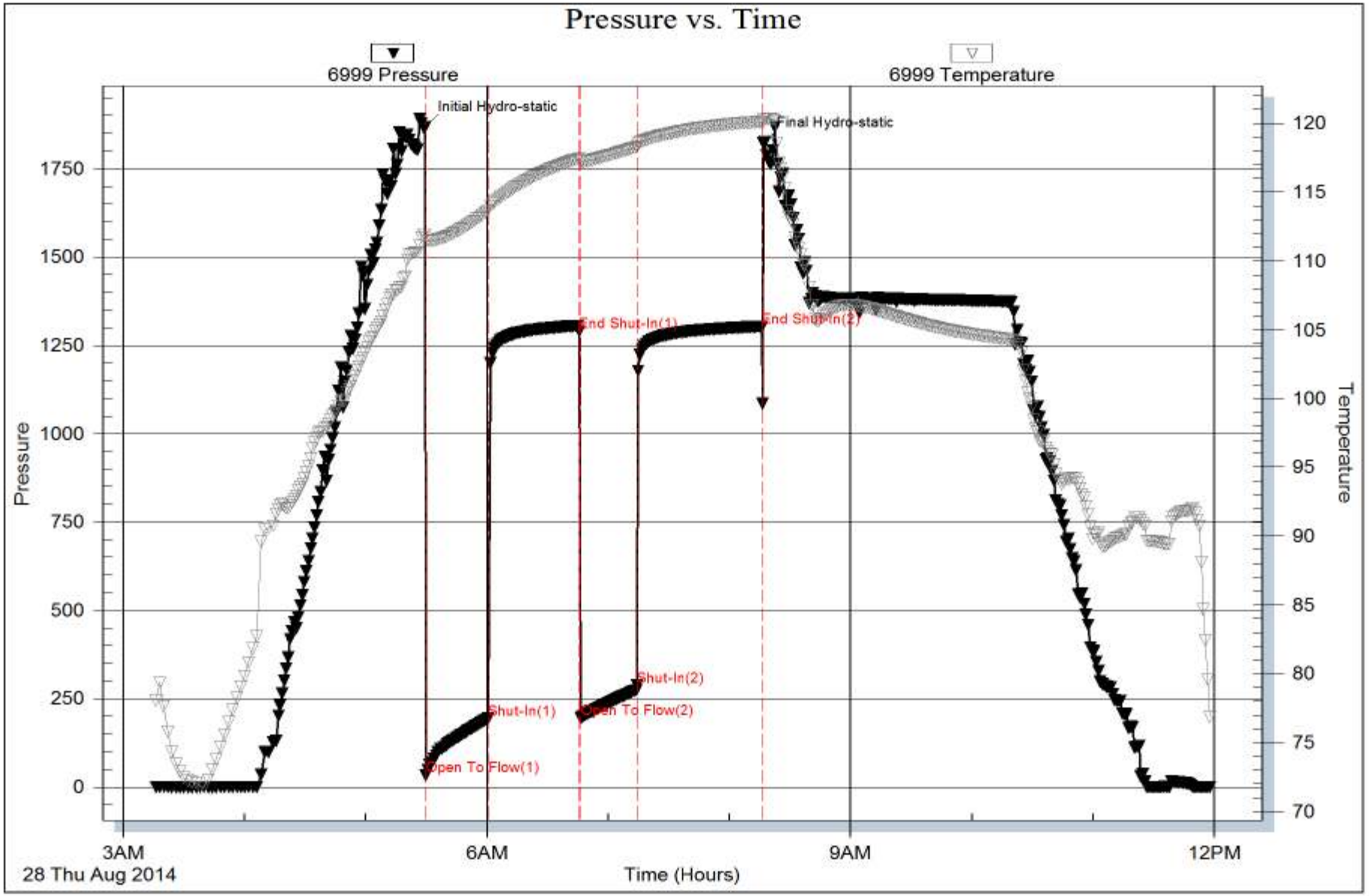
Recovery Table

Length ft	Description	Volume bbl
90.00	Clean gassy oil 100%	0.443
60.00	Water cut oil 12%Oil 88%Water	0.295
441.00	Oil spotted muddy w ater	5.855
0.00	1%Oil 94%Water 5%Mud	0.000
0.00	315 Gas in pipe	0.000
0.00	Chlorides 19,000.2ohms@56degrees.	0.000
0.00	Gravity of oil 29 corrected	0.000

Total Length: 591.00 ft Total Volume: 6.593 bbl

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

Serial #: 6999 **Outside** Hutchinson Oil Co. T&L #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 60311 Printed: 2014.08.28 @ 14:50:10

DRILL STEM TEST REPORT

Hutchinson Oil Co.

PO Box 521
Derby Kansas 67037

ATTN: Jeff Burk

6-23s-12w-52

T&L #2

Job Ticket: 60310 **DST#: 1**

Test Start: 2014.08.27 @ 10:34:00

GENERAL INFORMATION:

Formation: **Simpson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:33:00
Time Test Ended: 16:44:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Ellis
Unit No: S2-Great Bend-52

Interval: 3687.00 ft (KB) To 3732.00 ft (KB) (TVD)
Total Depth: 3732.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

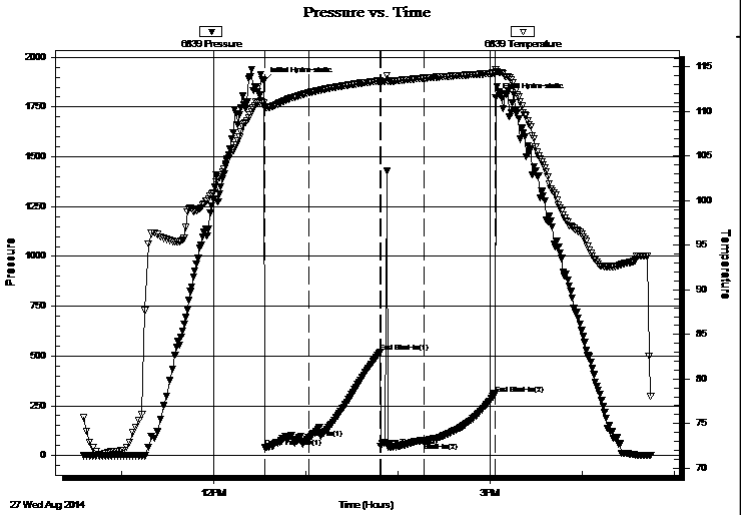
Reference Elevations: 1856.00 ft (KB)
1850.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6839 **Inside**

Press@RunDepth: 68.20 psig @ 3727.00 ft (KB)
Start Date: 2014.08.27 End Date: 2014.08.27
Start Time: 10:35:00 End Time: 16:44:30

Capacity: 5000.00 psig
Last Calib.: 2014.08.27
Time On Btm: 2014.08.27 @ 12:32:30
Time Off Btm: 2014.08.27 @ 15:03:30

TEST COMMENT: 1st Open 30 minutes Weak surface blow died off after 16 minutes.
1st Shut in 45 minutes No blow back
2nd Open 30 minutes Dead flushed tool no help.
2nd Shut in 45 minutes No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.84	110.95	Initial Hydro-static
1	39.79	110.41	Open To Flow (1)
29	88.65	112.09	Shut-In(1)
76	517.98	113.43	End Shut-In(1)
76	47.81	113.26	Open To Flow (2)
104	68.20	113.74	Shut-In(2)
151	310.31	114.31	End Shut-In(2)
151	1798.21	114.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil Co.

