

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
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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				

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)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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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:	
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Glanman Consulting LLC

API #15-051-26905-0000

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR LONESTAR OIL COMPANY
 LEASE JOSEPHINE WELL NO. 2
 FIELD PLEASANT
 LOCATION 330' FNL & 3961' FEL
 SEC. 11 TWP. 14S RGE. 20W
 COUNTY ELLIS STATE KANSAS

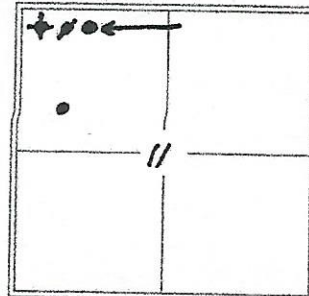
ELEVATION
 KB 2256
 DF _____
 GL 2250
 Measurements Are All
 From KELLY BUSHING

CONTRACTOR ROYAL DRILLING COMPANY
 COMM: 03-23-2018 COMP. 03-31-2018
 RTD 3910 LOG TO 3912
 SAMPLES SAVED FROM 3150' TO T. D.
 DRILLING TIME KEPT FROM 3000' TO T. D.
 SAMPLES EXAMINED FROM 3150' TO T. D.
 GEOLOGICAL SUPERVISION FROM 3000' TO T. D.
 MUD UP 3000' TYPE MUD CHEMICAL FRESH WTR
Mud Co / SERVICES


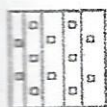




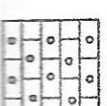
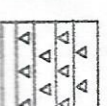

CASING RECORD
 SURFACE 8 5/8" @ 1549'
530 sxs 60/40 47 270
 PRODUCTION 5 1/2" @ 3910'

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
ANHYDRITE	1538	(718)	1539	(717)	
B/ANHYDRITE	1576	(680)	1580	(676)	
TOPEKA	3246	(-990)	3244	(-988)	
HEEBNER	3485	(-1229)	3484	(-1228)	-6
LANSING	3526	(-1270)	3523	(-1267)	+19
B/KANSAS	3777	(-1521)	3773	(-1517)	
MARMATON	3814	(-1558)	3818	(-1562)	
ARBUCLE	Not Present		Not Present		
REAGAN SAND	3871	(-1615)	3862	(-1606)	

ELECTRICAL SURVEYS
 DUAL INDUCTION
 DENSITY-NEUTRON
 MICRO
 ELI WIRELINE

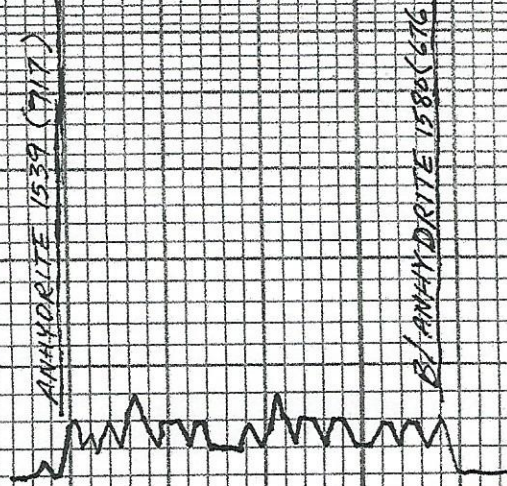
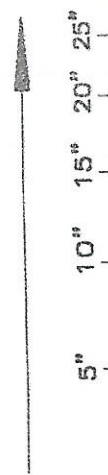


REFERENCE WELL FOR STRUCTURAL COMPARISON SUNRAY OIL CORPORATION
NE NW NW SEC. 11-T14S-R20W; ELLIS CO. KS
JOSEPHINE #1

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone
-  Ool. Lime
-  Chert
-  Dolomite

DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
1530	Anhydrite			
1540	Anhydrite			
1550	Anhydrite			
1560	Anhydrite			
1570	Anhydrite			
1580	Anhydrite			
1590	Anhydrite			
1600	Anhydrite			
3000				Start 1' drag time.

