

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	Daystar Petroleum, Inc.
Well Name	JENSEN KING UNIT 2-36
Doc ID	1424856

All Electric Logs Run

Sonic Log
Dual Comp Porosity
Dual Induction Log
Microresistivity



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045
ATTN: Jon Christensen

Jensen King Unit2-36

Job Ticket: 63150 **DST#: 1**

Test Start: 2018.09.22 @ 15:06:14

GENERAL INFORMATION:

Formation: **Toronto- LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:37:14

Time Test Ended: 22:14:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3292.00 ft (KB) To 3380.00 ft (KB) (TVD)**

Reference Elevations: 2077.00 ft (KB)

Total Depth: 3380.00 ft (KB) (TVD)

2072.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6753 Inside

Press@RunDepth: 66.16 psig @ 3293.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.22 End Date: 2018.09.22

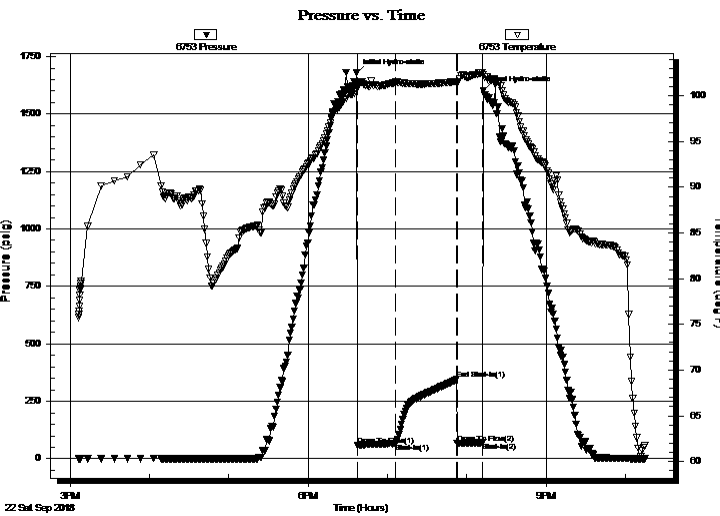
Last Calib.: 2018.09.22

Start Time: 15:06:19 End Time: 22:14:43

Time On Btm: 2018.09.22 @ 18:36:44

Time Off Btm: 2018.09.22 @ 20:12:44

TEST COMMENT: 30- IF- Slowly built to .75" then died back to .5"
45- IS- No blow
15- FF- No blow . Pulled tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1677.68	100.67	Initial Hydro-static
1	57.28	100.79	Open To Flow (1)
30	66.16	101.53	Shut-In(1)
76	345.75	101.56	End Shut-In(1)
76	66.90	101.41	Open To Flow (2)
95	70.10	102.55	Shut-In(2)
96	1602.89	102.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045

Jensen King Unit2-36

Job Ticket: 63150

DST#: 1

ATTN: Jon Christensen

Test Start: 2018.09.22 @ 15:06:14

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.00 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

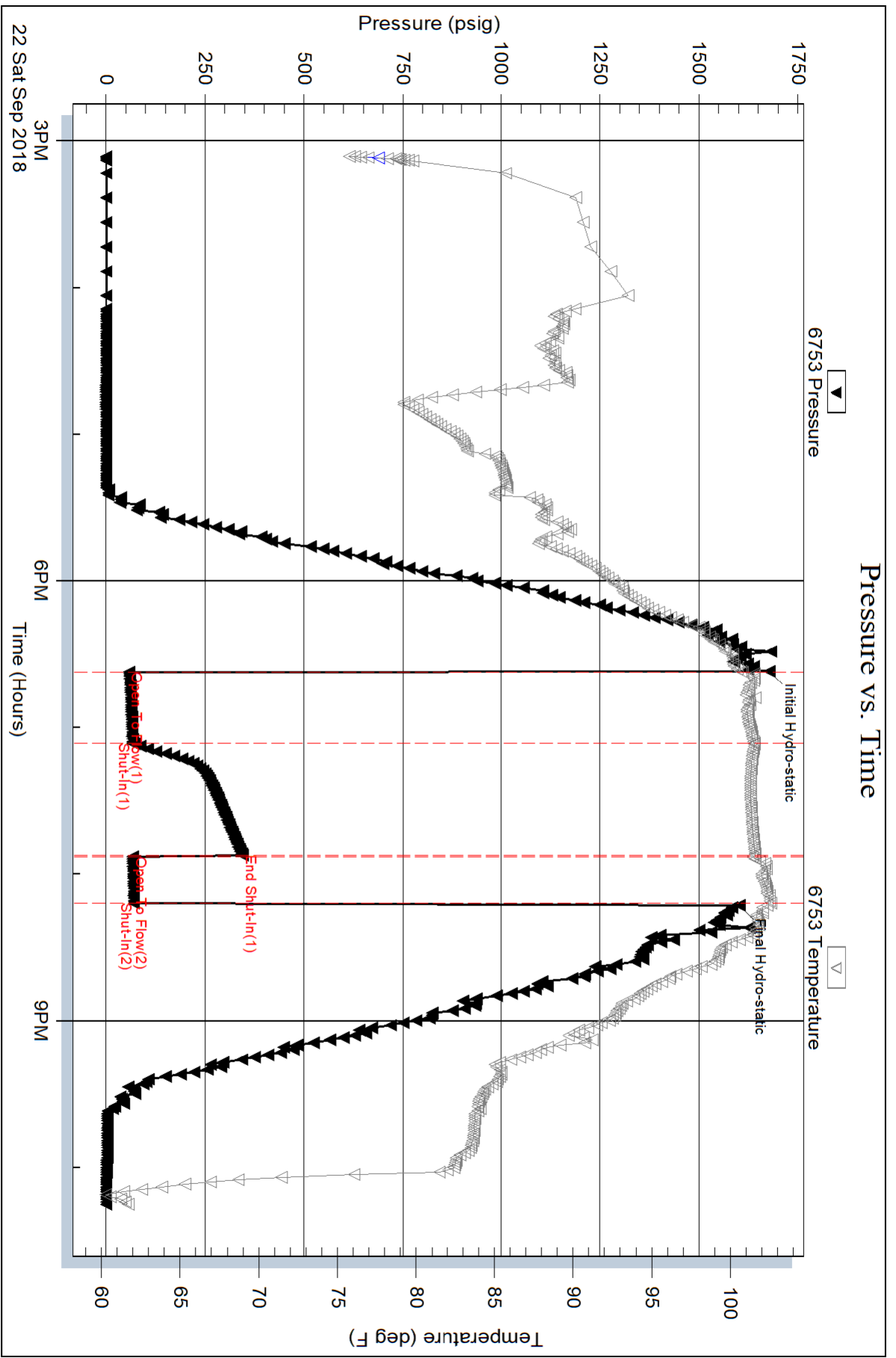
Serial #: 6753

Inside

Daystar Petroleum, Inc.

