



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1116617
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: _____



1116617

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 List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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REMIT TO
RR 1 BOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

NR

638

DATE 11/3/12 SEC. 11	RANGE/TWP. 135/28W	CALLED OUT 3:00 p.m.	ON LOCATION 5:15 p.m.	JOB START 6:45 p.m.	JOB FINISH 7:55 p.m.
LEASE L&D			WELL# 1-11		
			COUNTY 60	STATE KS	

CONTRACTOR WW 10	OWNER RL Investments LLC				
TYPE OF JOB Surface					
HOLE SIZE 12 1/4	T.D. 218'	CEMENT			
CASING SIZE 8 3/8	DEPTH 211' + 12' L.V.	AMOUNT ORDERED	11.5 cu yds	Class A	3% cc
TUBING SIZE	DEPTH			2% cc	
DRILL PIPE	DEPTH				
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	165	@ 15.50	2557.50
DISPLACEMENT 13.5 bbl	SHOE JOINT	POZMIX		@	
CEMENT LEFT IN CSG. 15"		GEL	3	@ 26.00	78.00
PERFS		CHLORIDE	6	@ 52.00	312.00
		ASC		@	
EQUIPMENT				@	
				@	
PUMP TRUCK				@	
# P1 Jay				@	
BULK TRUCK				@	
# B1 Jack				@	
BULK TRUCK				@	
# Jack				@	
		HANDLING	174	@ 2.15	374.10
		MILEAGE	40	@ .015/1 mi	696.00
				TOTAL	4017.60

REMARKS Cement circulated to pit. Done at 11:15 p.m.	SERVICE			
	DEPT OF JOB		@	
	PUMP TRUCK CHARGE	1	@ 1050.00	1050.00
	EXTRA FOOTAGE		@	
	MILEAGE	80	@ 6.50	520.00
	MANIFOLD		@	520.00
	Light Vehicle Charge	80	@ 2.00	160.00
			TOTAL	1730.00

CHARGES TO: RL Investments LLC	
STREET 217 S. Perry St.	STATE KS
CITY Marland	ZIP 67650

PLUG & FLOAT EQUIPMENT	
	@

To: Schippers Oil Field Services L.L.C.
You are hereby requested to rent cementing equipment

REMIT TO
RR 1 BOX 90 D
HOXIE, KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

NY 642

DATE <i>11/10/12</i> SEC. <i>11</i>	RANGE/TWP. <i>1-11</i>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <i>L10</i>			WELL# <i>1-11</i>		
			COUNTY <i>W</i>	STATE <i>KS</i>	

CONTRACTOR <i>WV 10</i>	OWNER <i>Ric</i>			
TYPE OF JOB				
HOLE SIZE <i>7 7/8</i>	T.D. <i>4441</i>	CEMENT		
CASING SIZE	DEPTH	AMONT ORDERED <i>205</i>		
TUBING SIZE	DEPTH			
DRILL PIPE <i>4 1/2</i>	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON <i>125</i>	@ <i>15⁰⁰</i>	<i>1926⁰⁰</i>
DISPLACEMENT	SHOE JOINT	POZMIX <i>82</i>	@ <i>8⁰⁰</i>	<i>677</i>
CEMENT LEFT IN CSG.		GEL <i>7</i>	@ <i>025</i>	<i>182⁰⁰</i>
PERFS		CHLORIDE	@	
		ASC	@	
EQUIPMENT			@	
			@	
PUMP TRUCK		<i>F/float</i>	@ <i>2⁰⁰</i>	<i>11531</i>
# <i>Top</i>			@	
BULK TRUCK			@	
#			@	
BULK TRUCK			@	
#			@	
		HANDLING <i>212</i>	@ <i>2⁰⁰</i>	<i>455⁰⁰</i>
		MILEAGE <i>40</i>	@ <i>21⁰⁰</i>	<i>811⁰⁰</i>
<i>Plugged</i>	<i>11.00 PM</i>		TOTAL	
	<i>11/10/12</i>			

REMARKS	SERVICE <i>Rotary Plug</i>	
<i>1st 255' 2055'</i>	DEPT OF JOB	@
<i>2nd 100' 1120'</i>	PUMP TRUCK CHARGE	@ <i>130⁰⁰</i>
<i>3rd 40' 770'</i>	EXTRA FOOTAGE	@
<i>4th 100' 40 w per</i>	MILEAGE <i>4002</i>	@ <i>6.50</i> <i>526.00</i>
	MANIFOLD	@
<i>Rat Hole 30 sv</i>	<i>6 inch hole 40x2</i>	@ <i>2.00</i> <i>160.00</i>
	TOTAL	