PO Box 521
Derby Kansas 67037

ATTN: Jeff Burk

6-23s-12w-52

T&L #2

Job Ticket: 60310 **DST#: 1**

Test Start: 2014.08.27 @ 10:34:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

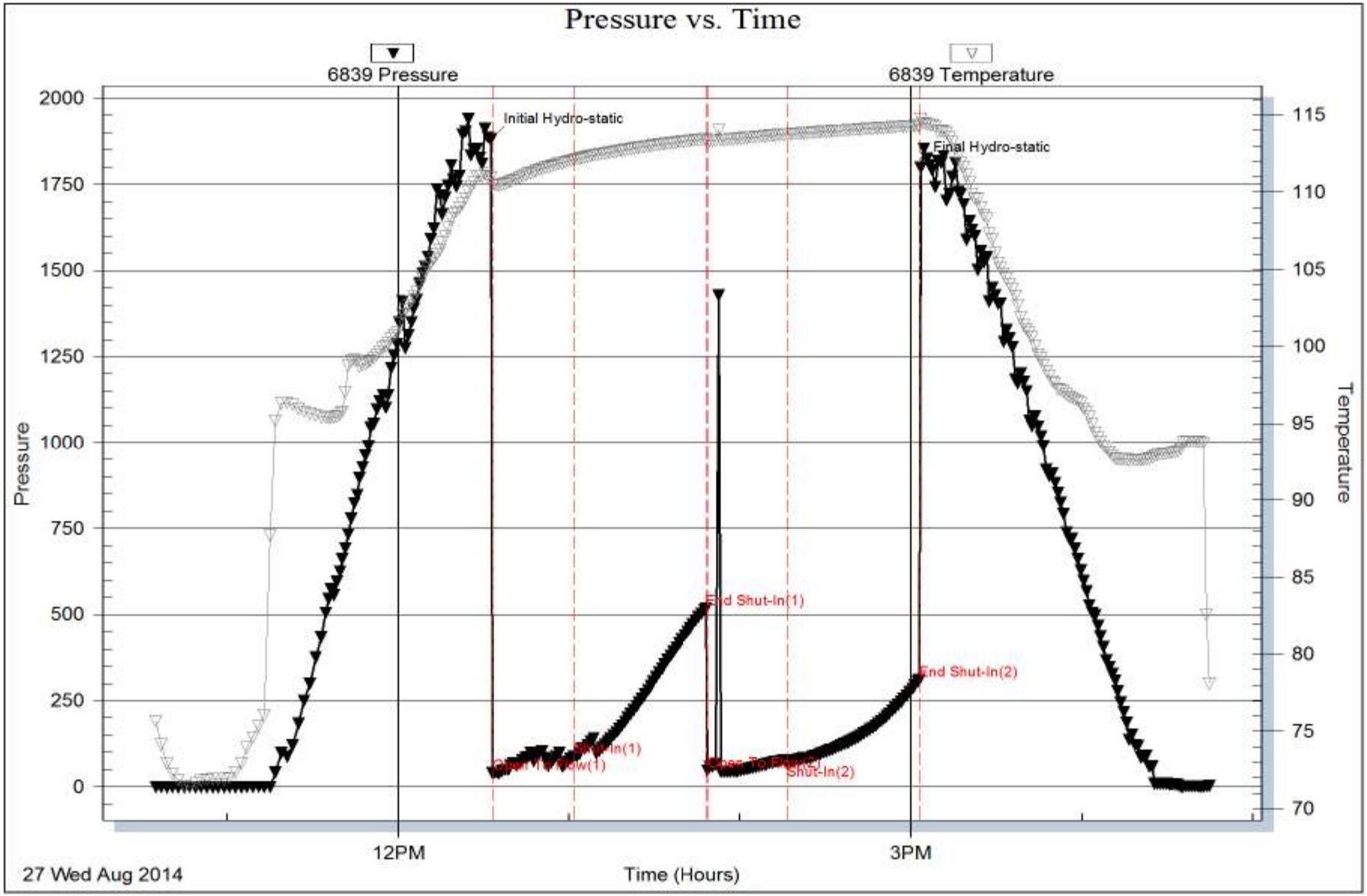
Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Serial #: 6839 **Inside** Hutchinson Oil Co. T&L #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 60310 Printed: 2014.08.28 @ 14:53:11

LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	**T & L #2**
Location:	**SE-NE-NW-NE of Section 6-23s-12w - Stafford County, KS**
License Number:	**KCC Licence#: 5614**
Region:	**Hudson-SW**
Spud Date:	**8/23/2014**
Drilling Completed:	**8/29/14**
Surface Coordinates:	**SE NE NW NE (335' FNL & 1450' FEL) of Section 06-23s-12w**
Bottom Hole Coordinates:	**Same as Surface Coordinates**
Ground Elevation (ft):	**1847'**
K.B. Elevation (ft):	**1856'**
Logged Interval (ft):	**2800' To: 3816'**
Total Depth (ft):	**3815'**
Formation:	**Arbuckle Dolomite @ Total Depth**
Type of Drilling Fluid:	**Andy's Mud Company (Chemical Drispac)**

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Hutchinson Oil Company
Address: P.O. Box #521
Hutchinson, KS 67037

GEOLOGIST

Name: Eli J. Felts & Jeffrey Burk, Consulting Petroleum Geologists
Company: PETERRA Energy Services
Address: 110 South Main, Suite #510
Wichita, KS 67202
Phone: (316) 269-2015

Drilling Report

8/19/14
Langfeld was on location digging haul-off reserve pit. Kelly's Water Well Service drilled a 57' deep water well with a 54' static water level.

8/22/14
Sterling Drilling Rig #4 moving in. Planning to rig up and spud Saturday (8/23/14)

8/23/14
Spudded @ 8:00 A.M. Drilled 338' (KB) of 12 ¼ inch surface hole (Survey showed 1 degree). Tallied and ran 8 jts. of new 8 5/8" (24#) surface casing (Strap welded the bottom 3 jts. and tack remainder). Basic Energy Service cemented w/ 350 sxs. of 60/40 poz mix, (3% cc, 2% gel). Plug was down @ 4:30 P.M. Cement did circulate. W.O.C. (10 hours).

8/24/14
Drill out under surface @ 2:30 A.M. Drilled to 445' and noticed that the surface casing had movement. Checked cement on the back of surface casing and the cement had dropped down 20'. Pulled the bit and drill pipe. Basic on location and ran 1" to 25'. Cemented w/ 100 sxs. of Common cement (3% cc) @ 25'. W.O.C. (4 hours). Will drill out under surface again at 3:00 P.M.

8/25/14
Drilling @ 1783' @ 7:00 A.M. Drillers pick on the top of the Anhydrite was: 666 (+1190) (+1 to T&L # 1).

8/26/14
Displaced mud system @ 2916' @ 1:30 A.M. Drilling @ 3111' @ 7:00A.M. CFS on the "B" & "D" zones. Noted a slight show free oil, gas bubbles, and the zones were very shaley. CFS on the "G" zone. Noted a weak show of dark oil with some gas bubbles. CFS on the "H", "I", "J", & "K" zones. All had fair shows of oil & gas w/ a faint odor. Elected not to test the LKC zones due to being 8' low to the offset,T&L #1.