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases



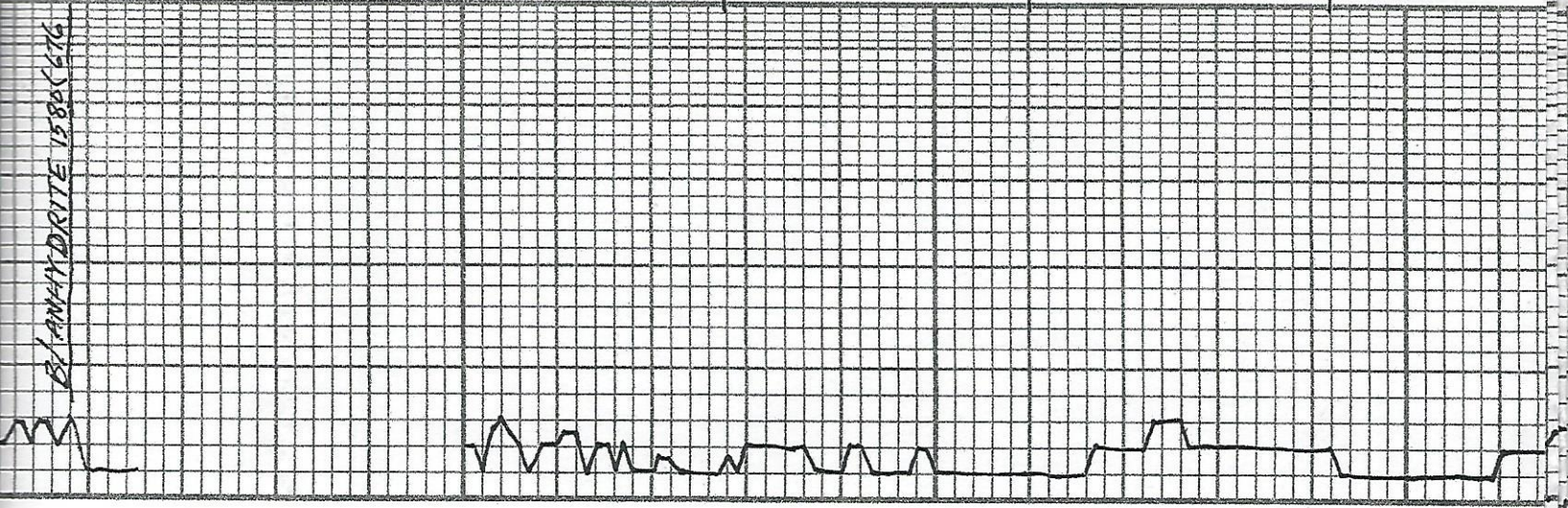
Start 1' drg time

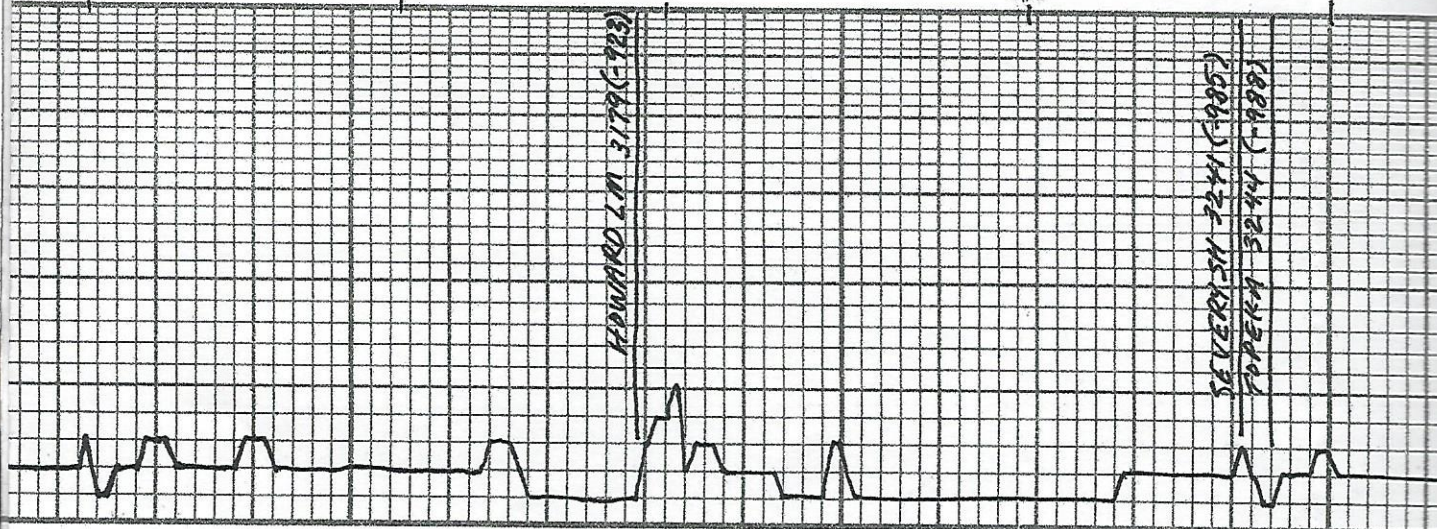
VIS 64
WE 8.5
LGM 2.4

1580 1590 1600 3000 10 20 30 40 50 60 70 80 90 3100 10



BIANHYDRITE 1580-676

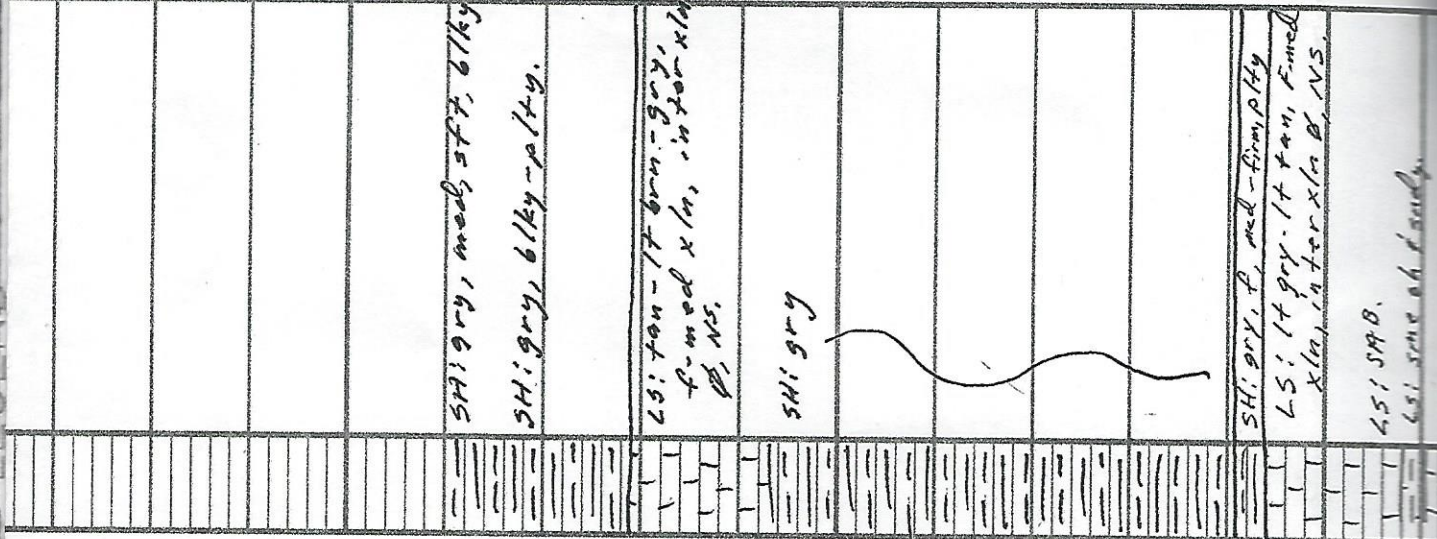




HERNANDO LM 3179 (-928)

SEVERY SH 3244 (-905)
 PAPER M 5244 (-988)