CHARGES TO: <i>R1</i>	
STREET	STATE
CITY	ZIP

PLUG & FLOAT EQUIPMENT	
<i>Rotary Plug</i>	@ <i>75⁰⁰</i>
	@

To: Schippers Oil Field Services L.L.C.
You are hereby requested to rent cementing equipment

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

March 01, 2013

Randall Pfeifer
RL Investment, LLC
217 SAINT PETER ST
MORLAND, KS 67650-5101

Re: ACO1
API 15-063-22057-00-00
L & D 1-11
NW/4 Sec.11-13S-28W
Gove County, Kansas

Dear Production Department:

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

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

Respectfully,
Randall Pfeifer

OPERATOR

Company: R.L. INVESTMENT, LLC
 Address: 217 SAINT PETER ST.
 MORLAND, KS 67650-5101

Contact Geologist:
 Contact Phone Nbr: 785-421-6448
 Well Name: L + D # 1-11
 Location: 806 FNL,1409 FWL,SEC11-T13S-R28W API: 15-063-22057
 Pool: DRY AND ABANDONED Field: WILDCAT
 State: KANSAS Country: GOVE

Scale 1:240 Imperial

Well Name: L + D # 1-11
 Surface Location: 806 FNL,1409 FWL,SEC11-T13S-R28W
 Bottom Location:
 API: 15-063-22057
 License Number:
 Spud Date: 11/3/2012 Time: 12:00 AM
 Region: NW
 Drilling Completed: 11/9/2012 Time: 5:36 PM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 2562.00ft
 K.B. Elevation: 2567.00ft
 Logged Interval: 3250.00ft To: 4441.00ft
 Total Depth: 4441.00ft
 Formation: MISSISSIPPIAN
 Drilling Fluid Type: CHEMICAL

CONTRACTOR

Contractor: WW DRLG.
 Rig #: 10
 Rig Type: DOUBLE
 Spud Date: 11/3/2012 Time: 12:00 AM
 TD Date: 11/9/2012 Time: 5:36 PM
 Rig Release: 11/10/2012 Time: 1:00 PM

LOGGED BY

Company: LARRY P. FRIEND
 Address: 1639 BURNS
 WICHITA, KS 67203-2757
 Phone Nbr: 316-265-2228
 Logged By: Geologist Name:

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size	12.25 in				
Hole Size	12.25 in				
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	217 ft	20#	5	
Int Casing					
Prod Casing					

CASING SEQUENCE

Type	Hole Size	Casing Size	At
SURFACE	12.25 in	8.63	217.00 ft

OPEN HOLE LOGS

Logging Company: SUPERIOR
 Logging Engineer: MITCH RUPP
 Truck #:

Truck #:
 Logging Date: 11/9/2012
 # Logs Run: 4

Time Spent:
 # Logs Run Successful: 4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	3400.00ft	4440.00ft	0.00		0
CND	3400.00ft	4440.00ft	0.00		0
SONIC	218.00ft	4440.00ft	0.00		0
MICRO	3400.00ft	4440.00ft	0.00		0

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
11/6/2012	218.00ft	4440.00ft	

FORMATION DEPTHS

FORMATION DEPTHS SAMPLE	LOG	COMPARISON WELL: R.L. INVESTMENT, LLC #1 ZERR, NE/4, SEC. 11-T13S-R28W
STONE CORRAL	2036 (+531)	2036 (+531) -2
BASE	2072 (+495)	2071 (+494) FLAT
TOPEKA	3465 (-898)	3466 (-899) +9
HEEBNER SHALE	3685 (-1118)	3686 (-1119) +9
LANSING	3725 (-1158)	3725 (-1158) +10
MUNCIE CREEK SH.	3872 (-1305)	3872 (-1305) +4
STARK SHALE	3955 (-1388)	3956 (-1389) +5
BKC	4011 (-1444)	4012 (-1445) +6
MARMATON	4048 (-1481)	4050 (-1483) +4
CHEROKEE	4208 (-1641)	4208 (-1641) +7
BS PENN LIME	4295 (-1728)	4294 (-1727) +2
MISSISSIPPIAN	4311 (-1744)	4312 (-1745) +11
OSAGE	4397 (-1830)	4400 (-1833) -11