8/27/14
Drill to 3732' (Simpson Sand). Had a good drilling break. CFS showed abundant loose sand grains, well sorted, w/ a slight show of dark fee oil, and a faint odor. DST #1 (3687'-3732') covering the Simpson Sand. Ran test intervals as follows: 30"-45"-30"-45". The strap on the pipe was 1.85' short to board and the straight hole survey was off ¾ degree. Finished DST #1 and went back to drilling. CFS @ 3755', 3758', 3763', & 3766'. Noted that the Arbuckle Dolomite had fair xln porosity and a fair show of free oil & odor.

8/28/14
Ran DST #2 (3754'-3766' covering the Arbuckle with time intervals of: 30"-45"-30"-60". Test recovered: 315' GIP, 90' clean gassy oil, 60' water cut oil (12% oil 88% water), and 441' oil spotted muddy water (1% oil 99% water: ISIP 1291# FSIP 1303#. Preparing to drill ahead to 3815' and run E-Logs.

8/29/14
Finished running electric logs. After reviewing the logs and comparing them to the offset, T & L #1, it was decided to plug the well. Well was plugged in accordance with KCC (Dodge City) instructions.

DST Reports

DST #1 3687'-3732' (Simpson Sand)
OP 30"-45"-30"-45"
1st open: Weak surface blow died off in 16 minutes.
1st shut in: no blow back
2nd open: Dead, flushed tool, no help
2nd shut in: No blow back
REC: 5' drilling mud
IHP: 1879#
IFP: 39#-88#
ISIP: 517#
FFP: 47#-68#
FSIP: 310#
FHP: 1798#

DST #2 3754'-3766' (Arbuckle)
OP 30"-45"-30"-60"
1st open: fair blow - BOB 8"
1st shut in: sl surface blow back
2nd open: fair blow - BOB 12"
2nd shut in: 5' blow back
REC: 315' GIP
90' clean gassy oil
60' water cut oil (12% oil, 88% wtr)
441' oil spt mdy wtr (1% oil 94% wtr, 5% mud)
IHP: 1866#
IFP: 33#-194#
ISIP: 1290#
FFP: 195#-287#
FSIP: 1303#
FHP: 1822#
BHT: 120 degrees
Clorides: 19,000 ppm (RW .20 @ 100 degrees)

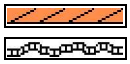
Comments

Several shows were noted in the Lansing/KC while drilling this well. Due to the amount of data previously obtained from the T & L #1 and, due to the low structural position to the offset well (T&L #1), those zones were not tested. Additionally, due to the negative results recovered from DST #1 and DST #2, it was decided by all parties involved to plug this well as non-commercial. The Kansas City shows, previously noted, will be further evaluated in the, structurally higher, T & L #1 well.

Respectfully submitted,

PETERRA Energy Services
Eli J. Felts, Petroleum Geologist
Jeffrey A. Burk, Petroleum Geologist

ROCK TYPES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Bent

Brec

Cht

Clyst


Coal

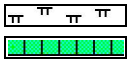
Congl

Dol

Gyp

Igne


Lmst

Meta

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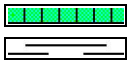
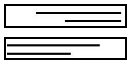

Salt

Shale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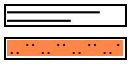
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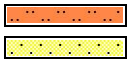

Sltst

Ss

Till

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY
- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