20 30 40 50 60 70 80 90 3200 10 20 30 40 50 60



SH: gry, med stt, blk

SH: gry, blk - pty.

LS: tan - 17 brn - gry.
 f - med x ln, inter x ln
 P, NS.

SH: gry

SH: gry, f, med - firm, pty

LS: lt gry - lt tan, f - med
 x ln, inter x ln P, NS.

LS: SAB.

LS: some abt sand.

Start 10' Wet/abay
 5 mpls.

6:00 am
 5-28-2018

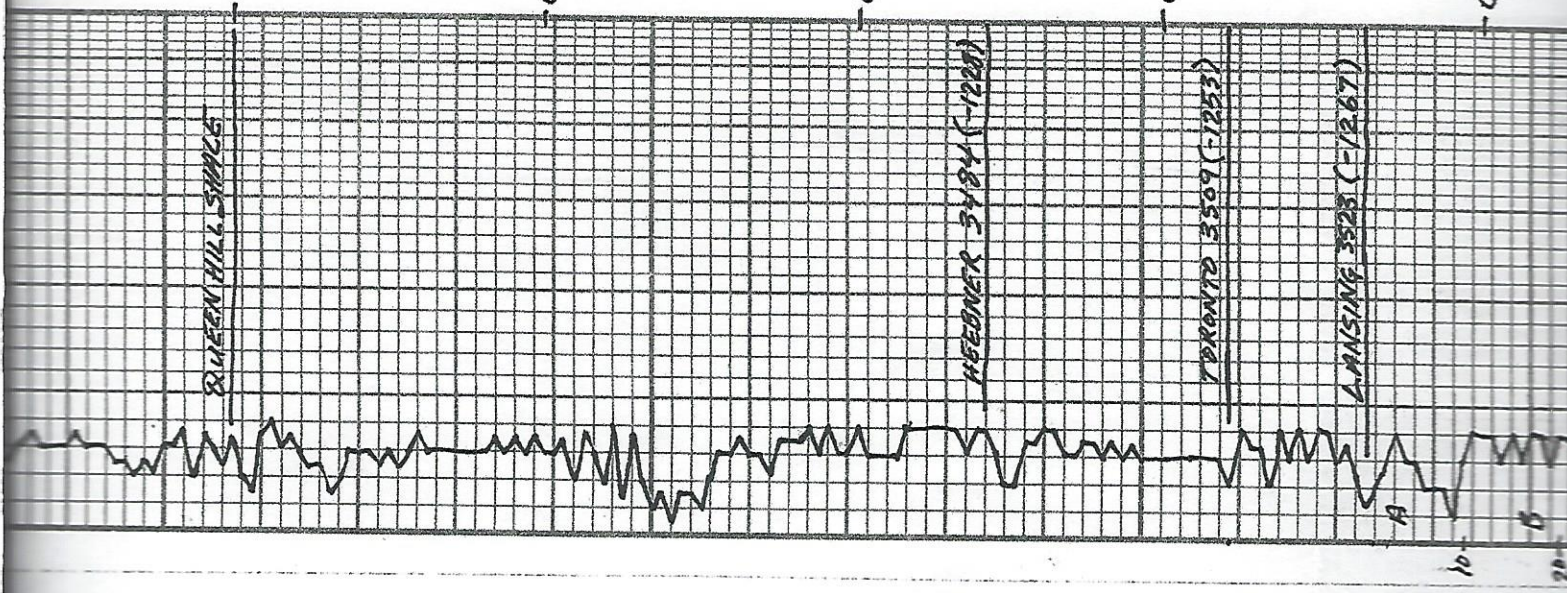
SEVERN 3241 (1985)
FOPERA 3244 (1988)