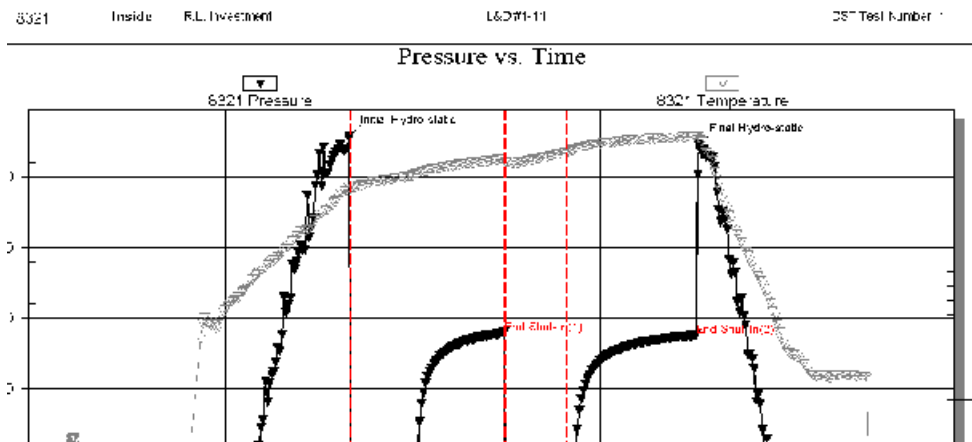
NOTES

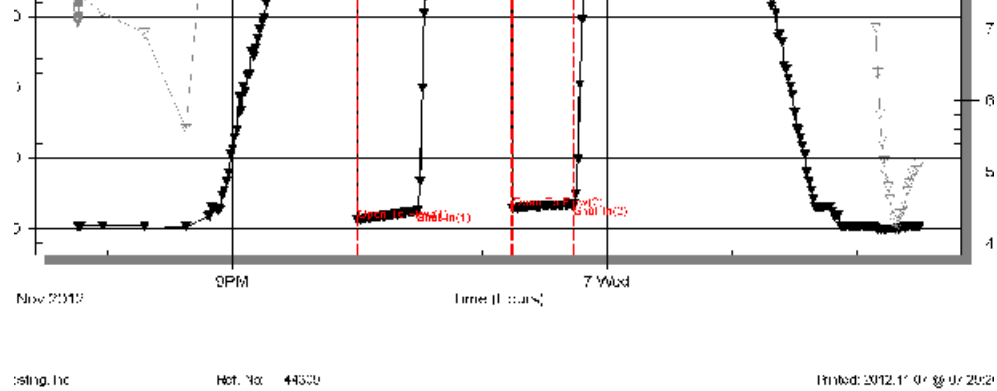
DUE TO NEGATIVE DST RESULTS AND THE LACK OF ANY OTHER POSITIVE SHOWS, IT WAS DECIDED TO PLUG AND ABANDON THE L & D 1-11.
 LARRY P. FRIEND