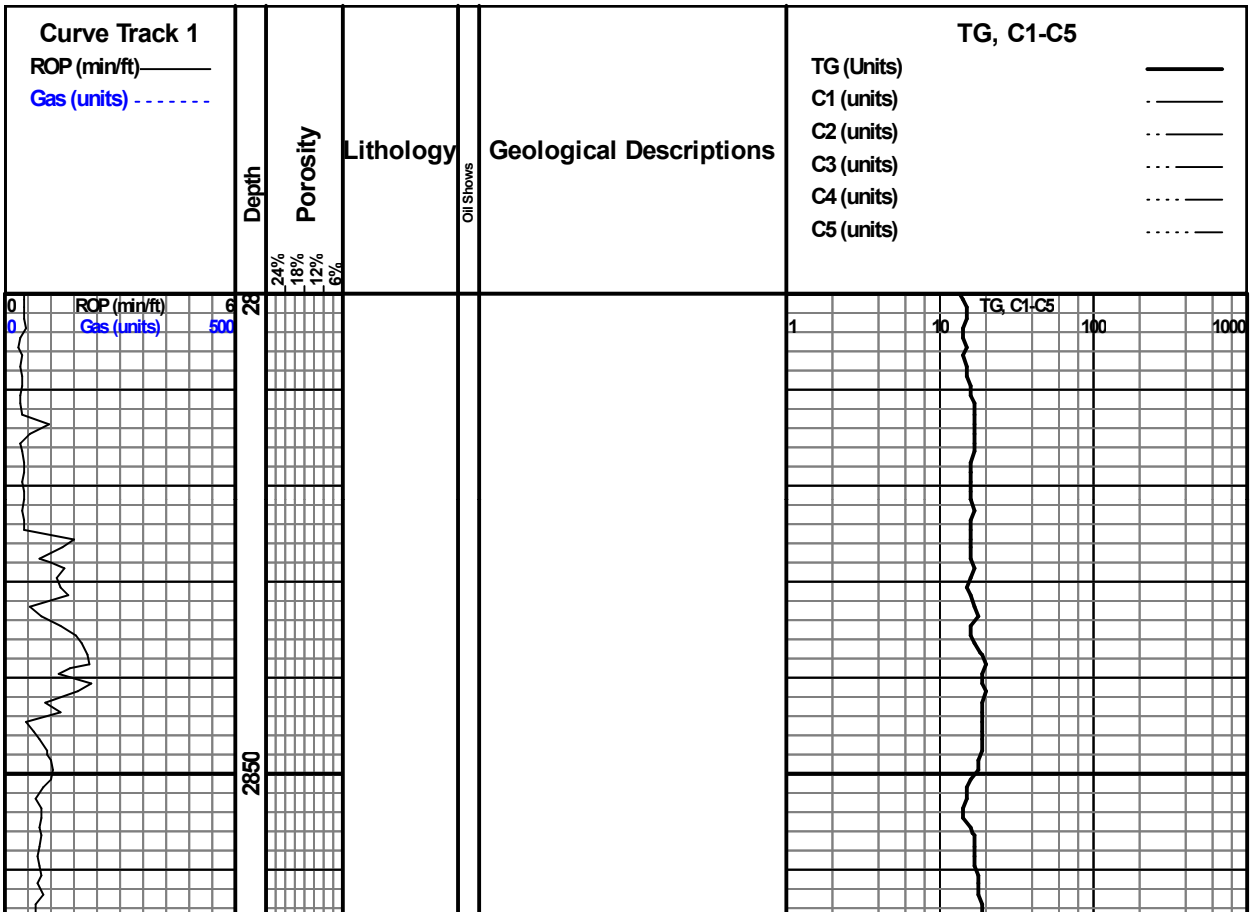
SORTING
- Well
- Moderate
- Poor

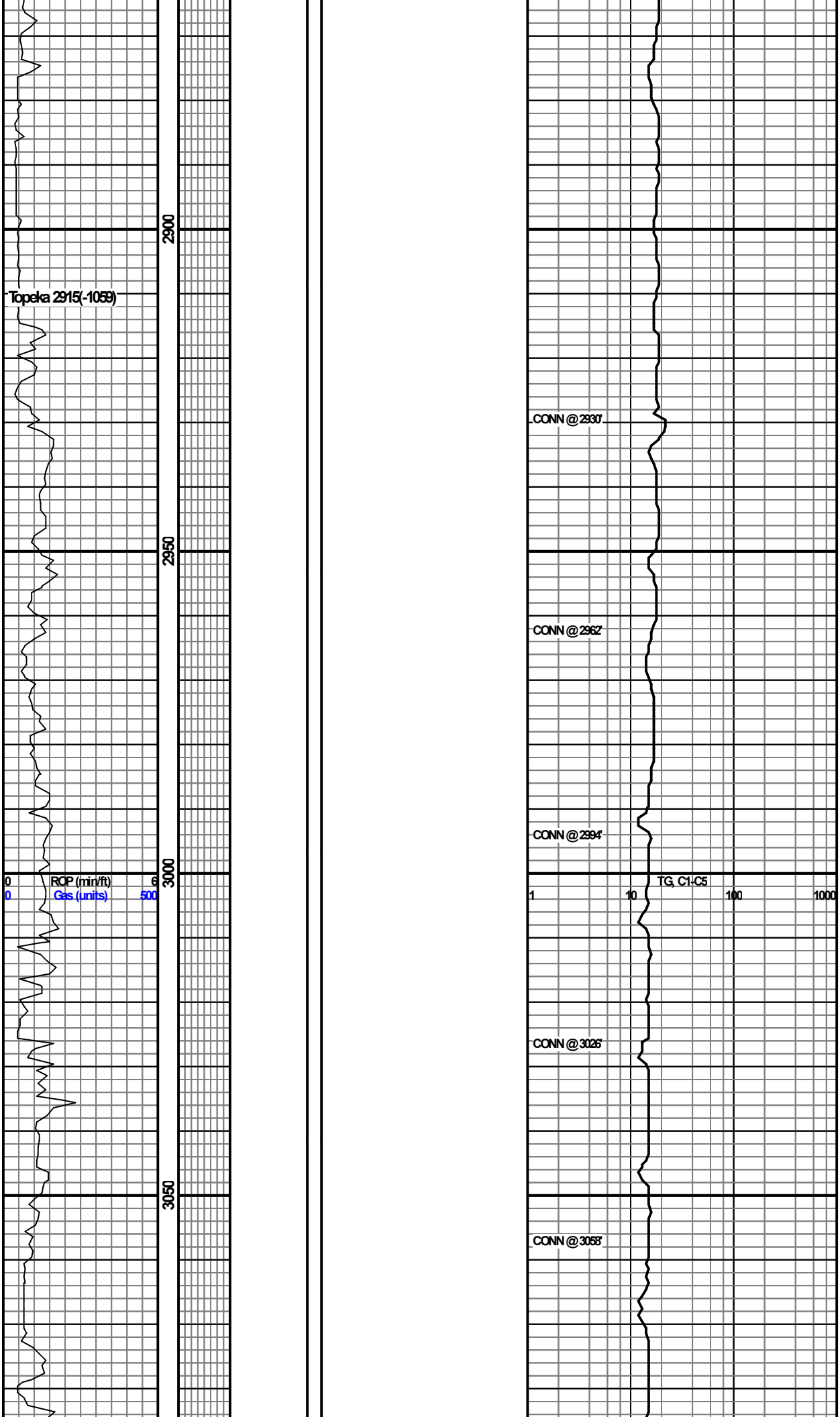
ROUNDING
- Rounded
- Subrnd
- Subang
- Angular

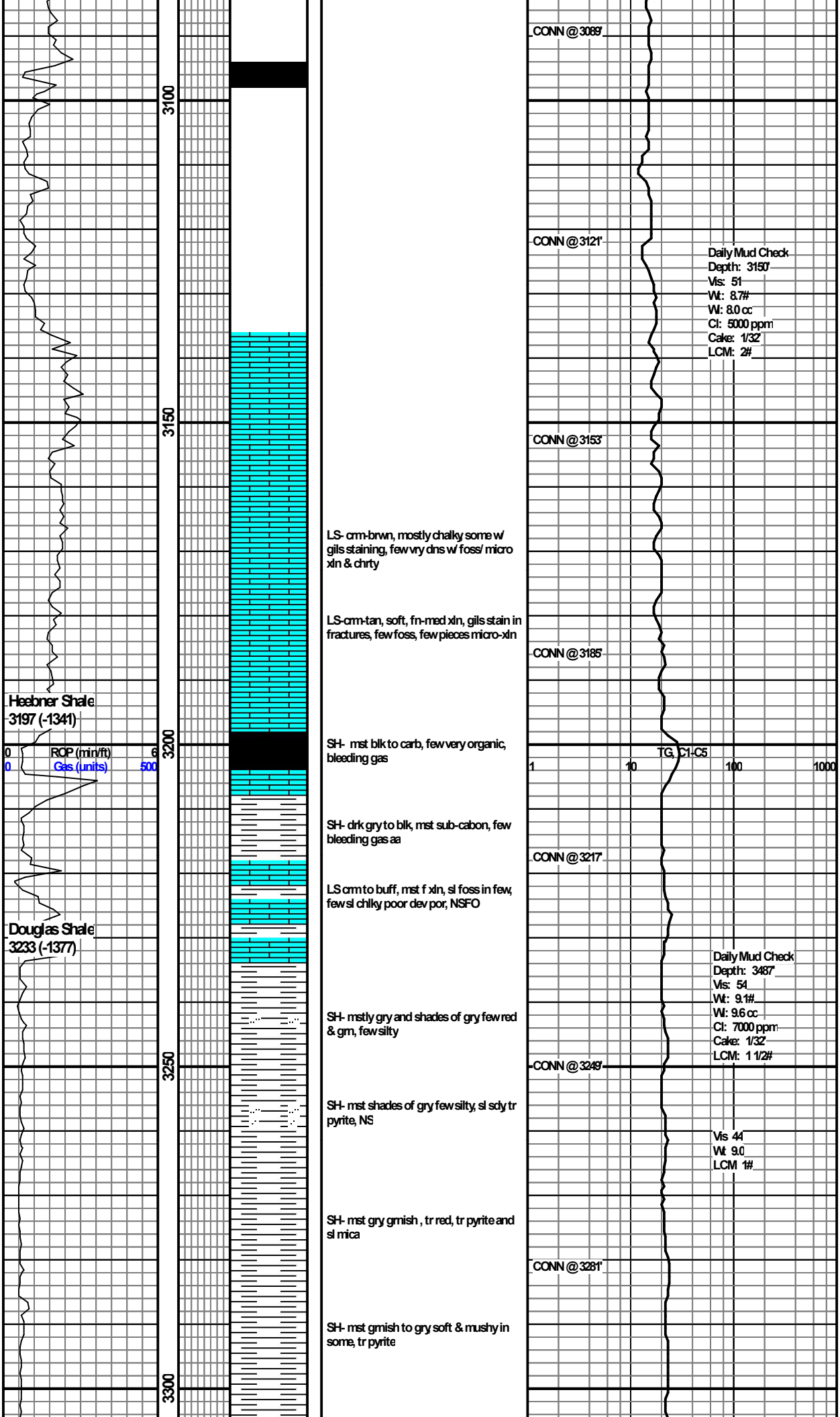
OIL SHOW
- Even
- Spotted
- Ques
- Dead
- Gas show
- New symbol