KING HILL SAMPLE

40
C 50
60
70
80
90
3300
10
20
30
40
C 50
60
70
C 80

SH: gry, f, med - firm, p lky
LS: lt gry - lt tan, f-med
xln, inter xln ♂, NS.
LS: SAB.
LS: sme sh f sndy.
est-sme-sh f sndy
LS: lt tan - tan, f-med xln, sl:
vuggy pp ♂, inter xln ♂,
sl: SFO, fair odor, vlt
universtr.
SH: gry, med, blk
LS: lt tan - tan, f-med xln
inter xln ♂, NS.
LS: tan, f-med xln, inter
xln ♂, sl: ch lky, SFO,
sl odor, lt even str, sme
f₂ + xls.
LS: SAB, L008 ch lky.
LS: tan - lt brn, f-med xln,
inter xln ♂, NS.
SH: blk, carb, pty-blky.
SH: lt gry, f, med, blk.
LS: tan, sme lt gry, f-med
xln, sndy, inter xln - grn
♂, NS
LS: tan, f-med xln, inter
xln ♂, SFO, sh adon
lt sply str,
" " " " " " " "

VIS 50
WT 8.7
FIL 6.0
CL 4.5K
LCM 2#



QUEEN HILL SIMMS

HEEDNER 3484 (-1221)

DRONTO 3509 (-1253)

LANSING 3528 (-1267)

90
3400
10
20
30
40
50
60
70
80
90
5500
10
20
30
40

SH: gry

LS: tan, f-med xln, inter xln, NS.

SH: blk, carb, blk y.

LS: brn, f. xln, dms ip, NS

SH: gry-drk gry, blk y.

LS: H gry, med-C xln, sl. oom, inter xln - oom, FSPD, Sol odor, lt-drk spty str.

LS: SAB

SH: gry

LS: tan-lt brn, f-med xln, inter xln, FSPD, Sol odor, lt uneven st.

LS: lt gry-gry, f-med xln, inter xln, shly, NS.

LS: SAB

LS: lt gry, f-med xln, inter xln, NS.

SH: blk, carb, pty-blky

SH: gry-lt gry, soft, marly,

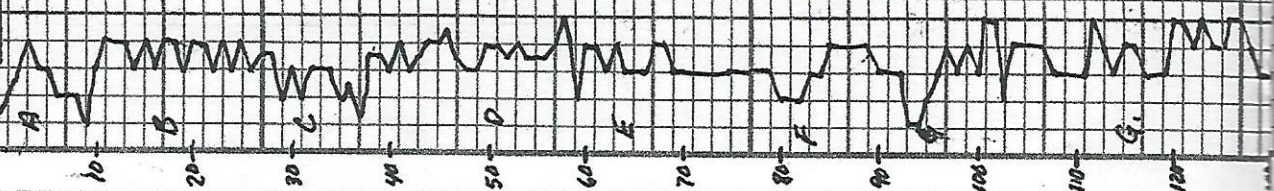
LS: wt-lt tan, f-med xln, inter xln, blk y, NS.

LS: lt tan, sme opaque, f-med xln, inter xln, sme C xln, NS. SH: gry, few brn pieces, med pty.

LS: lt gry, sme tan, mottled f-med xln, f. inter xln, shly, NS, sme SH: gry

TRAWN 3504 (-1253)

LAUSING 3525 (-1267)