DRILLSTEM TESTS

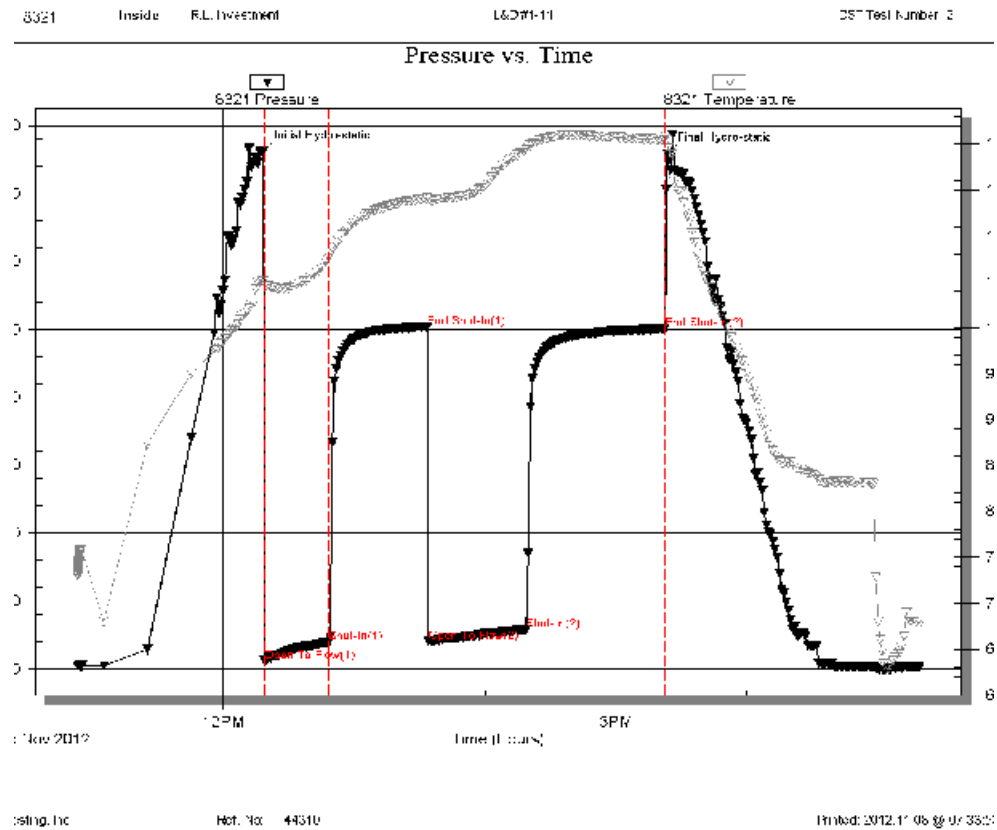
No	Interval	Formation
1	3787-3822	LANSING "E" ZONE
2	3860-3894	KANSAS CITY "H" ZONE
3	3898-3955	KANSAS CITY "I" + "J" ZONES

DST #1 CHART



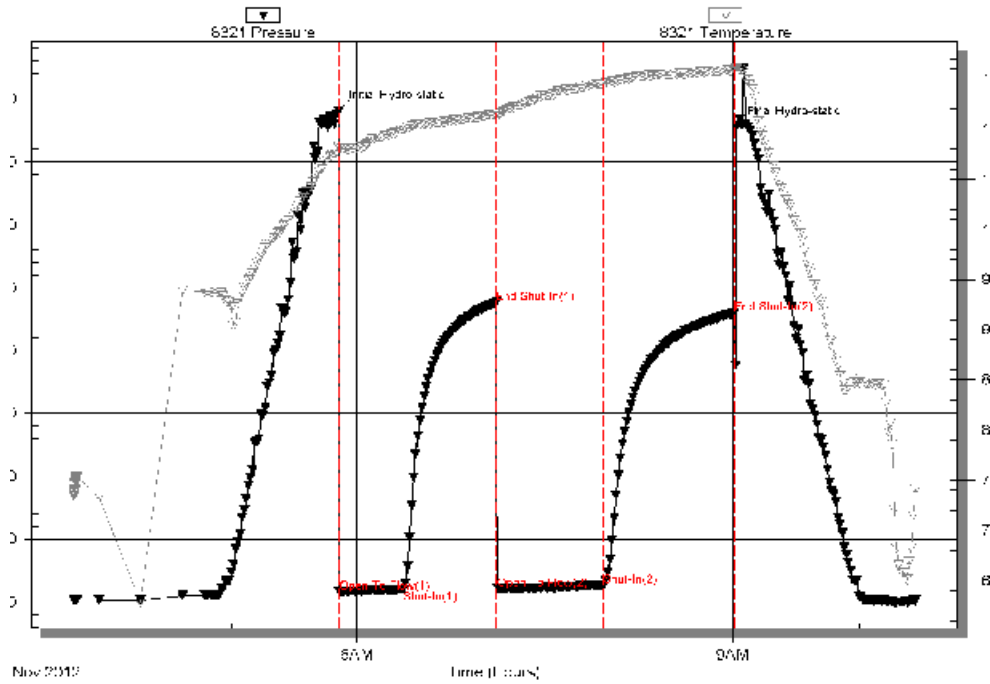


DST #2 CHART



DST #3 CHART

Pressure vs. Time



slings, Inc

Well No: 44311

Printed: 2012.11.08 @ 17:28:01

ROCK TYPES

- | | | | |
|------|----------|----------|--------|
| Cht | Dolsec | Lmst fw> | Shcol |
| Coal | Lmst fw< | Shgy | Siltst |

ACCESSORIES

MINERAL

- Carbonaceous Flakes
- ▲ Chert, dark
- △ Dolomitic
- P Pyrite
- Sandy
- ^ Siliceous
- .. Silty
- △ Chert White