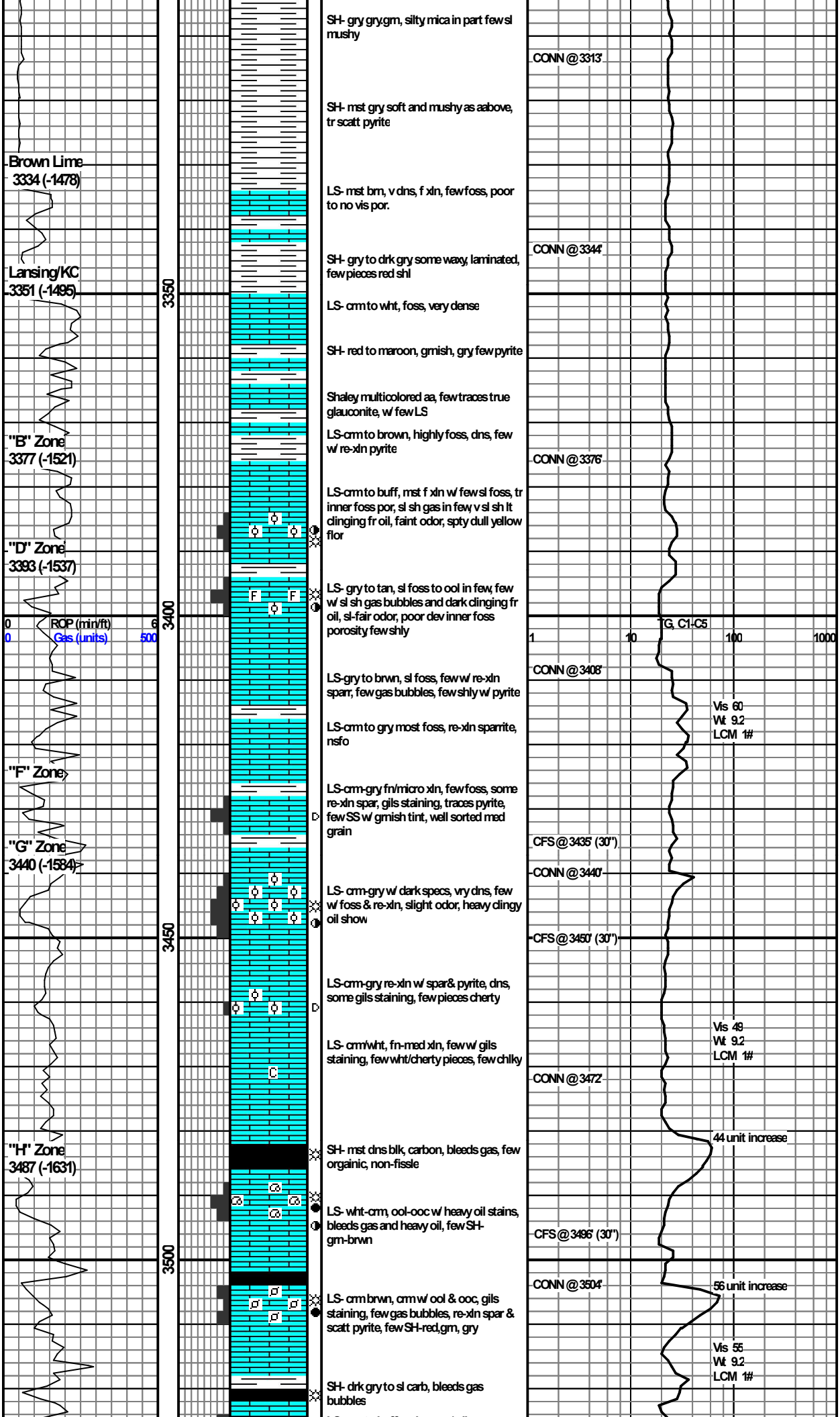
INTERVAL
- Core
- Dst
- Dst

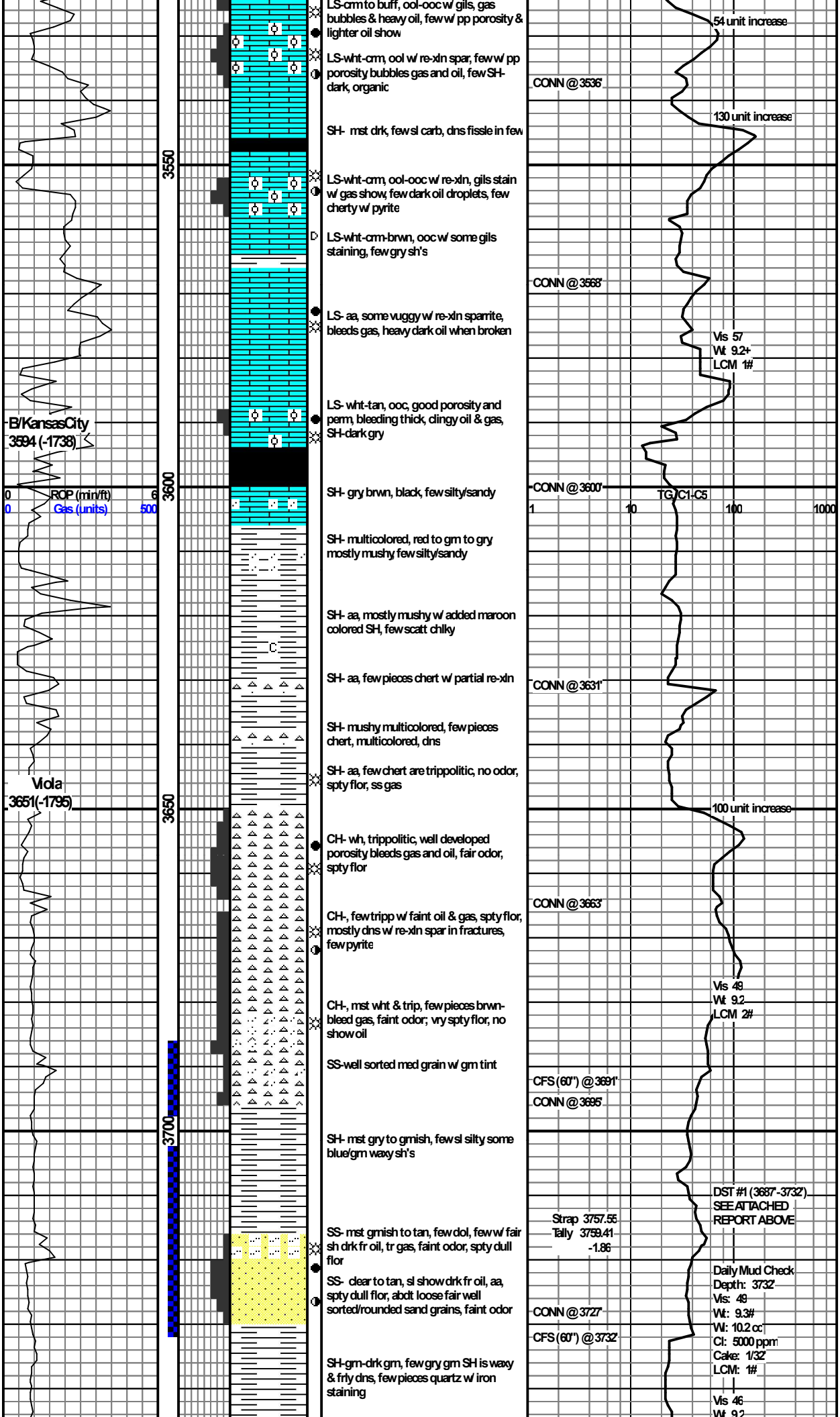
EVENT
- pipesymbol
- Rft
- Sidewall

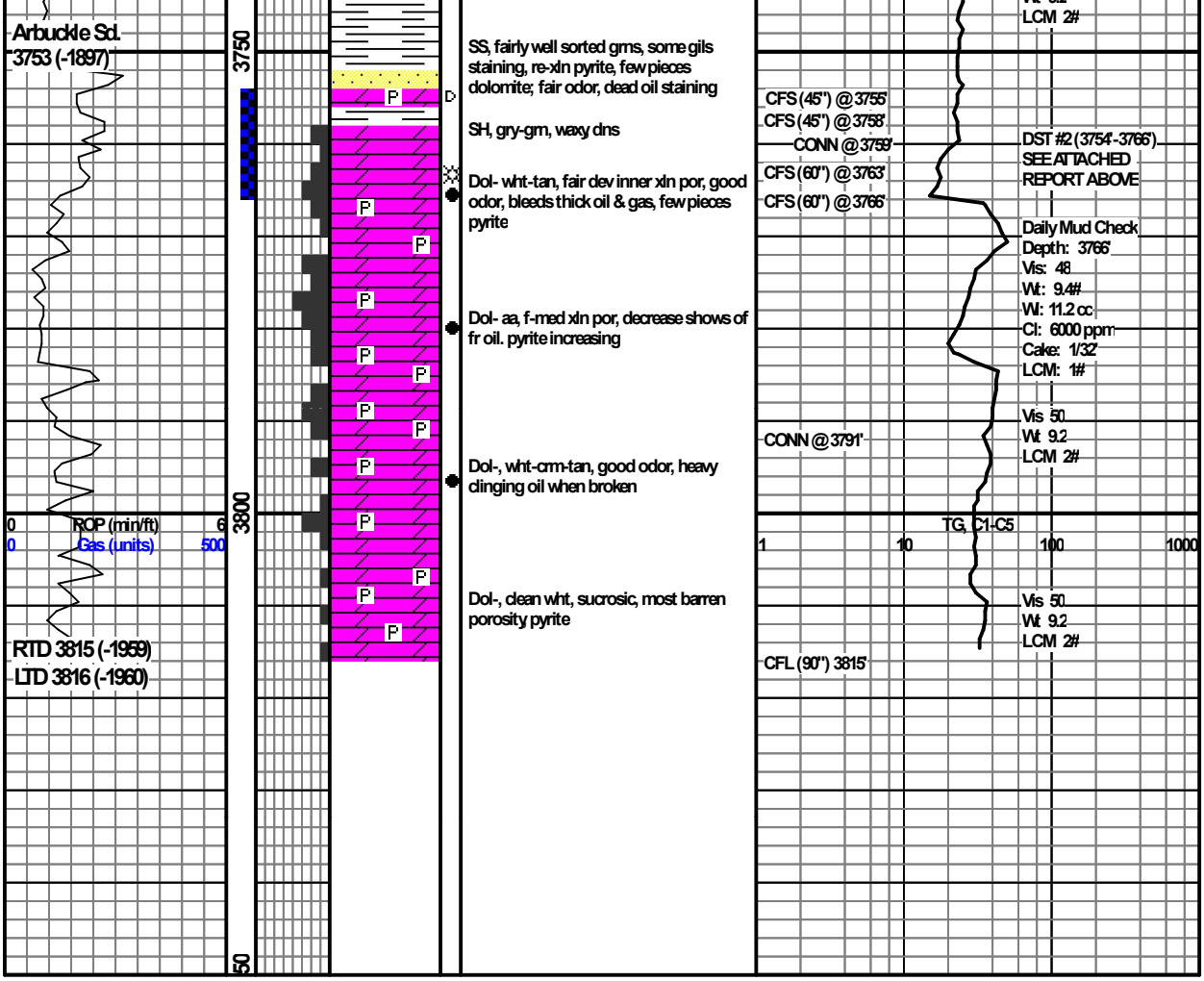



2900
2950
3000
3050
Topeka 2915(-1059)
0
ROP (min/ft)
6
0
Gas (units)
500
CONN @ 2930'
CONN @ 2962'
CONN @ 2994'
CONN @ 3026'
CONN @ 3058'
TG, C1-C5
1
10
100
1000


3100
3150
3200
3250
3300
Heebner Shale
3197 (-1341)
Douglas Shale
3233 (-1377)
0 ROP (min/ft) 6
0 Gas (units) 500
LS- crm-brwn, mostly chalky some w/ gils staining, few vry dns w/ foss/ micro xln & chrty
LS-crm-tan, soft, fn-med xln, gils stain in fractures, few foss, few pieces micro-xln
SH- mst blk to carb, few very organic, bleeding gas
SH- drk gry to blk, mst sub-cabon, few bleeding gas aa
LS crm to buff, mst f xln, sl foss in few, few sl chlky poor dev por, NSFO
SH- mstly gry and shades of gry few red & grn, few silty
SH- mst shades of gry few silty, sl sdy tr pyrite, NS
SH- mst gry grnish , tr red, tr pyrite and sl mica
SH- mst grnish to gry soft & mushy in some, tr pyrite
CONN @ 3089'
CONN @ 3121'
Daily Mud Check
Depth: 3150'
Vis: 51
Wt: 8.7#
WI: 8.0 cc
Cl: 5000 ppm
Cake: 1/32"
LCM: 2#
CONN @ 3153'
CONN @ 3185'
TG, C1-C5
1 10 100 1000
CONN @ 3217'
Daily Mud Check
Depth: 3487'
Vis: 54
Wt: 9.1#
WI: 9.6 cc
Cl: 7000 ppm
Cake: 1/32"
LCM: 1 1/2#
CONN @ 3249'
Vis 44
Wt 9.0
LCM 1#
CONN @ 3281'


Brown Lime
3334 (-1478)
Lansing/KC
3351 (-1495)
"B" Zone
3377 (-1521)
"D" Zone
3393 (-1537)
"F" Zone
"G" Zone
3440 (-1584)
"H" Zone
3487 (-1631)
3350
3400
3450
3500
0 ROP (min/ft) 6
0 Gas (units) 500
SH- gry gry,grn, silty mica in part few sl mushy
SH- mst gry soft and mushy as aabove, tr scatt pyrite