Jensen King Unit2-36

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63150

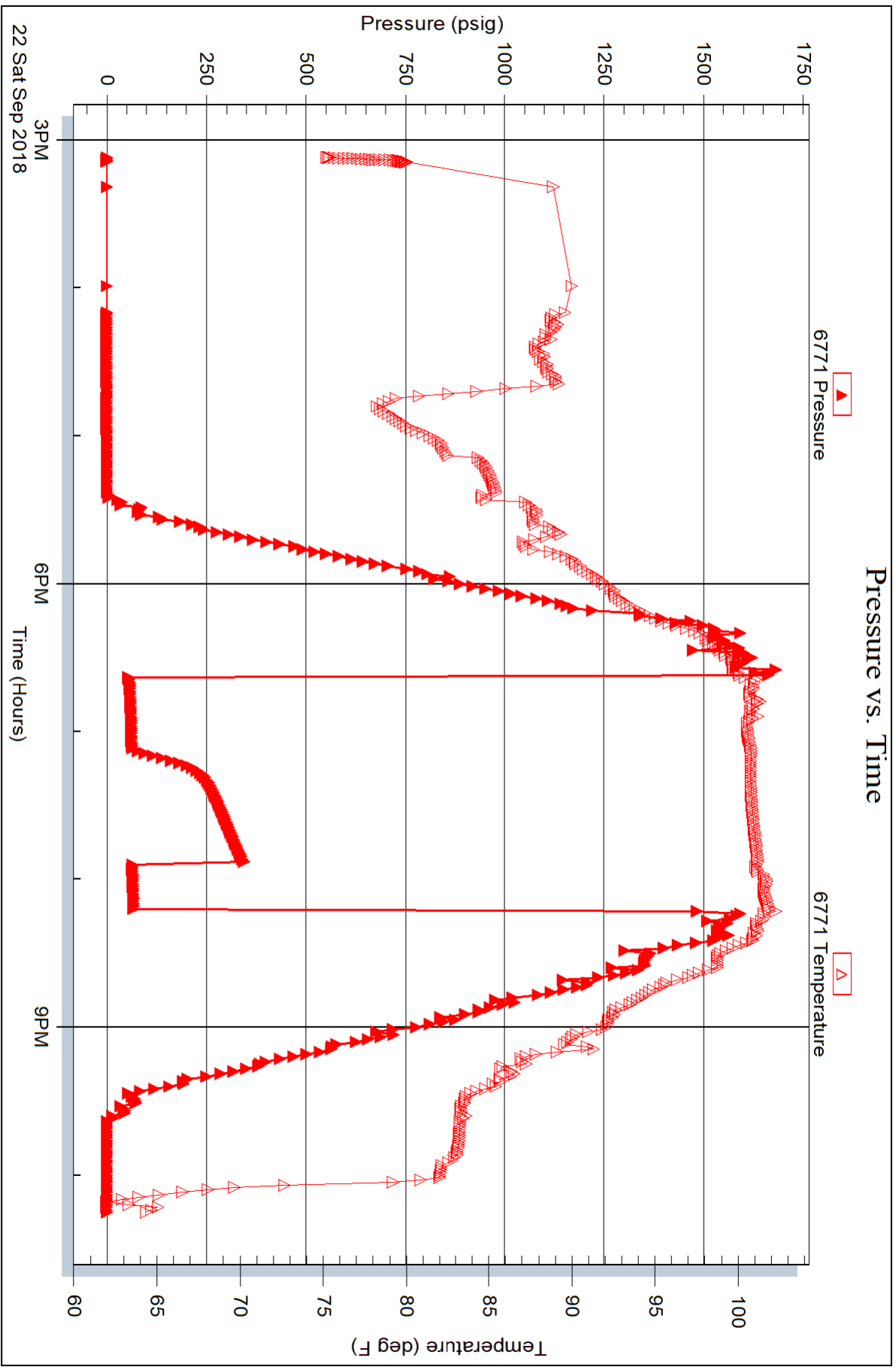
Printed: 2018.09.23 @ 07:33:35

Serial #: 6771

Outside Daystar Petroleum, Inc.

Jensen King Unit2-36

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045
ATTN: Jon Christensen

Jensen King Unit2-36

Job Ticket: 64776 **DST#: 2**

Test Start: 2018.09.23 @ 08:02:39

GENERAL INFORMATION:

Formation: **LKC "D-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:18:09
 Time Test Ended: 16:33:39
 Interval: **3397.00 ft (KB) To 3440.00 ft (KB) (TVD)**
 Total Depth: 3440.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2077.00 ft (KB)
 2072.00 ft (CF)
 KB to GR/CF: 5.00 ft

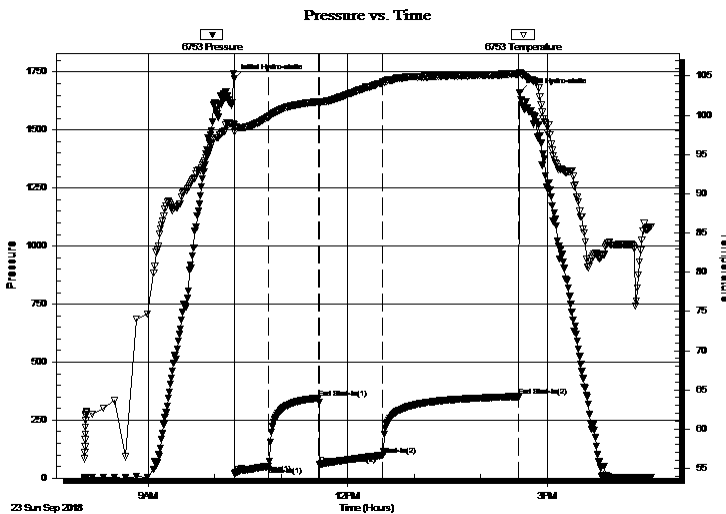
Serial #: 6753

Outside

Press@RunDepth: 98.84 psig @ 3398.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.23 End Date: 2018.09.23 Last Calib.: 2018.09.23
 Start Time: 08:02:44 End Time: 16:33:38 Time On Btm: 2018.09.23 @ 10:17:39
 Time Off Btm: 2018.09.23 @ 14:35:09

TEST COMMENT: 030- IF- Slow ly built to 4.85"
 045- IS- No blow in bucket, 1" on iPro sensor
 060- FF- Slow ly built to 6.03"
 120- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.90	98.80	Initial Hydro-static
1	19.94	97.87	Open To Flow (1)
31	52.29	99.82	Shut-In(1)
76	345.38	101.73	End Shut-In(1)
77	59.34	101.68	Open To Flow (2)
134	98.84	104.13	Shut-In(2)
257	351.46	105.31	End Shut-In(2)
258	1662.15	105.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	MW, 30%M 70%W	0.74

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045

Jensen King Unit2-36

Job Ticket: 64776

DST#: 2

ATTN: Jon Christensen

Test Start: 2018.09.23 @ 08:02:39

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:

60000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	MW, 30%M 70%W	0.738

Total Length: 150.00 ft Total Volume: 0.738 bbl

Num Fluid Samples: 0

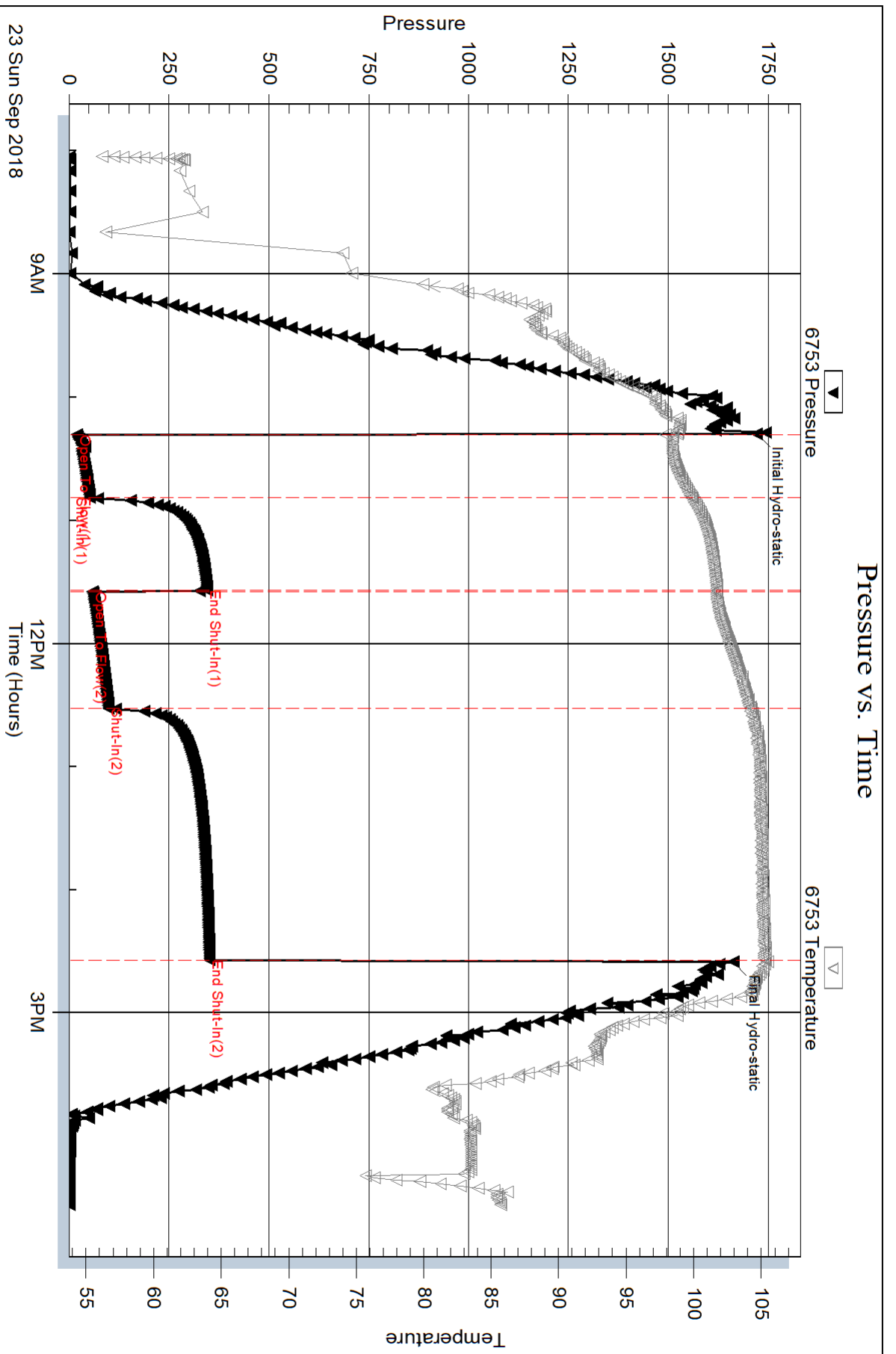
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .10@76deg



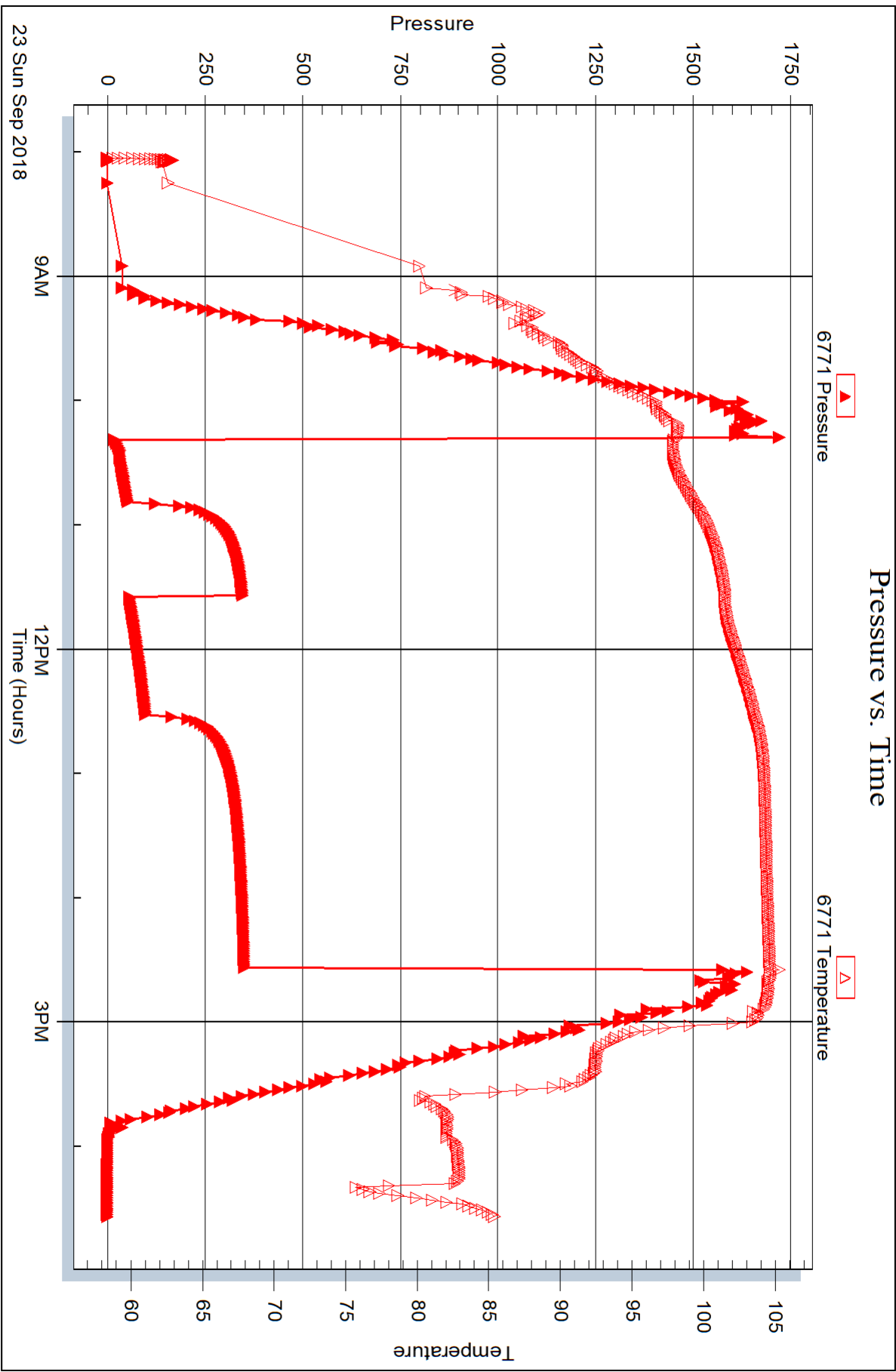
Serial #: 6771

Inside

Daystar Petroleum, Inc.

Jensen King Unit2-36

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045
ATTN: Jon Christensen

Jensen King Unit2-36

Job Ticket: 64777 **DST#: 3**
Test Start: 2018.09.24 @ 04:06:06

GENERAL INFORMATION:

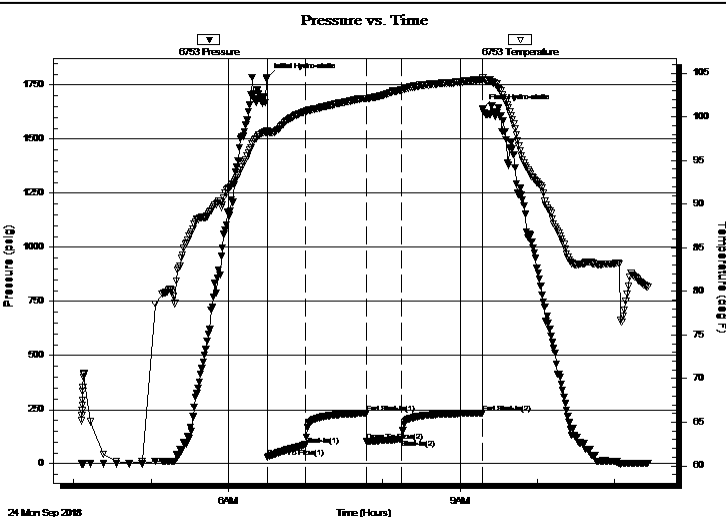
Formation: **LKC "H-J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:30:36
 Time Test Ended: 11:26:06
 Interval: **3456.00 ft (KB) To 3530.00 ft (KB) (TVD)**
 Total Depth: 3530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 73
 Reference Elevations: 2077.00 ft (KB)
 2072.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753

Inside

Press@RunDepth: 114.67 psig @ 3457.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.09.24 End Date: 2018.09.24 Last Calib.: 2018.09.24
 Start Time: 04:06:11 End Time: 11:26:05 Time On Btm: 2018.09.24 @ 06:30:06
 Time Off Btm: 2018.09.24 @ 09:17:36

TEST COMMENT: 30- IF- Slow ly built to 9.38"
 45- IS- No blow in bucket. 1" on iPro sensor
 30- FF- Slow ly built to 5.31"
 60- FS- No blow in bucket. .14 on iPro sensor



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1783.15	98.40	Initial Hydro-static
1	30.16	98.09	Open To Flow (1)
30	87.75	100.59	Shut-In(1)
77	233.72	102.11	End Shut-In(1)
78	102.22	102.07	Open To Flow (2)
105	114.67	103.08	Shut-In(2)
167	234.67	104.27	End Shut-In(2)
168	1639.56	104.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	SOCWM, 5%O 5%W 90%M	0.89
73.00	SOCM, 5%O 95%M	1.03
2.00	CO	0.03

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Daystar Petroleum, Inc.

36-12S-18W Ellis, KS

522 N. Main St.
PO Box 560
Eureka, KS 67045

Jensen King Unit2-36

Job Ticket: 64777

DST#: 3

ATTN: Jon Christensen

Test Start: 2018.09.24 @ 04:06:06

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

55000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	SOCWM, 5%O 5%W 90%M	0.885
73.00	SOCM, 5%O 95%M	1.035
2.00	CO	0.028