FOSSIL

- ◇ Oolites

OTHER SYMBOLS

OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

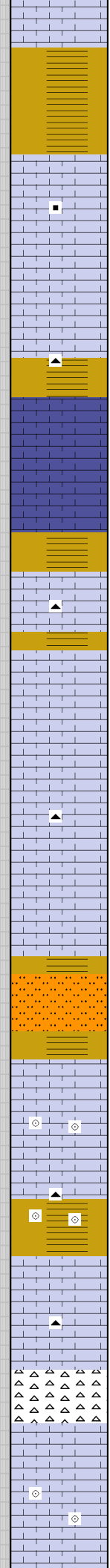
Curve Track #01					
ROP ()	—	ais	thology		

	Depth Interval	Cored Interval	DST Interval	Porosity	Interpreted LI	Oil Shows	Geological Descriptions	Comment
<p>1:240 Imperial ROP (ft)</p>							<p>40: LS, TAN-BRN, VFXLN, DSE TO SOME V. FOSS, W/ PR - FR. XLN. POR; SHALE, GRY & MAROON; NS</p> <p>60: LS, CRM-BRN, FXLN, W/ PR - FR. XLN. POR; NS</p>	<p>7:00 AM DEPTHS: 11/03/12: SPUD 11/04/12: 1104' 11/05/12: 3016' 11/06/12: 3732' 11/07/12: 3872 11/08/12: 3955 11/09/12: 4253 TD @ 5:36PM</p> <p>DEVIATION SURVEYS: 1.0 DEG @ 218' 0.25 DEG @ 3822' 1.50 DEG @ 4441'</p> <p>MUD UP @ 3016'</p> <p>MUD @ 3274: WT: 8.7 VIS: 65 FILT: 6.8 CHLOR: 1,700</p>

**- TOPEKA -
3465 (-898)**

ROP ()

3450
3500
3550
3600
3650



80: LS, BRN, VFXLN, DSE TO LS, TAN, V. FOSS. W/ GD. XLN. POR; NS, NO FLOUR.

100: TR. LS, TAN, V. FOSS. W/ FR - GD. XLN. POR; LS, BRN, VFXLN, TR. FOSS, DSE W/ TR. DK. BRN, SCAT. CARBONACEOUS SPKS; NS

20: LS, TAN-BRN, FXLN, SLI. FOSS, CALCITIC, W/ FR - GD. XLN. POR; SOME BLK SHALE; TR. BRN CHERT; TR. PYRITE; NS

40: LS, TAN, FXLN, CALCITIC, W/ GD. XLN. POR NS, NO FLUOR.

60: LS, TAN, FLXN, FOSS, CALCITIC, W/ PR. - FR. XLN. POR; TR. TAN CHERT; NS

70: LS, TAN-BRN, FXLN, V. FOSS, W/ PR. - FR. XLN. POR; SHALE, GRY; NS

80: AS ABOVE & TR. TAN CHERT; NS

90: LS, TAN-BRN, FXLN, FOSS, CALCITIC, W/ PR. - FR. XLN. POR; TR. CRM, CHLKY LS; NS

100: SHALE, MAROON & GRY; GRY & MAROON SILTSTONE; NS

10: LS, BRN, APPEARS MICRO-OOLITIC, DSE & TR. LS, TAN-BRN, FXLN, FOSS, W/ PR. POR; SHALE, GRY; NS

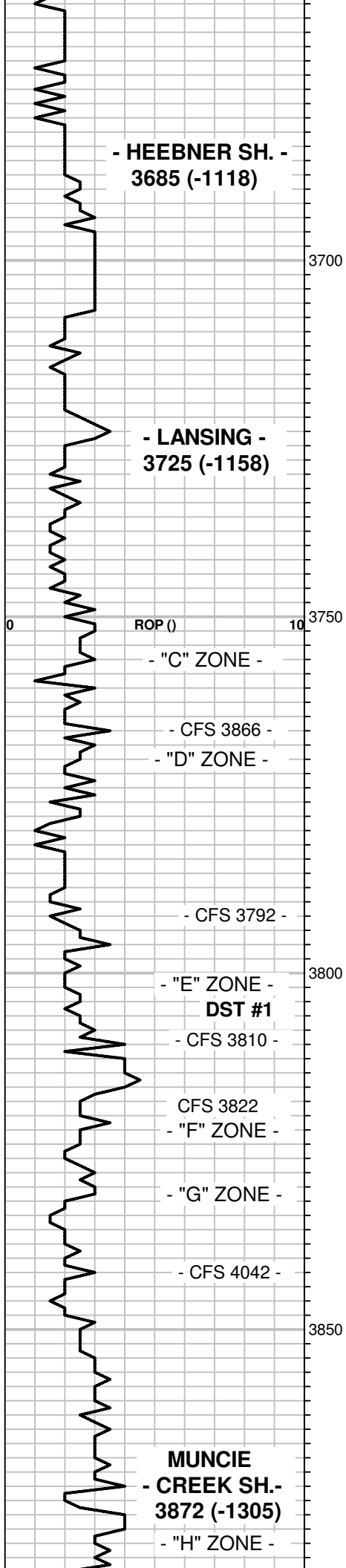
20: LS, TAN-BRN, FXLN, SOME FOSS, W/ FR - GD. XLN. POR; NS

30 & 40: LS, TAN, VF-FXLN, SOME FOSS, TR. MICRO-OOL, PR. POR; TR. CHERT, TAN; SHALE, MAROON & GRY; NS

50: TR. LS, CRM, SOFT, CHLKY & LS, TAN-BRN, SLI. FOSS, W/ PR. POR; TR. CHERT, TAN SHALE AS ABV; NS

60: CHERT, LT. GRY, SHARP; NS

70 & 80: SOME LS, CRM, CHLKY & LS, BRN, FOSS, TO TR. V. OOLITIC W/ PR. XLN. POR; NS



- HEEBNER SH. -
3685 (-1118)

- LANSING -
3725 (-1158)

ROP () 3750

- "C" ZONE -

- CFS 3866 -

- "D" ZONE -

- CFS 3792 -

- "E" ZONE -

DST #1

- CFS 3810 -

CFS 3822

- "F" ZONE -

- "G" ZONE -

- CFS 4042 -

**MUNCIE
- CREEK SH. -
3872 (-1305)**

- "H" ZONE -

90: LS, CRM-TAN, CHLKY TO LS, BRN, FXLN, SLI. FOSS, PR. POR; SHALE, GRY & GRN; NS

100: SHALE, BLK; LS, BRN, VFXLN, DSE; NS

10: SHALE, LT. GRY - LT. GRN, SOFT, STICKY.

20 & 30: LS, TAN-BRN, FXLN, TR. SLI. FOSS, PR - TR. FR. XLN. POR; TR. CRM-TAN CHERT; NS

40: SHALE, GRY; CHERT, ORG.

50: TR. LS, TAN, FXLN, V. FOSS / OOL, W/ PR. - TR. FR. INTER-FOSS. POR; NS

60: LS, CRM, FXLN, SOFT, SLI. CHLKY, W/ GD. XLN. POR; LS, TANFXLN, PR. POR; NS

66: SHALE, MAROON, GRY, GRN; TR. GRY SILTSTONE.

66 & 66 CIRC: LS, TAN, V. OOL./ FOSS, SLI. CHERTY, W/ PR. VIS. POR; NS

90 & 92 CIRC: LS, CRM, SOFT, CHLKY TO LS, TAN, VF-FXLN, CALCITIC, SLI. FOSS, W/ PR. - FR. XLN. POR; NS

10 CIRC: LS, CRM-TAN, V. OOL./ FOSS, TR. PR. XLN & PPT. POR, VSSFO, PR. SPTY SAT. STN (1 PC W/ GSFO & TOT. DK. BRN. SAT. STN), NO ODOR

22 CIRC: LS, CRM - TAN, SLI. FOSS, CALCITIC, SOME CHERTY, HD, DSE TO SOME SLI. CHLKY W/ GD. XLN. POR; SHALE, GRY; NS

40: LS, BRN, VFXLN, SLI. CALCITIC, DSE, NS LS, CRM, SLI. CHLKY, SOFT W/ SPTY FLUOR AND LT. CRUSH CUT; SLI. ODOR

42 CIRC: LS, CRM, SOFT, SLI. CHLKY; NS, NO FLUOR.

60: LS, BRN, VFXLN, OOL./ FOSS, W/ TR. PR. SCAT. OOLIC. POR AND CRM CHLKY LS; NS

70 & 80: LS, GRY-BRN, VF-FXLN, SOME SLI. FOSS, PR. POR; SM. AMT. LS, CRM CHLKY; NS

90: LS, BRN, VFXLN, DSE, 1 PC W/ DK SAT. STN; MUCH LS, CRM, WEATH, SLI. CHLKY, FEW PCS W/ SPTY STN & FLUOR, TR. FO&G ON BRK, WK. CRUSH CUT; FR. ODOR

MUD @ 3766:
WT: 9.0
VIS: 65
FILT: 6.4
CHLOR: 2,200
LCM: 1#

RAN SHORT TRIP OF 48 STANDS AT 3866. WENT UP THROUGH DAKOTA SAND, PULLED TITE.