LS- mst brn, v dns, f xln, few foss, poor to no vis por.
SH- gry to drk gry some waxy, laminated, few pieces red shl
LS- crm to wht, foss, very dense
SH- red to maroon, grnish, gry few pyrite
Shaley multicolored aa, few traces true glauconite, w/ few LS
LS-crm to brown, highly foss, dns, few w/ re-xln pyrite
LS-crm to buff, mst f xln w/ few sl foss, tr inner foss por, sl sh gas in few, v sl sh lt clinging fr oil, faint odor, spty dull yellow flor
LS- gry to tan, sl foss to ool in few, few w/ sl sh gas bubbles and dark clinging fr oil, sl-fair odor, poor dev inner foss porosity few shly
LS-gry to brwn, sl foss, few w/ re-xln sparr, few gas bubbles, few shly w/ pyrite
LS-crm to gry most foss, re-xln sparrite, nsfo
LS-crm-gry fn/micro xln, few foss, some re-xln spar, gils staining, traces pyrite, few SS w/ grnish tint, well sorted med grain
LS- crm-gry w/ dark specs, vry dns, few w/ foss & re-xln, slight odor, heavy clingy oil show
LS-crm-gry re-xln w/ spar& pyrite, dns, some gils staining, few pieces cherty
LS- crm/wht, fn-med xln, few w/ gils staining, few wht/cherty pieces, few chlky
SH- mst dns blk, carbon, bleeds gas, few orgainic, non-fissle
LS- wht-crm, ool-ooc w/ heavy oil stains, bleeds gas and heavy oil, few SH-grn-brwn
LS- crm brwn, crm w/ ool & ooc, gils staining, few gas bubbles, re-xln spar & scatt pyrite, few SH-red,grn, gry
SH- drk gry to sl carb, bleeds gas bubbles
CONN @ 3313'
CONN @ 3344'
CONN @ 3376'
TG, C1-C5
1 10 100 1000
CONN @ 3408'
Vis 60
Wt 9.2
LCM 1#
CFS @ 3435' (30")
CONN @ 3440'
CFS @ 3450' (30")
Vis 49
Wt 9.2
LCM 1#
CONN @ 3472'
44 unit increase
CFS @ 3496' (30")
CONN @ 3504'
56 unit increase
Vis 55
Wt 9.2
LCM 1#