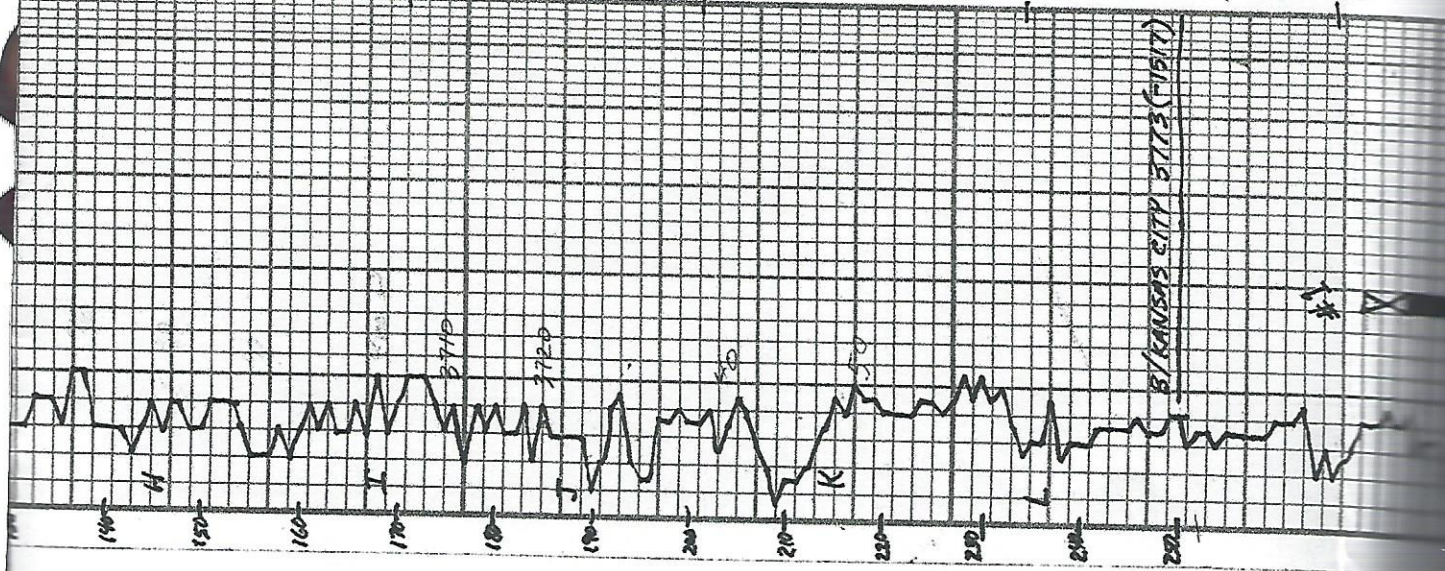


10
20
30
40
50
60
70
80
90
3600
10
20
30
40
50

LS: 107-17 tan, f-med xln inter xln Ø, chiky, NS.	LS: 11 tan, sme opaque, f-med xln, inter xln Ø, sme C x/s, SHA grgit few brn pieces, med ppty.	LS: 11 tan, f-C xln, vuggy, ppØ gd inter xln - pp - vuggy Ø, sd sfo, odor, drk uneven - sply even stn. si, sof-oom.	LS: tan - lt brn, sme lt tan, f-C xln, si, oolitic, inter xln - pol Ø, gd sfo, odor, lt - drk sply stn, sme pseudo oolitic.	SH: gry, sme brwn, ppty	LS: 11 tan, f-med xln, inter xln Ø, f-sfo, fair odor, lt even stn.	SH: gry, f, med, biky	LS: 11 tan, f-med xln, oolitic, inter xln - pol Ø, f-sfo, odor, drk sply, stn.	LS: 11 tan, sme lt brn - brn, f-med xln, oolitic, inter xln pol Ø, sfo, odor, lt - drk even - uneven stn.	LS: tan - lt brn, f-med xln, ppØ, inter xln - ppØ, f-sfo odor, drk even stn.	LS: 5AB, sme lt gry - blue shok	SH: 11 gry - gry, sme lt
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* Note: samples bubbled
oil when pressed on.

* Samples were shining on, lky



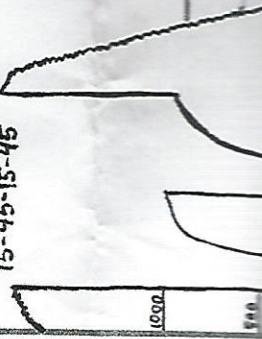
60	LS: tan, f xln dng ip, sme xl overgrowth, inter xln p, sh. p. sli. sfo, sli. odor, lt-drk spty stn. sli. cherty
70	SH: gry
80	LS: lt tan - lt brn, f-med xln sme c. xls, v. sly - p. p. calcite xln p, sme dng ip, f. sfo, fr odor, lt-drk even stn.
90	LS: tan, f-med xln, sme c. xls inter xln p, dng ip, sli. sfo, sli. odor, drk stn.
3700	LS: lt tan, f-cxln, calcitic, calcite inter xln calcitic p, gl show f. sfo, sli. odor, drk even stn.
10	SH: blk, carb, blk
20	LS: wt - lt tan, f-med xln, inter xln p, sfo, sli. odor, lt-drk even stn.
30	LS: SAB
40	SH: gry, pty.
50	LS: tan, f-med xln, inter xln p, N.S.
60	SH: gry, brn,
70	LS: tan, p xln, inter xln p, N.S. vari. clud.
80	LS: tan - lt brn, f-med xln inter xln p, N.S.
90	SH: vari. clud, lt gry, lt tan, p, reddish brn, blk
1800	

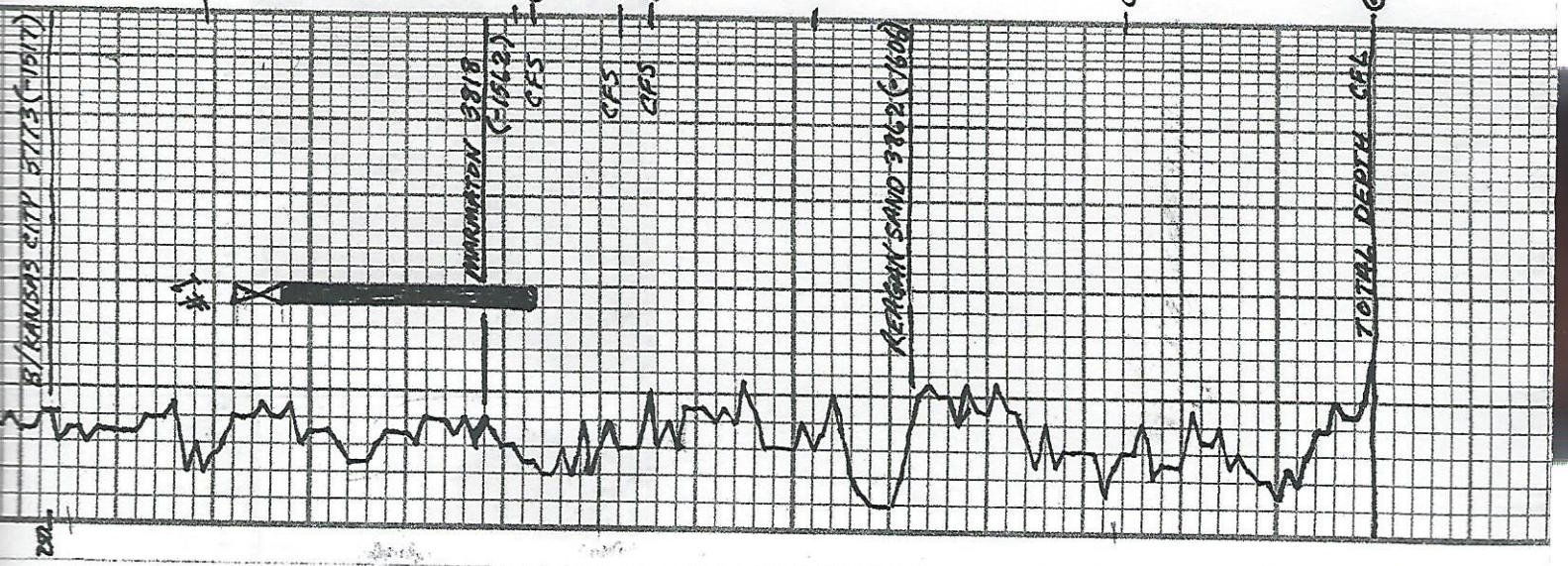
VIS 50
WT 9.2
LCM 1 1/2 #

* Smpls washing brown
* Smpls staying ones saturated obscuring rock color
* 'J' zone thinned

VIS 52
WT 9.2
F: 1 6.4
CL 4.8K
LCM 2

DST #1
3797-3823
15-45-15-45

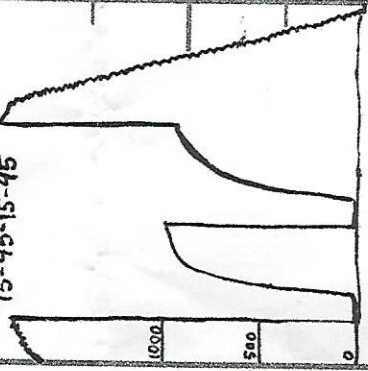




70	SH: gry, brn,
80	LS: tan, p xln, inter xln & NS
90	SH: vari c. ind.
3800	LS: tan-lt brn, f. med xln inter xln & NS.
19	SH: Vari. clud. lt gry, lt bluish-grn, reddish brn, blkgy.
20	LS: lt tan, sme lt brn, f xln inter xln & dus ip, cherty.
30	LS: wt-tan, f. med xln, F550, sd. SSI cln, pink black stn, 311, 201, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000
40	SAA. Note: Irresidence covered smpl tray. Very good show.
50	SH: motly gry. varicled. platy-bkky
60	SS: cln, f-Cgrn, poor sort, friable - well consolidated, rind - subagg, sili. cnt. F550 string of 1/2" sh-set-d 5" sh. sme drk 6/4K stn.
80	SS: SAB, sme cistrs Fe ²⁺ sme cistrs dead oil flks.
90	SS: SAB, sme cistrs F550, increasing abundant dead oil flks.
3900	SS: SAB
3910	TOTAL DEPTH CFS
20	

J. J. Lamm
 MAPG # 5741

DST #1
 3797-3823
 15-45-15-45



ISIP 1000 #
 F5IP 953 #
 IFP 17 # w/1/2" Blaw
 FFP 23 # No Blaw
 RECI: 10' MUD w/slight Show oil
 VIS 52
 wt. 9.4
 Fil. 8.0
 CL 6.4K
 Lcm. 1 #

7:00 PM 03-31-2018

Wish I had a pi

7:00 PM 03-31-2018

Wish I had a piece of this well.

Ed Lanman
AAPG # 5741

2900
3910
20

TOTAL DEPTH 3910



REMARKS

OIL SHOWS

SAMPLE DESCRIPTIONS

LITHOLOGY

LOCATION 330' FNL @ 3961' FEL

SEC 11 TWP 14S RNG 20W

COUNTY ELLIS STATE KANSAS

CONTRACTOR ROYAL DRILLING RIG #1

LEASE JOSEPHINE #2 IP 3910

ELEVATION 2250, 2256 KB RTD

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 728

Date <u>3-26-18</u>	Sec. <u>11</u>	Twp. <u>14</u>	Range <u>20</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>10:00 Am.</u>
				Location <u>Ellis Golf Course rd 2E S17+0</u>			

Lease <u>Josephine</u>	Well No. <u>2</u>	Owner
Contractor <u>Royal</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>Surface</u>		Charge To <u>Longstar</u>
Hole Size <u>12 1/4</u>	T.D. <u>1547</u>	Street
Csg. <u>8 5/8</u>	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <u>42'</u>	Shoe Joint <u>42'</u>	Cement Amount Ordered <u>530 6/40 4/11 2/16 2/16</u>
Meas Line	Displace <u>95 3/4 BL</u>	

EQUIPMENT

Pumptrk <u>17</u>	No.	Cementer <u>Chris</u>
		Helper <u>Brett</u>
Bulktrk	No.	Driver <u>Dug</u>
Bulktrk <u>19</u>	No.	Driver <u>Dug</u>

Common	<u>320</u>
Poz. Mix	<u>210</u>
Gel.	
Calcium	<u>23</u>
Hulls	<u>10</u>

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8 5/8 on bottom Est. Circulation
Mix 53% & Displace Aug
Plug landed 800'
Shut in 500'
Cement Circulated!

Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	<u>563</u>
Mileage	
FLOAT EQUIPMENT <u>8 5/8</u>	
Guide Shoe	<u>Rubber Plug</u>
Centralizer	<u>Baffle Plate</u>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	<u>Long Surface</u>
Mileage	<u>15 (mim)</u>

Signature <u>Roy Budy</u>	Tax
	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

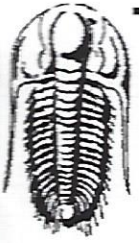
Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 684

Date	4-1-18	Sec.	11	Twp.	14	Range	20	County	Ellis	State	Ks	On Location		Finish	4:30 AM
Lease								Location							
Josephine								Hayis - Golf Course Rd, 7-8 W							
Contractor				Well No.				Owner							
Royal #1				2				S/into							
Type Job				T.D.				Charge To							
Longstring				3910'				Lonestar							
Hole Size				Depth				Street							
7 7/8"				3910' 32'											
Csg. 5 1/2" 15.50# New				Depth				City				State			
Tbg. Size				Depth											
Tool				Depth											
Cement Left in Csg. 15.76'				Shoe Joint 15.76'				Cement Amount Ordered				250 60/40 150 Com			
Meas Line				Displace				Common							
				92 1/2 BLS				500 gal mud Clear 48							
EQUIPMENT								Common							
Pumptrk 17				No. Cementer/Helper				Frovis				Rick			
Bulktrk 15				No. Driver				Doug							
Bulktrk 3				No. Driver				David							
JOB SERVICES & REMARKS								Hulls							
Remarks:								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
Circulation pump								Handling							
500 gal mud Clear 48, plug Rathale w/ 305x, plug marshale w/ 155x. Cement casing w/ 2055x 60/40 + 150 5x Com. Shut down.								Mileage							
wash pump + lines Displaced plug w/ 92 1/2 BLS. Released + held.								FLOAT EQUIPMENT							
Lift pressure 900 #								Guide Shoe							
Land plug to 1500 #								Centralizer 3							
								Baskets 3							
								AFU Inserts							
								Float Shoe 1							
								Latch Down 1							
								Pumptrk Charge							
								Prod String							
								Mileage 15 (min)							
X Signature								Tax							
								Discount							
								Total Charge							



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Lonestar Oil Co
 PO Box 205
 Gorham Ks 67640-0205
 ATTN: Jeff Crawford, Ed Gla

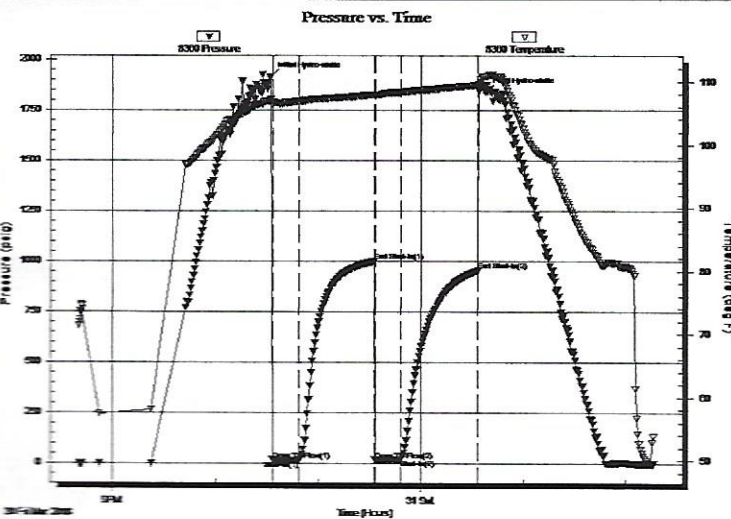
11-14s-20w Ellis
Josephine #2
 Job Ticket: 63853 **DST#: 1**
 Test Start: 2018.03.30 @ 20:40:14

GENERAL INFORMATION:

Formation: **Congl. Sd**
 Deviated: **No** Whipstock: ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 22:33:09 Tester: **Ray Schwager**
 Time Test Ended: 02:16:23 Unit No: **77**
 Interval: **3797.00 ft (KB) To 3823.00 ft (KB) (TVD)** Reference Elevations: **2255.00 ft (KB)**
 Total Depth: **3823.00 ft (KB) (TVD)** **2250.00 ft (CF)**
 Hole Diameter: **7.85 inches** Hole Condition: **Fair** KB to GR/CF: **5.00 ft**

Serial #: 8360 **Inside**
 Press@RunDepth: **23.59 psig @ 3798.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2018.03.30** End Date: **2018.03.31** Last Calib.: **2018.03.31**
 Start Time: **20:40:14** End Time: **02:16:23** Time On Btm: **2018.03.30 @ 22:32:24**
 Time Off Btm: **2018.03.31 @ 00:38:09**

TEST COMMENT: 15-IFP-Weak blow thru-out 1/2"to 1/4"blow
 45-ISIP-no blow
 15-FFP-no blow
 45-ISIP-no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1915.70	107.19	Initial Hydro-static
1	18.90	106.34	Open To Flow (1)
17	17.70	106.95	Shut-In(1)
61	1000.08	107.95	End Shut-In(1)
61	18.87	107.79	Open To Flow (2)
76	23.59	108.35	Shut-In(2)
121	953.68	109.46	End Shut-In(2)
126	1839.41	110.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/slight show of oil	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Lonestar Oil Co
PO Box 205
Gorham Ks 67640-0205

11-14s-20w Ellis

Josephine #2

Job Ticket: 63853

DST#: 1

ATTN: Jeff Crawford, Ed Gla

Test Start: 2018.03.30 @ 20:40:14

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 6.40 in³
Resistivity: ohm.m
Salinity: 4800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w /slight show of oil	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8360

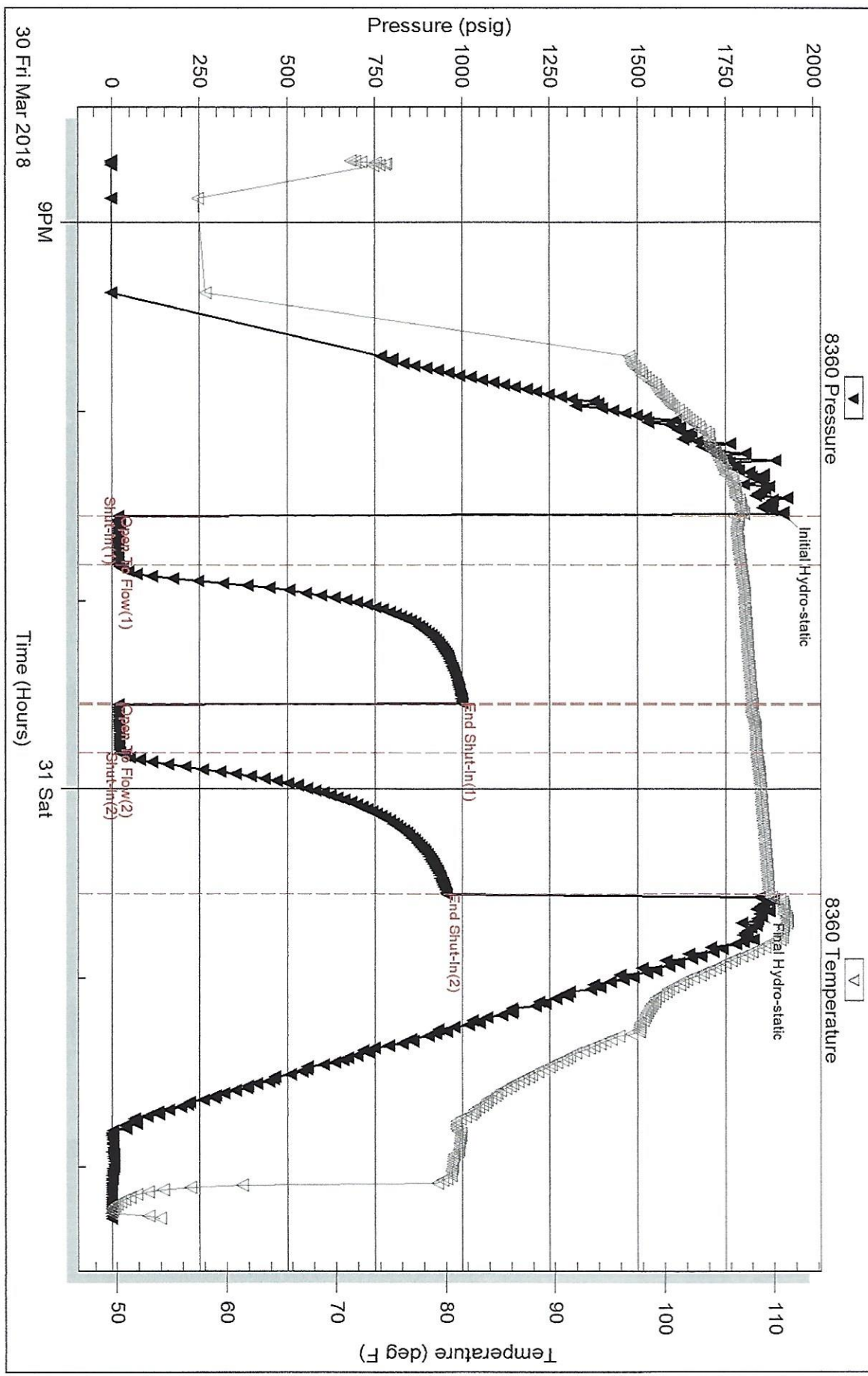
Inside

Lonestar Oil Co

Josephine #2

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63853

Printed: 2018.03.31 @ 03:06:22