**DST #1: 3787 - 3822
"E" ZONE**

**TIMES: 30-45-30-60
IF: BLOW BUILT TO 4.75"
FF: BLOW BUILT TO 3.5"
NO RETURN BLOW.**

**REC: 149' TOTAL FLUID:
10' CLEAN OIL,
15' SOCM (5% O, 95% M.)
82' WCM, W/ SCUM OIL
(25% W, 75% M.),
42' MCW, W/ SCUM OIL
(60% W, 40% M.)**

**CHLOR: 42,000 PPM
SYSTEM: 2,200 PPM
RW: .215 @ 56.1 DEG. F.
IFP: 29-61#, FFP: 71-86#
SIP: 1198-1188#**

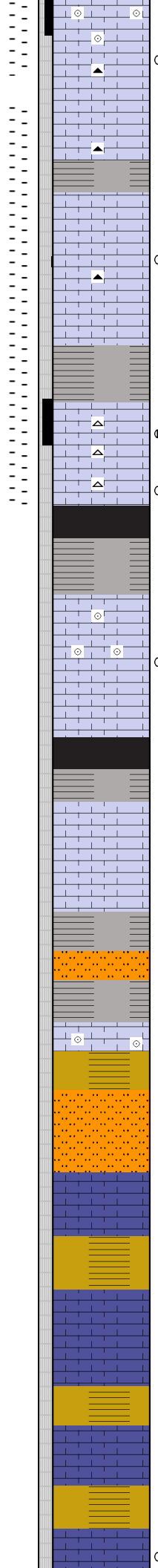
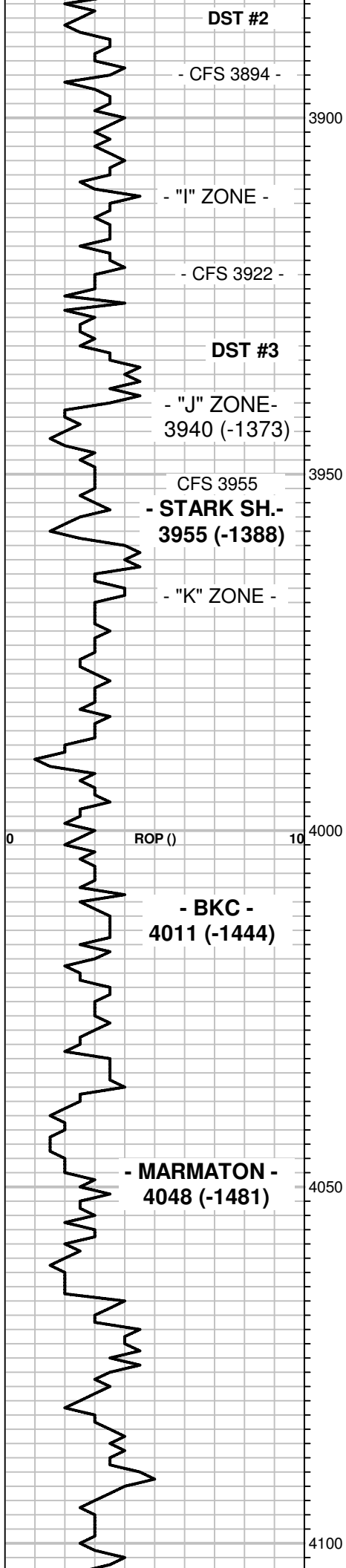
**HP: 1894-1864#
MAX TEMP: 117 F.
SEE CHART ABOVE**

**PIPE STRAP @ 3822 =
3.75' SHORT TO BOARD.**

**DST #2: 3860-3894
("H" ZONE)**

**TIMES: 30-45-45-60
IF: BLOW BUILT TO 10"
ISI: WK.SURF. BLOWBACK
FF: BLOW OFF BTM IN 36"
FSI: WK SURF BLOWBACK
DIED IN 24".**

**REC: 31' GAS IN PIPE,
278' TOTAL FLUID:
15' GSY OIL,
77' WM, W/ OIL SCUM
(30% W, 70% MD),
100% W/ OIL SCUM**



94 & CIRC: LS, CRM-BRN, OOL. (MICRO - MED OOLITES), SOME SLI. CHTY W/ PR - TR. FR. PPT. POR, TO SOME SOFT, WEATH, SLI. CHLKY; FEW PCS W/ SSFO & SPTY - TOTAL SAT. STN; TR. CHERT, BRN; FT. ODOR

10 & 20: LS, BRN, VF-FXLN, DSE TO PR. XLN. POR; SOME LS, CRM, WEATH, SLI. CHLKY; TR. BRN, CHERT; NS

22 CIRC: LS, AS ABV AND SM. AMT LS, CRM, SLI. CHLKY, SOFT TO TR. HD, SLI. CHTY W/ DULL BRN PART. STN, VSSFO&G ON BRK (LOOKS V. TITE); TR. CHT, BRN; ?ABLE ODOR

40: LS, FXLN, TR. W/ PR. XLN. POR & TR. LIVE STN.

50: SHALE, GRY, LT. GRN.

55: LS, TAN, VF-FXLN, (FEW LS & CHT. INCLUS) SOME PR- FR. PPT. POR, SFO&G, V. LT - MED BRN. TOT. STN; CHT, LT. GRY SHP; FR.

55 CIRC: LS, VF-FXLN, PR. XLN & ONLY TR. PR. PPT-VUG POR, SSFO&G, LT. BRN PARTIAL SAT. STN.

70: SHALE, BLK & GRY.

84 & 25" CIRC: LS, CRM-TAN, FXLN, V. OOL./ FOSS, SLI. CHLKY W/ GD. XLN. POR TO TR. CALCITIC W/ PR. POR, TR. PR. SPTY BRN STN, R. TR. FO; SLI. ODOR.

40" CIRC: LS, BRN, VFXLN, DSE TO SOME SLI. CHLKY; NS

100: SHALE, BLK.

10 & 20: LS, TAN-BRN, VF-FXLN, PR. - LIT. FR. XLN. POR, SOME WEATH, SLI. CHLKY; SOME BRN V. LMY, HD SILTSTONE AT BOTTOM; NS

30: SHALE, GRY AND GRY, LMY SILTSTONE.

40: LS, TAN-BRN, FXLN, SOME FAINTLY OOL./ FOSS, MOSTLY PR. POR; NS

50: SHALE, VARY COLORED AND SILTSTONE, GRY, LMY.

60 & 70: LS, GRY-BRN, VFXLN, SLI. FOSS, DSE AND SHALE, GRY, MAROON, GRN; NS

80: SHALE, BLK AND VARY COLORED; LS, GRY-BRN, VFXLN, DSE; NS

90: LS, BRN, VFXLN, DSE TO SOME SLI. WEATH; SHALE, VARY COLORED; NS

100: LS, GRY-BRN, VFXLN, DSE; SHALE, GRY, MAROON, GRN; NS

10: SHALE, VARY COL AND LS, CRM-TAN, SLI. WEATH, SOME SLI. CHLKY, PR-GD XLN. POR, TR. PPT. POR, PR. SPTY BRN SAT. STN, TR. LIVE STN, TR. FO ON BRK, NO CHERT

186' MW, W/ OIL SPOTS (80% W, 20% MD)
CHLOR: 45,000 PPM
SYSTEM: 2,200 PPM
RW: .169 @ 69.1 F.
IFP: 29-97#, FFP: 102-144#
SIP: 1260-1252#
HP: 1904-1896#
MAX. TEMP: 120 F.
SEE CHART ABOVE
 MUD @ 3894:
 WT: 9.2
 VIS: 59
 FILT: 6.4
 CHLOR: 2,200

PULLED TITE - RAN SHORT TRIP OF 10 STANDS AT 3955'

DST #3: 3898 - 3955 ("I" & "J" ZONES)
TIMES: 30-45-50-60
IF: BLOW BUILT TO 1.125"
FF: NO BLOW, FLUSHED TOOL @ 38": SURGED, THEN DIED.
REC: 10' MD W/ OIL SPOTS
IFP: 42-51#, FFP: 54-67#
SIP: 1191-1151#
HP: 1949-1887#
MAX TEMP: 116 F.
SEE CHART ABOVE

MUD @ 3955:
 WT: 9.0
 VIS: 55
 FILT: 6.4
 CHLOR: 2,300
 LCM: 1#