LS-crm to buff, ool-ooc w/ gils, gas bubbles & heavy oil, few w/ pp porosity & lighter oil show
LS-wht-crm, ool w/ re-xln spar, few w/ pp porosity bubbles gas and oil, few SH-dark, organic
SH- mst drk, few sl carb, dns fissle in few
LS-wht-crm, ool-ooc w/ re-xln, gils stain w/ gas show, few dark oil droplets, few cherty w/ pyrite
LS-wht-crm-brwn, ooc w/ some gils staining, few gry sh's
LS- aa, some vuggy w/ re-xln sparrite, bleeds gas, heavy dark oil when broken
LS- wht-tan, ooc, good porosity and perm, bleeding thick, clingy oil & gas, SH-dark gry
SH- gry brwn, black, few silty/sandy
SH- multicolored, red to grn to gry mostly mushy, few silty/sandy
SH- aa, mostly mushy w/ added maroon colored SH, few scatt chlky
SH- aa, few pieces chert w/ partial re-xln
SH- mushy multicolored, few pieces chert, multicolored, dns
SH- aa, few chert are trippolitic, no odor, spty flor, ss gas
CH- wh, trippolitic, well developed porosity, bleeds gas and oil, fair odor, spty flor
CH-, few tripp w/ faint oil & gas, spty flor, mostly dns w/ re-xln spar in fractures, few pyrite
CH-, mst wht & trip, few pieces brwn-bleed gas, faint odor; vry spty flor, no show oil
SS-well sorted med grain w/ grn tint
SH- mst gry to grnish, few sl silty some blue/grn waxy sh's
SS- mst grnish to tan, few dol, few w/ fair sh drk fr oil, tr gas, faint odor, spty dull flor
SS- clear to tan, sl show drk fr oil, aa, spty dull flor, abdt loose fair well sorted/rounded sand grains, faint odor
SH-grn-drk grn, few gry grn SH is waxy & frly dns, few pieces quartz w/ iron staining
B/KansasCity 3594 (-1738)
Viola 3651(-1795)
3550
3600
3650
3700
0 ROP (min/ft) 6
0 Gas (units) 500
54 unit increase
CONN @ 3536'
130 unit increase
CONN @ 3568'
Vis 57
Wt 9.2+
LCM 1#
CONN @ 3600'
TG/C1-C5
1 10 100 1000
CONN @ 3631'
100 unit increase
CONN @ 3663'
Vis 49
Wt 9.2
LCM 2#
CFS (60") @ 3691'
CONN @ 3695'
DST #1 (3687'-3732')
SEE ATTACHED
REPORT ABOVE
Strap 3757.55
Tally 3759.41
-1.86
Daily Mud Check
Depth: 3732'
Vis: 49
Wt: 9.3#
Wl: 10.2 cc
Cl: 5000 ppm
Cake: 1/32"
LCM: 1#
CONN @ 3727'
CFS (60") @ 3732'
Vis 46
Wt 9.2


Arbuckle Sd.
3753 (-1897)
3750
3800
0
ROP (min/ft)
6
0
Gas (units)
500
RTD 3815 (-1959)
LTD 3816 (-1960)
SS, fairly well sorted grns, some gils staining, re-xln pyrite, few pieces dolomite; fair odor, dead oil staining
SH, gry-grn, waxy dns
Dol- wht-tan, fair dev inner xln por, good odor, bleeds thick oil & gas, few pieces pyrite
Dol- aa, f-med xln por, decrease shows of fr oil. pyrite increasing
Dol-, wht-crm-tan, good odor, heavy clinging oil when broken
Dol-, clean wht, sucrosic, most barren porosity pyrite
CFS (45") @ 3755'
CFS (45") @ 3758'
CONN @ 3759'
CFS (60") @ 3763'
CFS (60") @ 3766'
CONN @ 3791'
CFL (90") 3815'
LCM 2#
DST #2 (3754'-3766')
SEE ATTACHED
REPORT ABOVE
Daily Mud Check
Depth: 3766'
Vis: 48
Wt: 9.4#
Wl: 11.2 cc
Cl: 6000 ppm
Cake: 1/32"
LCM: 1#
Vis 50
Wt 9.2
LCM 2#
TG, C1-C5
1
10
100
1000
Vis 50
Wt 9.2
LCM 2#

BASIC ENERGY SERVICES

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005512	1718	08/26/2014

INVOICE NUMBER
91577660

Pratt (620) 672-1201

BILL TO
HUTCHINSON OIL COMPANY
PO BOX 521
DERBY
KS US 67037
ATTN:

JOB SITE
LEASE NAME: T and L 2
LOCATION:
COUNTY: Stafford
STATE: KS
JOB DESCRIPTION: Cement-New Well Casing/Pi
JOB CONTACT:

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40758784	20920		Net - 30 days	09/25/2014

For Service Dates: 08/23/2014 to 08/23/2014

0040758784

171811302A Cement-New Well Casing/Pi 08/23/2014
Cement 8 5/8 Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	350.00	EA	7.75	2,710.82 T
Celloflake	88.00	EA	2.39	210.15 T
Calcium Chloride	903.00	EA	0.68	611.97 T
Sugar	100.00	EA	3.23	322.72 T
"Wooden Cmt Plug, 8 5/8"""	1.00	EA	103.27	103.27
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.74	96.01
Heavy Equipment Mileage	70.00	MI	4.52	316.26
"Proppant & Bulk Del. Chgs., per ton mil	527.00	EA	1.42	748.32
Depth Charge; 0-500'	1.00	EA	645.43	645.43
Blending & Mixing Service Charge	350.00	BAG	0.90	316.26
Plug Container Util. Chg.	1.00	EA	161.36	161.36
"Service Supervisor, first 8 hrs on loc.	1.00	EA	112.95	112.95

8/29/14
CK# 26298
6,631.20

8/23/14 350 sxs 60/40 Poz Mix (Surface)

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	6,355.52
TAX	275.68
INVOICE TOTAL	6,631.20

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 11302 A

DATE TICKET NO.