Total Length: 255.00 ft Total Volume: 1.948 bbl

Num Fluid Samples: 0

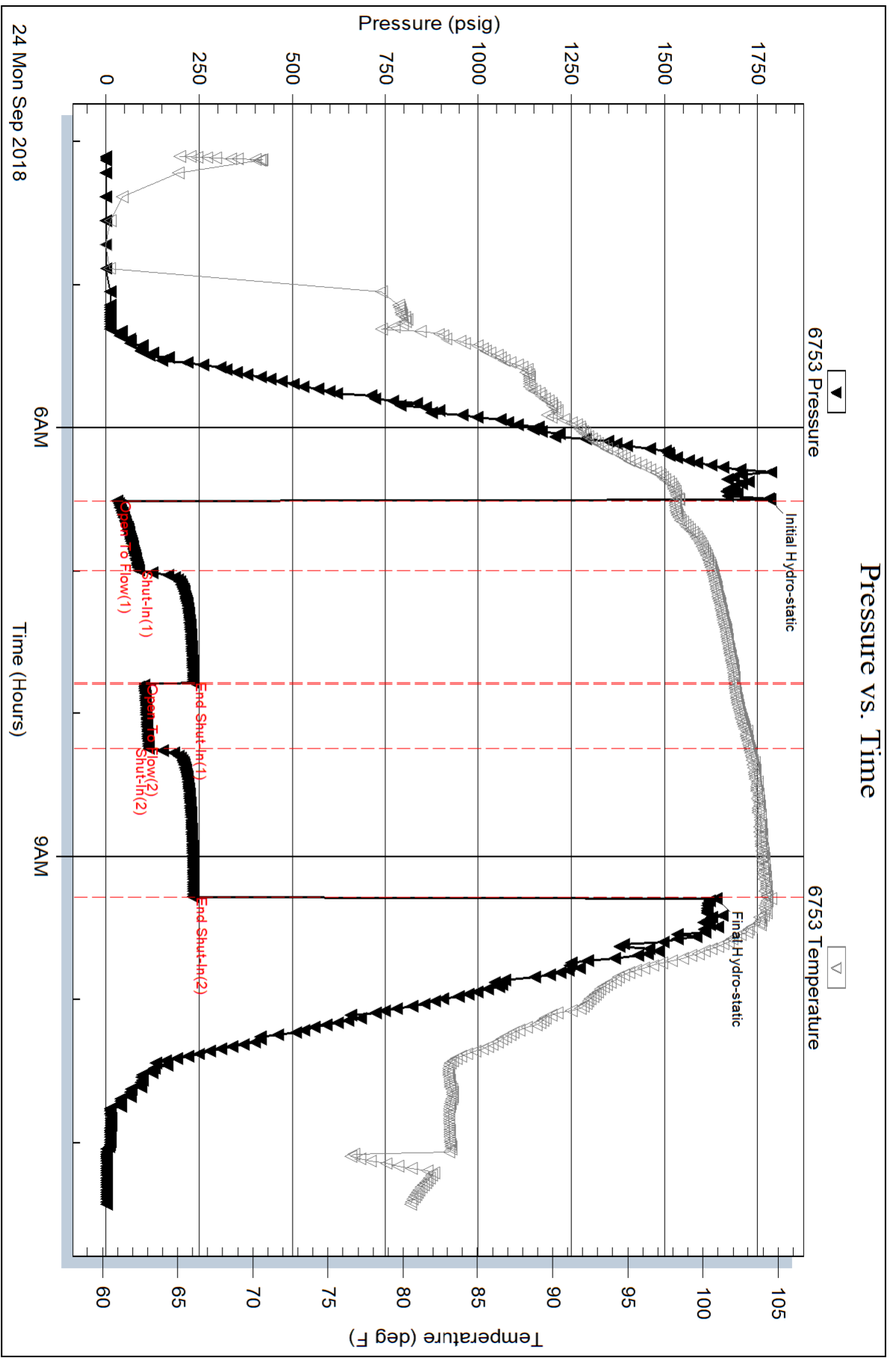
Num Gas Bombs: 0

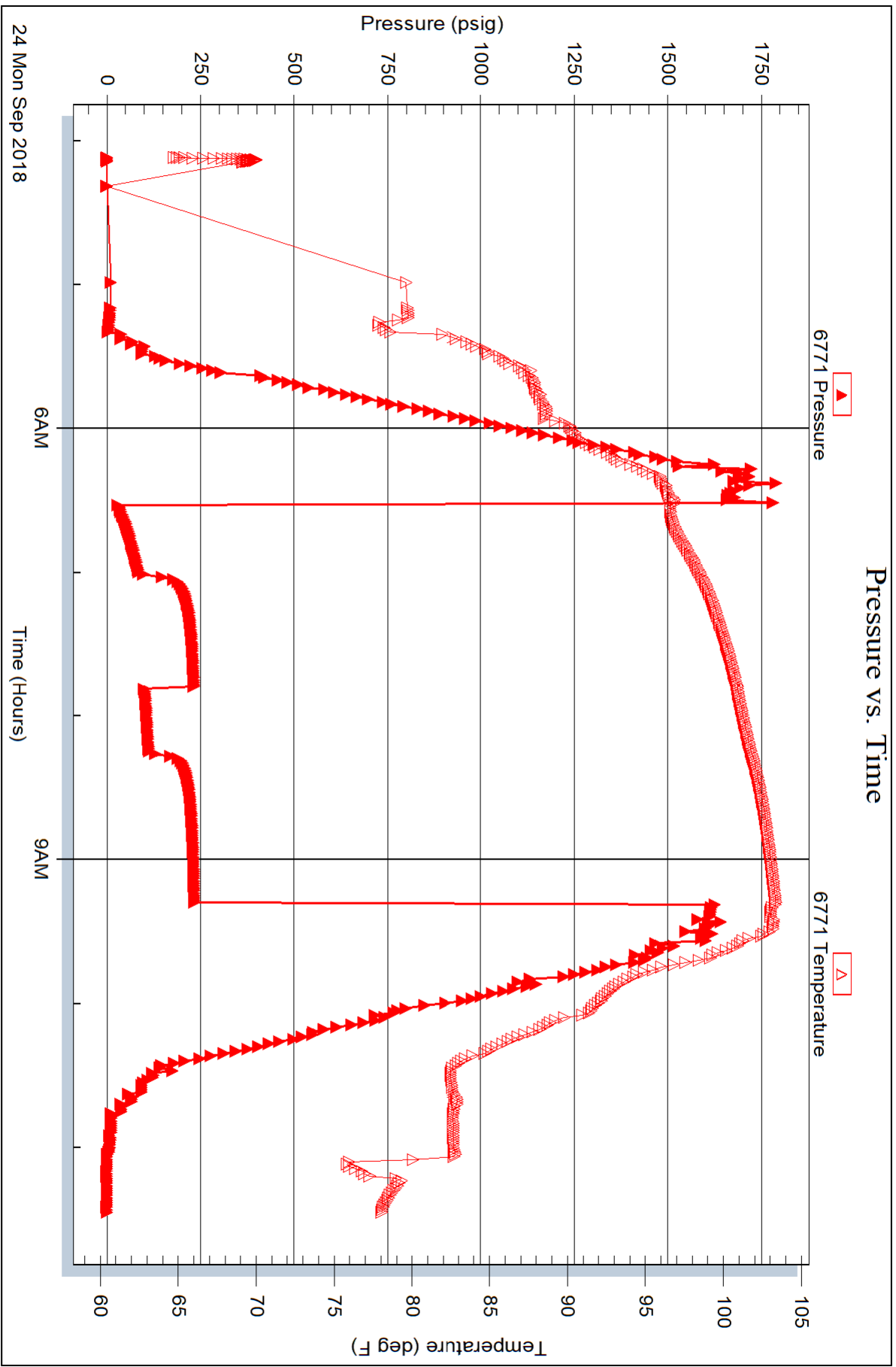
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: .13@66deg





LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: Jensen King Unit #2-36
Location: 1606' FNL & 905' FWL, Sec. 36-T12S-R18W, Ellis Co., KS.
Licence Number: 15-051-26919-00-00 Region: Holy Cross Field
Spud Date: 9/17/2018 Drilling Completed: 9/25/2018
Surface Coordinates: 1606' FNL & 905' FWL, Sec. 36-T12S-R18W

Bottom Hole Same as Above
Coordinates:
Ground Elevation (ft): 2072' K.B. Elevation (ft): 2077'
Logged Interval (ft): 2850' To: TD. Total Depth (ft): 3725'
Formation: Conglomerate Chert at Total Depth
Type of Drilling Fluid: Freshwater/Gel to 2825'; Chemical Gel 2800' to 3725'.
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Daystar Petroleum, Inc.
Address: P. O. Box 560
Eureka, KS. 67045-0560

GEOLOGIST

Name: Jon D. Christensen
Company: Consulting Petroleum Geologist
Address: 277 S. Maple Dunes Ct.
Wichita, KS. 67235-7500

Cores

None Taken

DSTs

DST #1: 3290' - 3378' Toronto, Lansing A, B + C zones(Depths adjusted to Log depths) Test Times 30"-45"-15"-OUT IFP Weak 0.75" Blow that decreased to 0.5", ISI No Blowback, FFP No Blow, Pulled Test - no FSI; REC: 15' Drlg. Mud, no shows; IFP 57-66#, ISIP 346#, FFP 67-70#, FSIP None, IHP 1678#, FHP 1603#, BHT 103 Deg. F.

DST #2: 3395' - 3438' Lansing D, E, F and G zones(Depths adjusted to Log depths) Test Times 30"-45"-60"-120" IFP Weak blow built to 4.85", ISI 1" Blowback on IPro sensor, FFP Weak blow built to 6.03", FSI No Blowback; REC: 150' MSW(30%M, 70%W, CI 69,000 from MudCo); IFP 20-52#, ISIP 345#, FFP 59-99#, FSIP 351#, IHP 1721#, FHP 1662#, BHT 105 Deg. F.

DST #3: 3454' - 3528' Lansing/KC H, I and J zones(Depths adjusted to Log depths) Test Times 30"-45"-30"-60" IFP Fair blow built to 9.38", ISI 1" Blowback on iPro Sensor, FFP Fair blow built to 5.31", FSI No blowback; REC: 2' Clean Oil, 73' OCM(5%O, 95%M), 180' OCWM(5%O, 5%W, 90%M, CI 64,000 from MudCo); IFP 30-88#, ISIP 234#, FFP 102-115#, FSIP 235#, IHP 1783#, FHP 1640#, BHT 104 Deg. F.

Other Data

9/17/18 MIRU Murfin Drilling Co. Rig #8 , Spud at 5:30 PM.; 9/18/18 TD. 259' - WOC; 9/19/18 Drilling at 1650' - Bit Trip at 1682'; 9/20/18 Drilling at 2220'; 9/21/18 Drilling at 2825'; 9/22/18 TD. 3333' - CFS in Toronto; 9/23/18 TD. 3440' - CFS in Lansing 'G' zone; 9/24/18 TD. 3530' - DST #3; 9/25/18 TD. 3675' - Logging. LTD. 3674' - Drilled deeper to 3725' RTD. Reached DDTD. at 2:11 PM, D & A - Plugged well at 11:00 PM.; 9/26/18 Released rig at 3:00 AM. D & A.

Set new 8 5/8"(23#) Surface Casing at 259' with 175 sacks of Cement(Basic Energy Services). Cement did circulate. PD. at 12:15 AM. on 12/18/18.

Surveys: 0.50 Deg. at 259'(Surface Casing); 0.75 Deg. at 1682'(Bit Trip); 1.0 Deg. at 3380'(DST #1); 1.0 Deg. at 3675'.


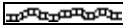
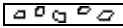










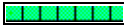

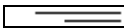
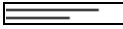



Pipe Strap at 3380'(DST #1): Strap 0.27' Short to the Board, no correction made to the Board.

After review of the Pioneer Energy Services logs, DST information and sample data, the operator elected to Plug and Abandon the #2-36 Jensen King Unit well at RTD. 3725' on 9/25/18.








































































LOG TOPS: Anhydrite 1316(+761), Base Anhydrite 1358(+719), Stotler Lmst. 2861(-784), Topeka 3057(-980), Queen Hill Shale 3219(-1142), Heebner Shale 3294(-1217), Toronto 3316(-1239), Lansing 'A' 3345(-1268), Lansing 'E' 3411(-1334), Lansing/KC 'H' 3470(-1393), Stark Shale 3529(-1452), KC 'K' 3538(-1461). Base Kansas City 3579(-1502), Conglomerate Chert 3626(-1549), Original RTD. 3675', LTD. 3674'. Drilled deeper TD. 3725'(-1648). Arbuckle NOT PENETRATED.

NOTE: This log was shifted upward by 1' to 2' for correlation purposes with the Pioneer Energy Services logs.

ROCK TYPES

 Anhy  Bent  Brec  Cht	 Clyst  Coal  Congl  Dol	 Gyp  Igne  Lmst  Meta	 Mrlst  Salt  Shale  Shcol	 Shgy  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**
 [E] Earthy
 [F] Fenest
 [X] Fracture
 [M] Moldic
 [O] Organic
 [P] Pinpoint

[V] Vuggy

- SORTING**
 [W] Well
 [M] Moderate
 [P] Poor

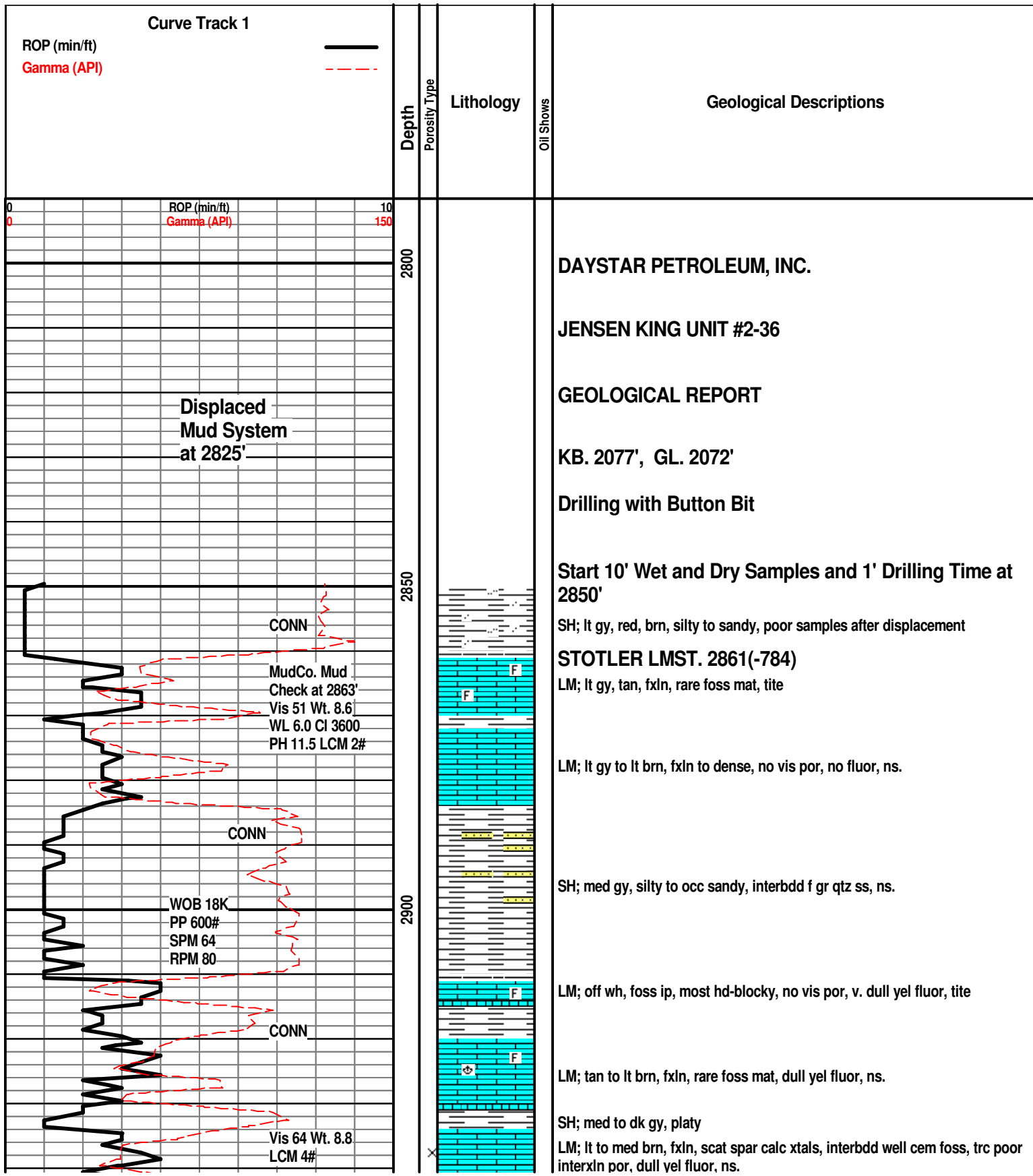
- ROUNDING**
 [R] Rounded
 [r] Subrnd
 [a] Subang
 [A] Angular

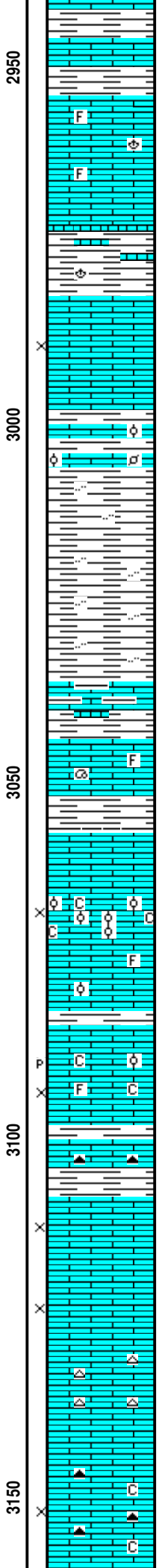
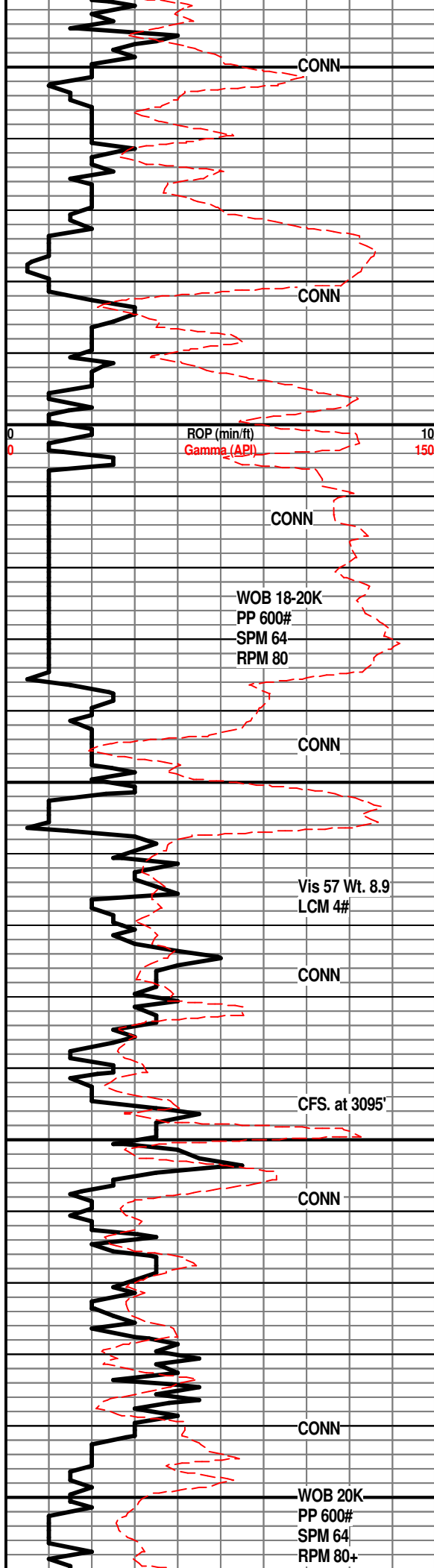
OIL SHOW
 [●] Even

- [●] Spotted
 [○] Ques
 [D] Dead

- INTERVAL**
 [■] Core
 [□] Dst

- EVENT**
 [▽] Rft
 [▶] Sidewall





SH; med to dk gy, fiss

LM; tan to lt brn, fxln, scat foss mat, no vis por, no fluor, ns.

SH; med gy, med gy brn, lmy ip, rarely foss

LM; off wh, tan, fxln, occ soft w/some poor interxln por, scat lt yel min fluor, no stn or odor, ns.

SH; med gy, lmy w/interbdd thin lmst strngs.

LM; med brn, blocky, scat foss - small well cem pellets and ooids, tite

SH; lt to med gy, occ silty, flakey to platy

LM; med gy to gy brn, v. shaly ip w/interbdd lmy sh.

LM: med brn, hd, foss, dense

SH; lt to med gy, soft
TOPEKA 3057(-980)

LM; tan to lt gy, fxln to micritic, blocky, no vis por, no fluor, ns.

LM; wh to off wh, finely oolitic ip, trc poor interpart por, scat chalk and chalky mtx, lt yel fluor, no stn or odor, ns.

LM; tan to lt brn, scat foss mat - well cem, no vis por, no fluor, ns.

LM; off wh, med xln to gran, scat fair to gd p-p and interxln por, rare foss, minor chaly mtx, lt yel fluor, no stn or odor, ns.

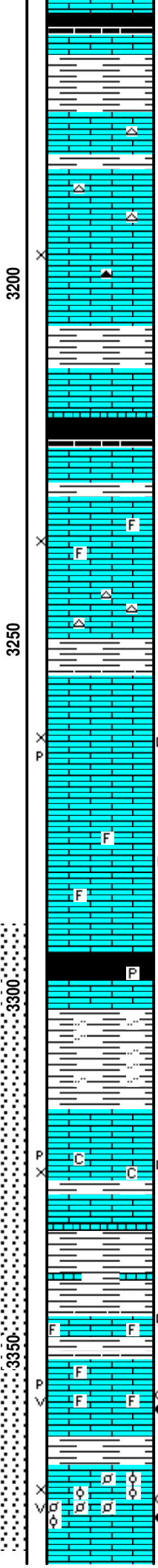
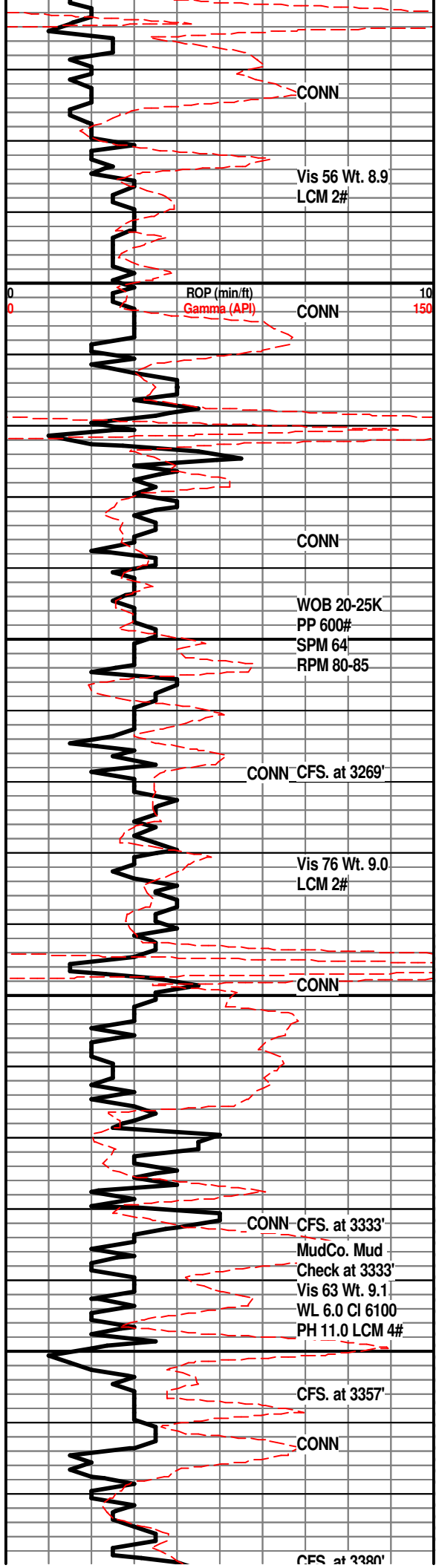
LM; med brn, dense, scat dk gy cht, tite

LM; lt brn, tan - buff, med xln to gran, fair to gd interxln por, lt yel fluor, no stn or odor, ns.

LM; tan to lt brn, f to med xln, poor vis interxln por, soft ip, dull yel fluor, ns.

LM; lt to med brn, gy brn, blocky, scat med gy cht, no vis por, tite

LM; lt brn, f to med xln, fair interxln por, minor soft chalky mtx, dull yel to no fluor, scat dk gy cht, ns.



SH; blk, carb ip, platy

SH; med gy, rare gy grn, platy, firm

LM; tan to buff, lt gy, rare fxln, most dense - micritic, rare tan fresh cht, ns.

LM; tan to cream, buff, fxln, occ poor interxln por, occ med to dk gy cht, no stn or odor, ns.

QUEEN HILL SHALE 3219(-1142)

SH; blk, carb ip, platy

LM; tan to lt brn, fxln w/occ foss mat, rare poor interxln/interpart por, most tite, scat dull yel fluor, no stn or odor, ns.

LM; tan to buff, lt brn, fxln ip, most dense, occ gy cht, no vis por, ns.

SH; med gy, gy grn, fiss

LM; tan to cream, f to med xln, fair interxln w/occ p-p por, soft ip, v. dull yel fluor, trc blk/dk brn dead oil stn/spots, no odor, no F.O.

LM; lt brn, occ lt gy brn, most dense - micritic, scat well cem foss mat, few pcs w/blk tar - gils, looks tite

HEEBNER SHALE 3294(-1217)

SH; blk, carb ip, platy, rare pyr

LM; tan to buff, fxln to dense, tite

SH; lt gy grn, occ silty, fiss

TORONTO 3316(-1239)

LM; tan to wh, off wh, med xln w/spar calc xtals, most w/lt yel fluor, rare poor interxln por, rare pcs w/dk brn hvy oil stn, no odor, no F.O., looks tite, occ soft chalky mtx, trc p-p por also, very weak cut

SH; med gy, gy grn, lmy ip.

LANSING 'A' 3345(-1268)

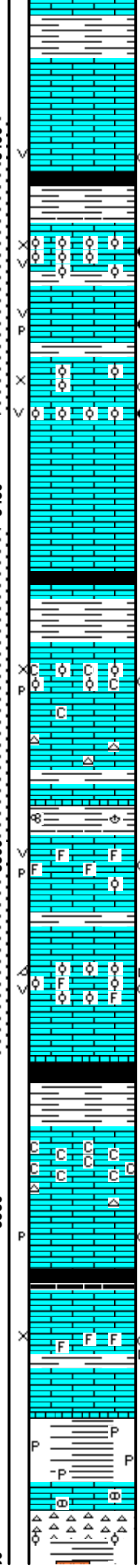
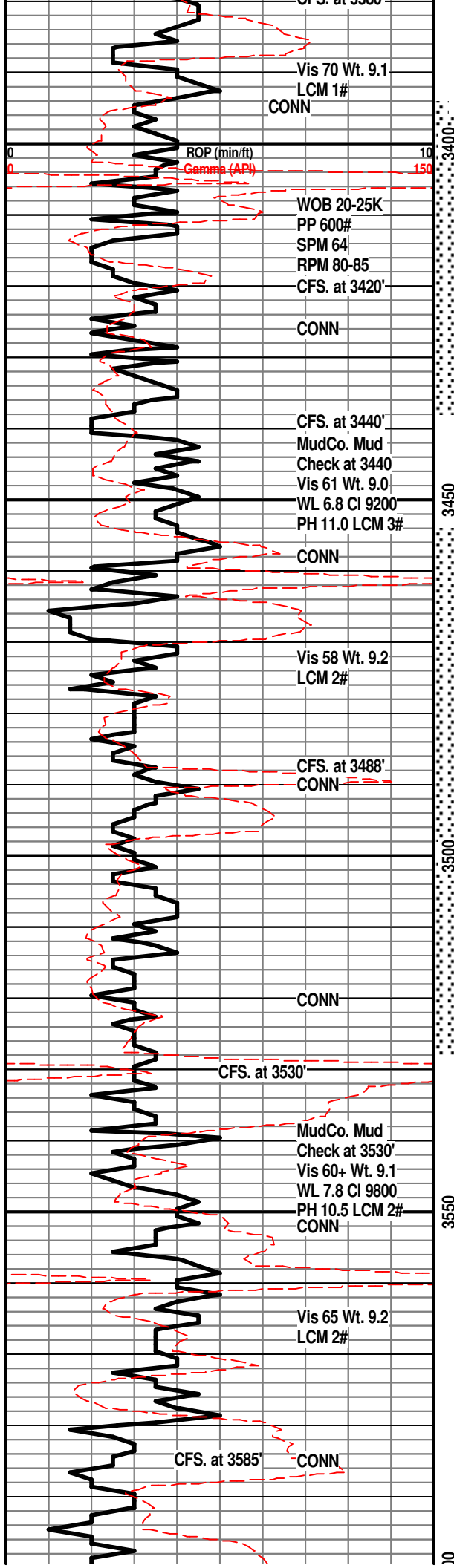
LM; tan to lt brn, foss ip, well cem, rare spots of dk brn dead oil, most looks tite

LM; off wh, tan, f to med xln, occ foss, fair p-p and vug por, spotted to occ even med brn stn, faint odor, trc. F.O. when crushed, fair to gd cut in select pcs.

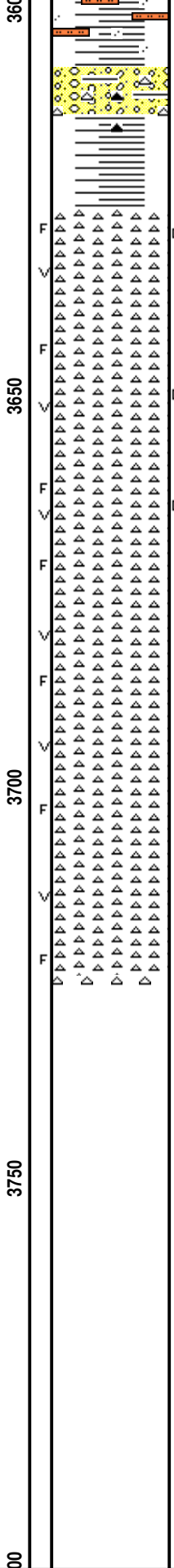
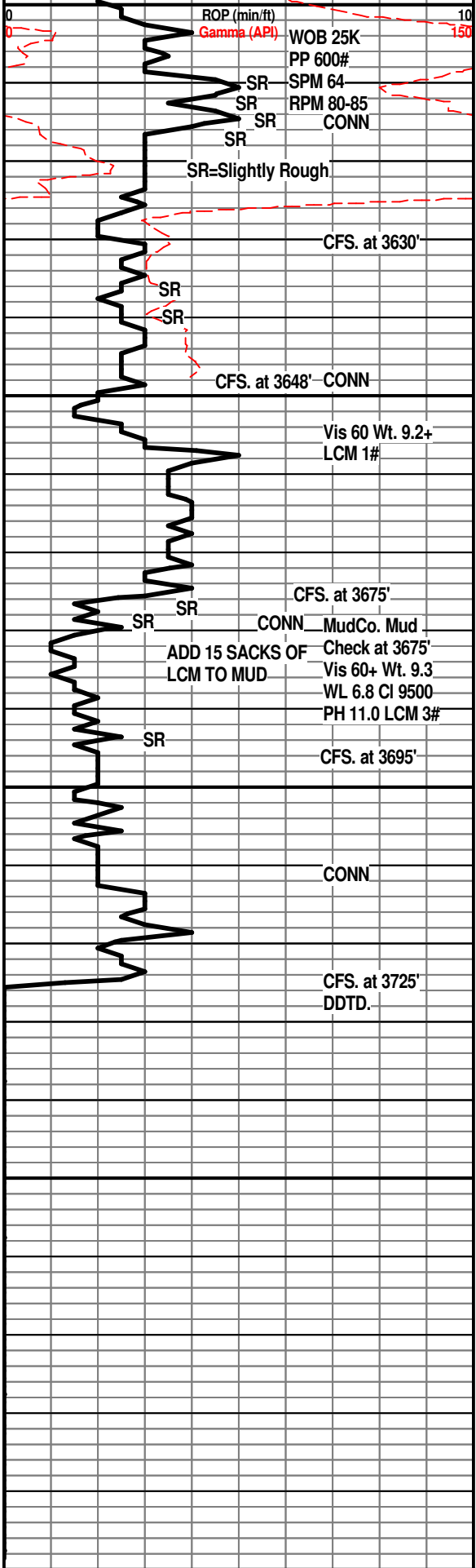
LANSING 'C' 3366(-1289)

LM; off wh, wh, oolitic ip w/scat small pellets and oolites, fair interpart and occ vug por, spotted to rarely even med brn oil stn, most w/golden yel fluor, faint odor, trc F.O., gd cut in select pcs.

DST #1: 3200' - 3278' (Corrected Depth to Log)



DST #1: 3290' - 3378' (Corrected Depths to Log)
Toronto, Lsg. A, B & C zones
LANSING 'D' 3388(-1311)
 LM; lt gy to lt brn, blocky, most micritic, no vis por, ns.
 LM; off wh, wh, fxln, scat fair vug por, much lt to med brn spotted live oil stn, SFO, gd odor, med yel fluor
 SH; blk, platy
LANSING 'E' 3411(-1334)
 LM; tan to cream, finely oolitic, fair interpart and scat vug por, SFO, med yel fluor, most w/even med brn stn, gd odor, gd cut
 LM; tan to cream, fxln, well dev. p-p and scat vug por, much even med brn stn, SFO, med yel fluor, fair to gd odor, most w/gd cut
LANSING 'G' 3430(-1353)
 LM; tan to off wh, oolitic ip, fair interool/interpart por, interbdd brn fxln lmt w/scat vug por, med yel fluor, SFO, strong to "stinky" odor, fair to gd cut on select pcs, spotted to even stn
DST #2: 3395' - 3438'(Corrected Depths to Log) Lsg. D, E, F & G zones
 LM; tan to buff, dense - micritic, tite
 SH; blk, carb ip, platy
 SH; med gy, flakey, soft ip.
LANSING/K.C. 'H' 3470(-1393)
 LM; tan to off wh, finely oolitic, poor to fair interool/interpart por, some chalky mtx, few pcs w/fair p-p por also, spotted lt to med brn stn, fair odor, most w/lt yel fluor, fair cut, some looks tite
 LM; tan to cream, most dense - micritic, scat off wh cht, tite
 SH; med gy, foss ip, platy
 LM; off wh, tan - cream, foss, scat fair p-p and vug por, most w/spotted med brn stn, VSSFO, fair odor, med yel fluor - few pcs w/brite yel fluor, fair to gd cut
K.C. 'J' 3510(-1433)
 LM; tan to cream, foss - oolitic, fair oomoldic por w/scat vug por also, v. dk brn stn - some residual(dead) stn, few pcs w/med brn spotted live stn, VSSFO, gd odor, golden-brn fluor, some w/instant cut, few pcs bleeding oil droplets(tite)
STARK SHALE 3529(-1452)
DST #3: 3454' - 3528' Corrected Depths to Log) K.C. H, I & J zones
K.C. 'K' 3538(-1461)
 LM; wh, off wh, fxln, v. chalky - soft in top of zone, bcm dense, blocky, occ gy cht, ns.
 LM; tan to lt brn, fxln to micritic, rare poor p-p por, rare med brn spotted oil stn, no fluor, no odor
 SH; dk gy to blk, platy
 LM; off wh, cream - buff, fxln, rare well cem foss mat, poor interxln/interpart por, trc med to dk brn very spotted stn, some blk residual stn, no fluor, no odor, scat pcs w/edge stn, some looks tite
BASE KANSAS CITY 3579(-1502)
 SH; varic, rust red/brn, grn, maroon, occ pyr.
 LM; med gy, hd, nodular ip.
 CHT; yel, red/org, off wh, most fresh, scat off wh oolitic cht



SH; varic, lavender, rust red, interbedded light gray sandy shale and siltstone, rare green waxy shale.

CONGL; yellow and orange chert, red/brown shales, occasional varic shales

CONGLOMERATE CHERT 3626(-1549)
 CHT; white, rare yellow, fresh, some fractures with black tar/gilts, rare unstained vug porosity, dull yellow fluor, no odor

CHT; white, off white, most fresh, some trip, scattered vug porosity with fractures visible, occasional black tar/gilts on fracture faces

CHT; white, yellow, off white, fresh and trip, scattered black tar/gilts, fractures and occasional unstained vug porosity

"ORIGINAL" RTD. 3675', LTD. 3674'
NOTE: Did not log new Drilled Deeper hole from 3675' to 3725'
 CHT; white, off white, yellow, most fresh, blocky, some trip chert with scattered unstained vug porosity, dull yellow fluor

CHT; white, off white, yellow, scattered clear to opaque quartz crystals, fractures with occasional vug porosity, no fluor, ns.

CHT; white, yellow, rare pink, occasional red stained fresh chert, scattered clear to opaque quartz crystals, rare dull yellow fluor, no stain or odor, ns.

NOTE: NO ARBUCKLE PENETRATED

DRILLED DEEPER RTD. 3725'
REACHED TD. AT 2:11 PM. 9/25/18
LOGGED BY PIONEER ENERGY SERVICES
DIL, DUAL COMP. POROSITY, MICROLOG, SONIC

Customer <i>Daystar Petroleum Inc</i>	Lease No.	Date <i>9-25-18</i>
Lease <i>Sensen King unit</i>	Well # <i>2-36</i>	
Field Order # <i>17477</i>	Station	Casing
Type Job <i>PTA 2-42</i>	Formation	Legal Description <i>36-125-16W</i>
	Depth	County <i>Ellis</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 5/8</i>	<i>4 1/2 16800</i>							
Depth <i>259</i>	Depth <i>1350</i>	From	To	Pre Pad	Max			5 Min.
Volume <i>16.5</i>	Volume <i>19.1</i>	From	To	Pad	Min			10 Min.
Max Press <i>500</i>	Max Press <i>500</i>	From	To	Frac	Avg			15 Min.
Well Connection <i>2 1/2</i>	Annulus Vol. <i>54.5</i>	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>Sason Graftl</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Fennis Gardiner</i>
Service Units <i>74468</i>	<i>84960</i>	<i>20920</i>
Driver Names <i>Fennis</i>	<i>EDDY</i>	<i>EDDY</i>
	<i>Jose</i>	<i>Jose</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2000</i>					<i>Arrive on location / safety meeting</i>
<i>2015</i>					<i>Rig up equipment</i>
<i>2100</i>		<i>50</i>	<i>20</i>	<i>4.5</i>	<i>Pump H2O Ahead</i>
<i>2108</i>		<i>50</i>	<i>12.7</i>	<i>4</i>	<i>mix 50st 60/40 P02 @ 13.5ppm - 1350'</i>
<i>2115</i>		<i>50</i>	<i>16</i>	<i>4</i>	<i>Pump H2O behind</i>
<i>2144</i>		<i>50</i>	<i>10</i>	<i>4</i>	<i>Pump H2O Ahead</i>
<i>2148</i>		<i>75</i>	<i>25.4</i>	<i>4</i>	<i>mix 100st 60/40 P02 @ 13.8ppm - 700'</i>
<i>2200</i>		<i>50</i>	<i>3.3</i>	<i>3</i>	<i>Pump H2O behind</i>
<i>2218</i>		<i>50</i>	<i>5</i>	<i>4</i>	<i>Pump H2O Ahead</i>
<i>2221</i>		<i>50</i>	<i>12.7</i>	<i>3.5</i>	<i>mix 50st 60/40 P02 @ 13.5ppm - 300'</i>
<i>2225</i>		<i>50</i>	<i>1</i>	<i>3</i>	<i>Pump H2O behind</i>
<i>2240</i>		<i>50</i>	<i>2.5</i>	<i>3</i>	<i>mix 10st 60/40 P02 @ 13.8ppm - 40'</i>
<i>2250</i>		<i>50</i>	<i>7</i>	<i>3</i>	<i>Plug RW with 30st 60/40 P02 @ 13.8</i>
<i>2255</i>		<i>50</i>	<i>3.6</i>	<i>3</i>	<i>Plug MW with 15st 60/40 P02 @ 13.8ppm</i>
<i>2330</i>					<i>Rig down, leave location</i>
					<i>1st Plug - 1350' - Hdc - 210.96' Toc - 1139.04'</i>
					<i>2nd Plug 700' - Hdc - 421.92' Toc - 276.08'</i>
					<i>3rd Plug 300' - Hdc - 201.93' Toc - 98.07'</i>
					<i>4th Plug 40' - Hdc - 40' Toc - surface</i>
					<i>Thank you!! Fennis Gardiner</i>

Customer <i>Daystar Petroleum Inc</i>	Lease No.	Date <i>9-25-18</i>
Lease <i>Sensen King unit</i>	Well # <i>2-36</i>	
Field Order # <i>17477</i>	Station	Casing
Type Job <i>PTA 2-42</i>	Formation	Legal Description <i>36-125-16W</i>
	Depth	County <i>Ellis</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 5/8</i>	<i>4 1/2 16600</i>							
Depth <i>259</i>	Depth <i>1350</i>	From	To	Pre Pad	Max			5 Min.
Volume <i>16.5</i>	Volume <i>19.1</i>	From	To	Pad	Min			10 Min.
Max Press <i>500</i>	Max Press <i>500</i>	From	To	Frac	Avg			15 Min.
Well Connection <i>2 1/2</i>	Annulus Vol. <i>54.5</i>	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative <i>Sason Graftl</i>	Station Manager <i>Justin Westerman</i>	Treater <i>Fennis Gardiner</i>
Service Units <i>74468</i>	<i>84960</i>	<i>20920</i>
Driver Names <i>Fennis</i>	<i>EDDY</i>	<i>EDDY</i>
	<i>Jose</i>	<i>Jose</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>2000</i>					<i>Arrive on location / safety meeting</i>
<i>2015</i>					<i>Rig up equipment</i>
<i>2100</i>		<i>50</i>	<i>20</i>	<i>4.5</i>	<i>Pump H2O Ahead</i>
<i>2108</i>		<i>50</i>	<i>12.7</i>	<i>4</i>	<i>mix 50st 60/40 P02 @ 13.5ppm - 1350'</i>
<i>2115</i>		<i>50</i>	<i>16</i>	<i>4</i>	<i>Pump H2O behind</i>
<i>2144</i>		<i>50</i>	<i>10</i>	<i>4</i>	<i>Pump H2O Ahead</i>
<i>2148</i>		<i>75</i>	<i>25.4</i>	<i>4</i>	<i>mix 100st 60/40 P02 @ 13.5ppm - 700'</i>
<i>2200</i>		<i>50</i>	<i>3.3</i>	<i>3</i>	<i>Pump H2O behind</i>
<i>2218</i>		<i>50</i>	<i>5</i>	<i>4</i>	<i>Pump H2O Ahead</i>
<i>2221</i>		<i>50</i>	<i>12.7</i>	<i>3.5</i>	<i>mix 50st 60/40 P02 @ 13.5ppm - 300'</i>
<i>2225</i>		<i>50</i>	<i>1</i>	<i>3</i>	<i>Pump H2O behind</i>
<i>2240</i>		<i>50</i>	<i>2.5</i>	<i>3</i>	<i>mix 10st 60/40 P02 @ 13.5ppm - 40'</i>
<i>2250</i>		<i>50</i>	<i>7</i>	<i>3</i>	<i>Plug RW with 30st 60/40 P02 @ 13.5ppm</i>
<i>2255</i>		<i>50</i>	<i>3.6</i>	<i>3</i>	<i>Plug MW with 15st 60/40 P02 @ 13.5ppm</i>
<i>2330</i>					<i>Rig down, leave location</i>
					<i>1st Plug - 1350' - Hdc - 210.96' Toc - 1139.04'</i>
					<i>2nd Plug 700' - Hdc - 421.92' Toc - 276.08'</i>
					<i>3rd Plug 300' - Hdc - 201.93' Toc - 98.07'</i>
					<i>4th Plug 40' - Hdc - 40' Toc - surface</i>
					<i>Thank you!! Fennis Gardiner</i>



BASIC
ENERGY SERVICES

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

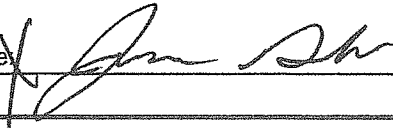
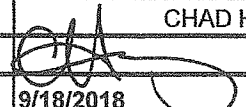
Customer:	DAYSTAR PETROLEUM INC	Cement Pump No.:	38119-19570 5 HRS	Operator TRK No.:	96815
Address:		Ticket #:	1718-15875 L	Bulk TRK No.:	14355-37724
City, State, Zip:		Job Type:	Z-41 SURFACE		
Service District:		Well Type:	OIL		
Well Name and No.:	JENSEN KING UNIT #2-36	Well Location:	36-12-18	County:	ELLIS State: KS

Type of Cmt	Sacks	Additives	Truck Loaded On	
PREMIUM PLUS	175	2%CaCl, 1/4# POLYFLAKE	14355-37724	Front Back
				Front Back
				Front Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	14.8	1.34	6.33	234.5	Man Hours:	33
Tail:					# of Men on Job:	3

Time (am/pm)	Volume (BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
19:30							ON LOC, SAFTEY MTG, R.U.
23:43						1000	TEST LINES
11:48 PM	4.5					120	START MIXING @ 14.8#
12:00 PM		42					SHUT DOWN, DROP PLUG
12:02 AM	4					110	START DISPLACEMENT
0:04	2	3				90	SLOW RATE
0:09		14.5				90-600	PLUG DOWN
12:12 AM							RELEASE PSI, FLOAT HELD
							JOB COMPLETE
							THANK YOU FOR YOUR BUSINESS!!!

Size Hole	12 1/4	Depth	259'		TYPE	
Size & Wt. Csg.	8.625 24#	Depth	253.57'	New / Used	Packer	Depth
tbg.		Depth			Retainer	Depth
Top Plugs		Type			Perfs	CIBP

Customer Signature: 	Basic Representative:	CHAD HINZ
	Basic Signature:	
	Date of Service:	9/18/2018

DAYSTAR
JENSEN KING