6 33S 12W

DATE OF JOB 8-23-14 DISTRICT	NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Hutchinson Oil Company	LEASE T and L WELL NO. 2
ADDRESS	COUNTY Stafford STATE ks
CITY STATE	SERVICE CREW Scott, Josh, Orion
AUTHORIZED BY Steve Hutchinson	JOB TYPE: 8 5/8 Surface pipe CNW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
36970	.5				
37708 20470	.5				
70959 19518	.5				

	DATE	AM PM	TIME
TRUCK CALLED			
ARRIVED AT JOB	8-23-14	AM PM	2:30
START OPERATION	8-23-14	AM PM	4:07
FINISH OPERATION	8-23-14	AM PM	4:30
RELEASED	8-23-14	AM PM	5:00
MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Tommy L. Salem
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP 103	60/40 POZ	sk	350		4200 00
CC 102	Cellflake	lb	88		325 60
CC 109	Calcium Chloride	lb	903		948 15
CF 153	Wooden Cement Plug	Ea	1		160 00
E 100	Unit Mileage Pick up	MI	35		148 75
E 101	Heavy Equipment Mileage	MI	70		490 00
E 113	Prop + Bulk Delivery Charge	TM	527		1158 85
CE 200	Depth Charge 0-500'	4hrs	1		1000 00
CE 240	Blending + Mixing Charge	sk	350		490 00
CE 504	Plug Container Charge	Job	1		750 00
S003	Senior Supervisor	Ea	1		175 00
CC 131	Sugar	lb	100		500 00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	6355 52

KC

SERVICE REPRESENTATIVE Scott

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Tommy L. Salem
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005512	1718	08/27/2014

INVOICE NUMBER

91579865

Pratt (620) 672-1201

BILL TO
HUTCHINSON OIL COMPANY
PO BOX 521
DERBY
KS US 67037
ATTN:

JOB SITE
LEASE NAME T and L 2
LOCATION
COUNTY Stafford
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40759137	27463		Net - 30 days	09/26/2014

For Service Dates: 08/24/2014 to 08/24/2014

0040759137

171811303A Cement-New Well Casing/Pi 08/24/2014
Cement Surface

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
Common Cement	100.00	EA	8.80	879.75 T
Calcium Chloride	150.00	EA	0.58	86.60 T
Sugar	50.00	EA	2.75	137.46 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	2.34	81.79
Heavy Equipment Mileage	70.00	MI	3.85	269.42
"Proppant & Bulk Del. Chgs., per ton mil	165.00	EA	1.21	199.59
Blending & Mixing Service Charge	100.00	BAG	0.77	76.98
"Cement Pumper, Add'l hrs. on Location"	1.00	HR	274.92	274.92
"Service Supervisor, first 8 hrs on loc.	1.00	EA	96.22	96.22

8/30/14
CK# 26299
$2,181.65

8/24/14
add'l 100 sxs. of
common cement for surface

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	2,102.73
TAX	78.92
INVOICE TOTAL	2,181.65

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 11303 A

6 23S 12W

DATE TICKET NO.

DATE OF JOB 8-24-14 DISTRICT	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Hutchinson oil Company	LEASE Tundl WELL NO. 2
ADDRESS	COUNTY Stafford STATE Ks
CITY STATE	SERVICE CREW Scott, Josh, Cole
AUTHORIZED BY Steve Hutchinson	JOB TYPE: Top off Surface CMW

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
36970	.25				
27463	.25				
19960 14560	.25				

	DATE	AM PM	TIME
TRUCK CALLED			
ARRIVED AT JOB	8-24-14	AM PM	9:50
START OPERATION	8-24-14	AM PM	10:30
FINISH OPERATION	8-24-14	AM PM	10:45
RELEASED	8-24-14	AM PM	11:30
MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP100	Common Cement	SK	100		1600 00
CC109	Calcium Chloride	lb	150		157 50
CC131	Sugar	lb	50		250 00
E100	Unit mileage pick up	MI	35		148 75
E101	Heavy Equipment mileage	MI	70		490 00
E113	Prop + Bulk Delivery	TM	165		361 90
CE200	Depth Charge 0-500'	Hrs	1		
CE240	Blending + Mixing Charge	SK	100		140 00
S003	Service Supervisor	Ea	1		175 00
CE403	Cement pumper, acid trks on location	Hr	1		500 00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	

TOTAL

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX

BASIC ENERGY SERVICES

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1005512	1718	09/01/2014

INVOICE NUMBER

91583717

Pratt (620) 672-1201

BILL TO
HUTCHINSON OIL COMPANY
PO BOX 521
DERBY
KS US 67037
ATTN:

JOB SITE
LEASE NAME T and L 2
LOCATION
COUNTY Stafford
STATE KS
JOB DESCRIPTION Cement-New Well Casing/Pi
JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40760433	20920		Net - 30 days	10/01/2014

For Service Dates: 08/29/2014 to 08/29/2014

0040760433

171811091A Cement-New Well Casing/Pi 08/29/2014
Cement PTA

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
60/40 POZ	220.00	EA	9.24	2,032.46 T
Cement Gel	380.00	EA	0.19	73.14 T
"Unit Mileage Chg (PU, cars one way)"	35.00	MI	3.27	114.52
Heavy Equipment Mileage	70.00	MI	5.39	377.24
"Proppant & Bulk Del. Chgs., per ton mil	333.00	EA	1.69	564.01
Depth Charge; 3001-4000'	1.00	EA	1,662.93	1,662.93
Blending & Mixing Service Charge	220.00	BAG	1.08	237.12
"Service Supervisor, first 8 hrs on loc.	1.00	EA	134.73	134.73

8/29/14

Pump charge & cement to plug well

9-3-14
ck# 26306
$5,346.70

PLEASE REMIT TO:
BASIC ENERGY SERVICES,LP
PO BOX 841903
DALLAS,TX 75284-1903

SEND OTHER CORRESPONDENCE TO:
BASIC ENERGY SERVICES,LP
801 CHERRY ST, STE 2100
FORT WORTH, TX 76102

SUB TOTAL	**5,196.15**
TAX	**150.55**
INVOICE TOTAL	**5,346.70**

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 11091 A

6-23s-12w

DATE TICKET NO.

DATE OF JOB 8.25.2014 DISTRICT Pratt, KS	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER Hutchinson Oil Company	LEASE Tgnz L WELL NO. 2
ADDRESS	COUNTY Stafford STATE KS
CITY STATE	SERVICE CREW Dcrim, Ed, Dsle
AUTHORIZED BY	JOB TYPE: CNW/ Plug to Abandon

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27283	1				
15822	1				
20520	1				
19555	1				
73768	1				

	DATE		TIME
TRUCK CALLED	8.25	AM PM	3:00
ARRIVED AT JOB	8.25	AM PM	5:00
START OPERATION	8.25	AM PM	5:30
FINISH OPERATION	8.25	AM PM	17:00
RELEASED	8.25	AM PM	1:00
MILES FROM STATION TO WELL	35		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP103	60/40 POZ	SK	220		2,640 00
CC200	Cement Gel	Lb	380		95 00
E100	Unit milesse Charse - Pickup	Mi	35		148 75
E101	Heavy Equipment milesse	mi	70		490 00
E113	Bulk Delivery	Tn/m	333		731 50
CE204	Depth Charse; 3001 - 4000'	4hrs	1		2,160 00
CE240	Blending & mixing Service Charse	SK	220		308 00
S003	Service Supervisor, first & his on loc.	EA	1		175 00

SUB TOTAL 5,196 15

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Dario Fuentes

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX