



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1099824
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: _____



1099824

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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OPERATOR

Company: TDI, INC
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-259-3141
 Well Name: MOORE POND # 1
 Location: NW SE NW SW Sec. 8-15s-19w
 Pool: WILDCAT
 State: KANSAS

API: 15-051-26,387-00-00
 Field: UNNAMED
 Country: USA



1310 BISON ROAD
 HAYS, KANSAS 67601
 (785) 628-2593

Scale 1:240 Imperial

Well Name: MOORE POND # 1
 Surface Location: NW SE NW SW Sec. 8-15s-19w
 Bottom Location:
 API: 15-051-26,387-00-00
 License Number: 4787
 Spud Date: 9/26/2012 Time: 6:00 PM
 Region: ELLIS COUNTY
 Drilling Completed: 10/3/2012 Time: 5:48 AM
 Surface Coordinates: 1660' FSL & 980' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1991.00ft
 K.B. Elevation: 2001.00ft
 Logged Interval: 2400.00ft To: 3700.00ft
 Total Depth: 3700.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1660' FSL
 E/W Co-ord: 980' FWL

LOGGED BY

Company: SOLUTIONS CONSULTING
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.
 Rig #: 1
 Rig Type: MUD ROTARY

Rig Type: MUD ROTARY
Spud Date: 9/26/2012
TD Date: 10/3/2012
Rig Release: 10/4/2012

Time: 6:00 PM
Time: 5:48 AM
Time: 3:00 AM

ELEVATIONS

K.B. Elevation: 2001.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 1991.00ft

NOTES

DECISION TO RUN PRODUCTION CASING BASED ON FAVORABLE STRUCTURE AND LOG ANALYSIS OF PROSPECTIVE ZONES OF PRODUCTIVE POTENTIAL.

OPEN HOLE LOGGING BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

DRILL STEM TESTING-TRILOBITE TESTING INC. 1 TEST

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

MOORE POND # 1
1660' FSL & 980' FWL, SW/4
Sec. 8-15s-19w
1991' GL 2001' KB

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1236+765	NOT CALLED
B-Anhydrite	1276+ 725	1280+ 721
Topeka	2978- 977	2974- 973
Heebner Shale	3252-1251	3250-1249
Toronto	3271-1270	3271-1270
LKC	3296-1295	3295-1294
BKC	3540-1539	3548-1547
Conglomerate Sand	3615-1614	3614-1613
Arbuckle	3640-1639	3636-1635
Reagan Sand	NOT CALLED	NOT CALLED
RTD	3700-1699	
LTD		3700-1699


SUMMARY OF DAILY ACTIVITY

9-26-12 RU, Spud, 6:00 PM

9-27-12 369', stop to cement culvert to seal off surface sand, WOC

- 9-28-12 1254', run 8 5/8" surface casing to 1254' w/ 375 sxs SMD, plug down 3:00 PM, WOC 12 hours
- 9-29-12 1395', drilling
- 9-30-12 2425', drilling, displace 2804'-2825'
- 10-01-12 3123', drilling, short trip, DST # 1 3280'-3350' A-D
- 10-02-12 3350', drilling
- 10-03-12 3700', RTD, short trip, logs, lay down drill pipe and run casing
- 10-04-12 3700' finish running casing and cement bottom stage, plug down 3:00AM

DST # 1 TEST SUMMARY

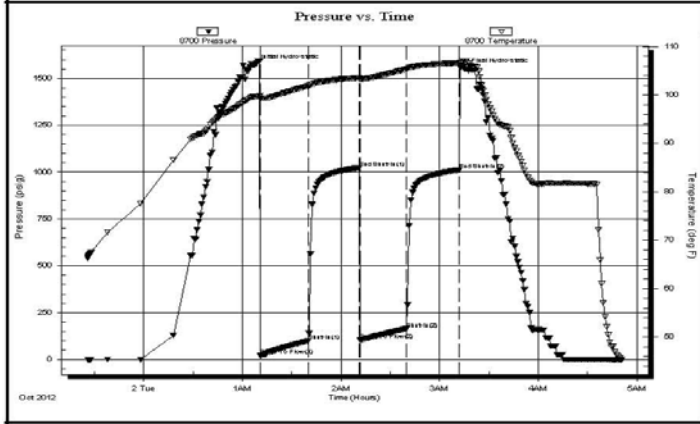
	DRILL STEM TEST REPORT		
	TDI Inc 1310 Bison Rd Hays Ks 67601-9696 ATTN: Tom Denning	8-15s-19w Ellis Moore Pond #1 Job Ticket: 48691 DST#: 1 Test Start: 2012.10.01 @ 23:26:04	

GENERAL INFORMATION:

Formation: LKC B-D	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock ft (KB)	Tester: Ray Schwager
Time Tool Opened: 01:10:59	Unit No: 42
Time Test Ended: 04:51:00	Reference Elevations: 2001.00 ft (KB)
Interval: 3280.00 ft (KB) To 3350.00 ft (KB) (TVD)	1993.00 ft (CF)
Total Depth: 3350.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.85 inches	Hole Condition: Fair

Serial #: 8700	Outside		
Press@RunDepth: 163.99 psig @ 3284.00 ft (KB)	Capacity: 8000.00 psig		
Start Date: 2012.10.01	End Date: 2012.10.02	Last Calib.: 2012.10.02	
Start Time: 23:26:04	End Time: 04:50:58	Time On Btm: 2012.10.02 @ 01:07:29	
		Time Off Btm: 2012.10.02 @ 03:15:29	

TEST COMMENT: 30-IFP-w k to strg in 12min
 30-ISIP-no bl
 30-FFP-w k to strg in 27min
 30-FSP-no bl



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.85	99.62	Initial Hydro-static
4	19.34	99.21	Open To Flow (1)
33	98.98	101.90	Shut-In(1)
64	1023.37	103.52	End Shut-In(1)
64	101.96	103.24	Open To Flow (2)
92	163.99	105.32	Shut-In(2)
124	1010.21	106.57	End Shut-In(2)
128	1546.96	107.09	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	O&G:CVW 5%G5%O35%W55%M	1.68
60.00	MVW /show of oil	0.84

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

120.00	Water	1.68

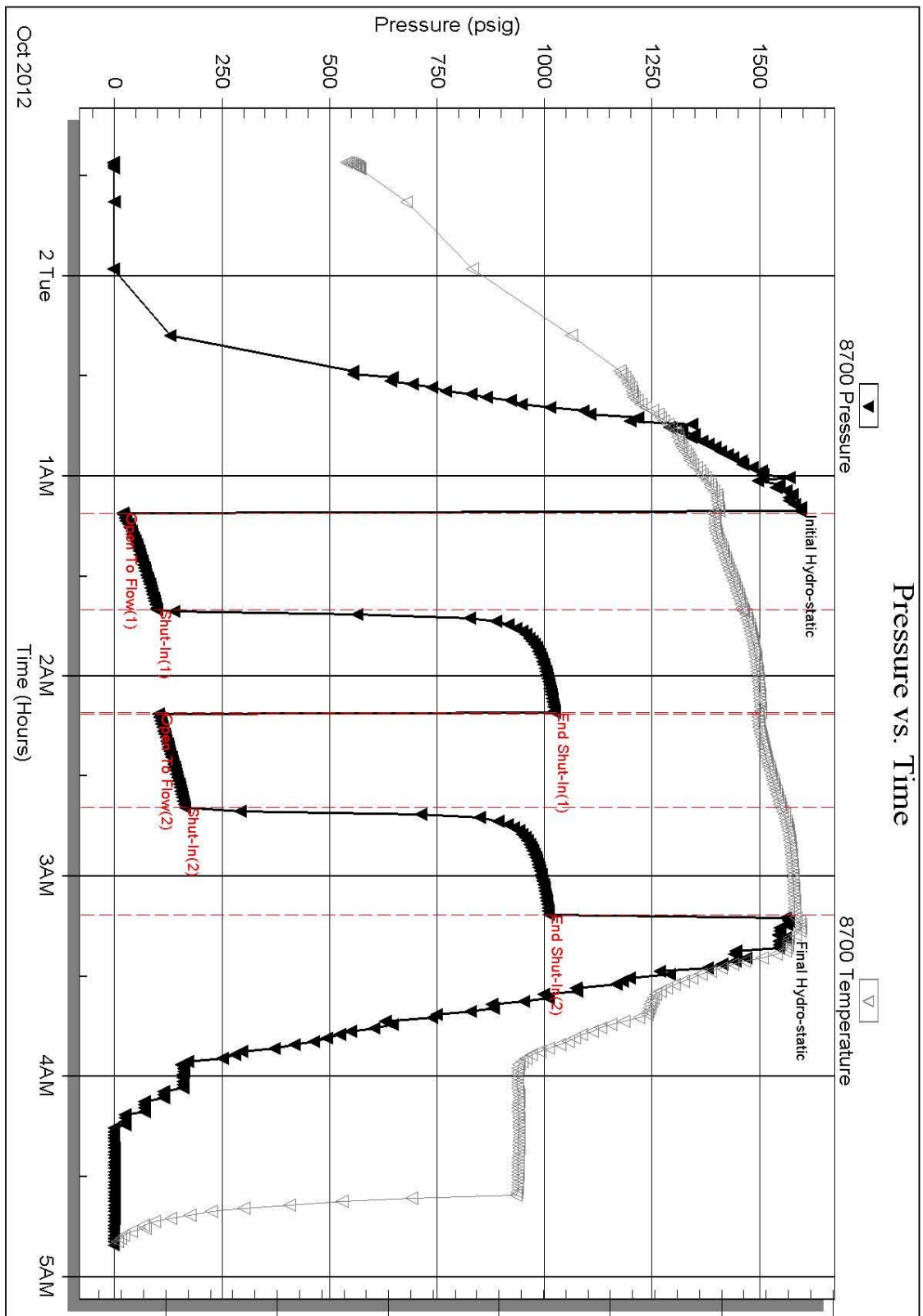
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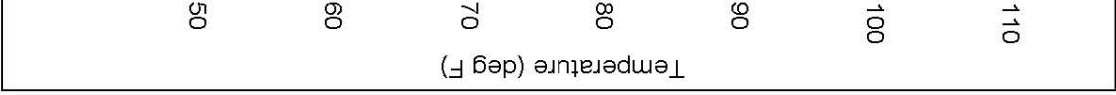
Serial #: 8700

Outside TDI Inc

Moore Pond #1

DST Test Number: 1





ROCK TYPES

Clystgy	Dolprim	shale, grn	shale, red	Lscongl
Congl	Lmst fw<7	shale, gry	Ss	CglSandy
Chtcongl	Lmst fw>7	Carbon Sh	Dol Lime	

ACCESSORIES

MINERAL

- ▲ Chert, dark
- ≡ Nodules
- P Pyrite
- Sandy
- Varicolored chert

FOSSIL

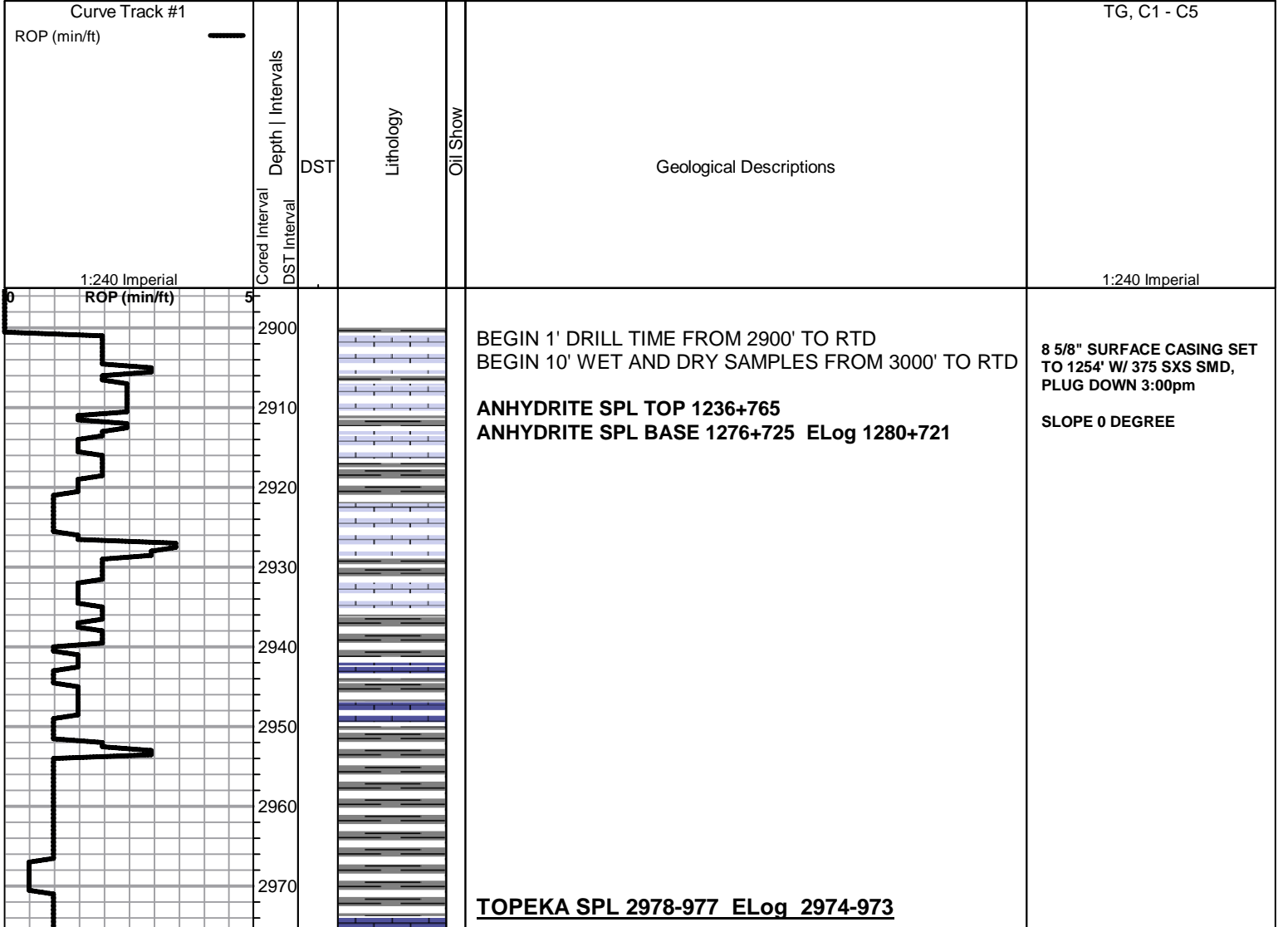
- Oolite
- ⊕ Oomoldic

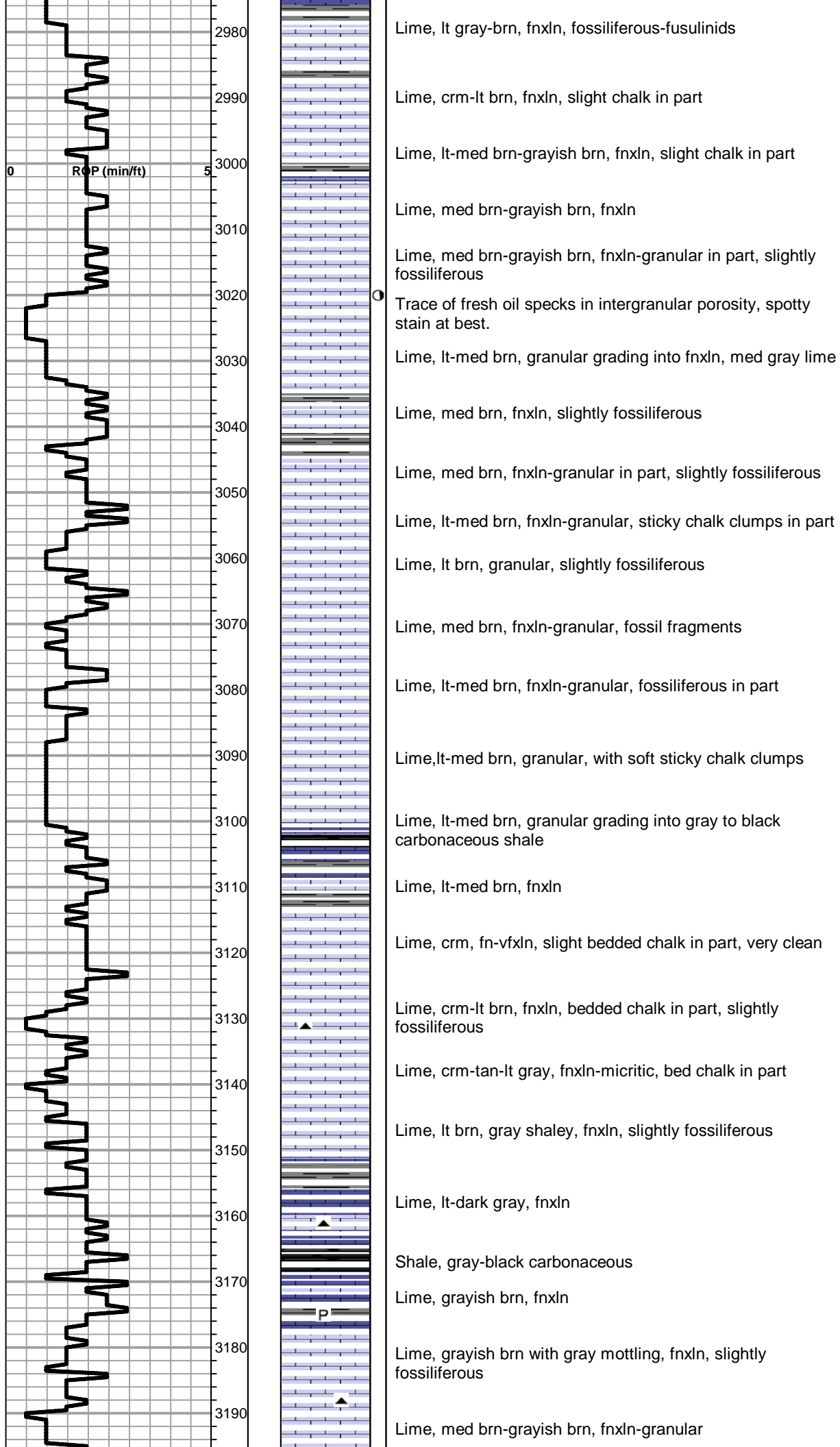
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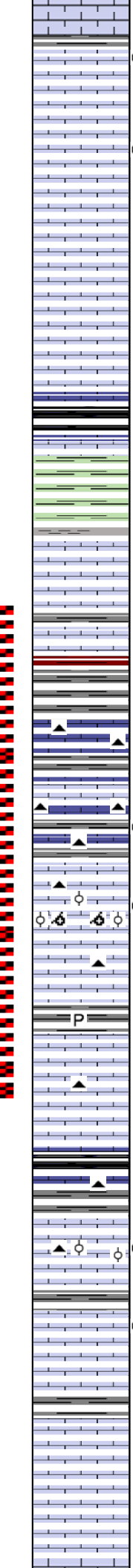
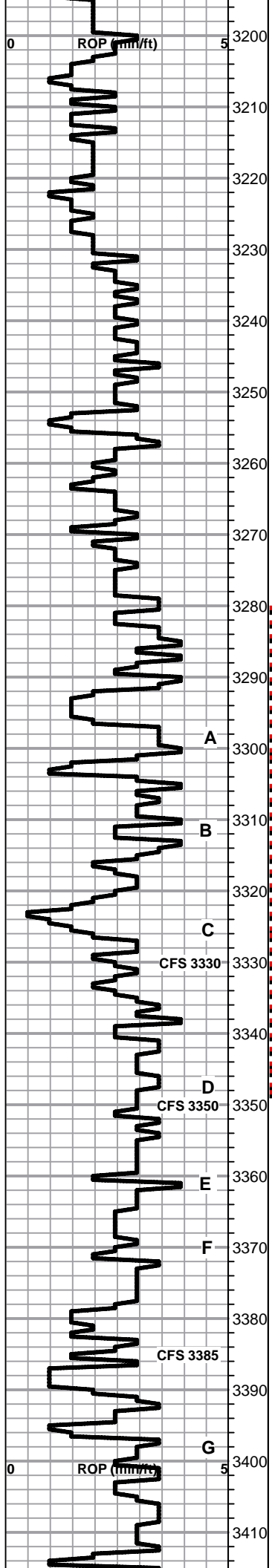
DST

- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





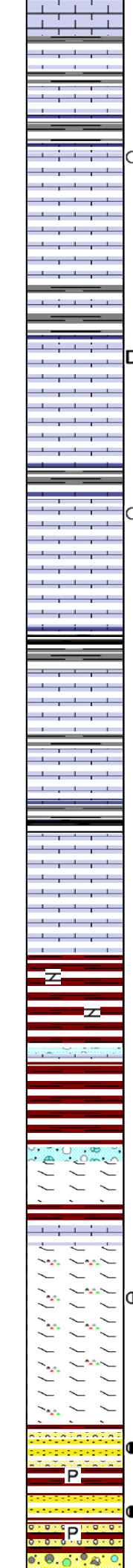
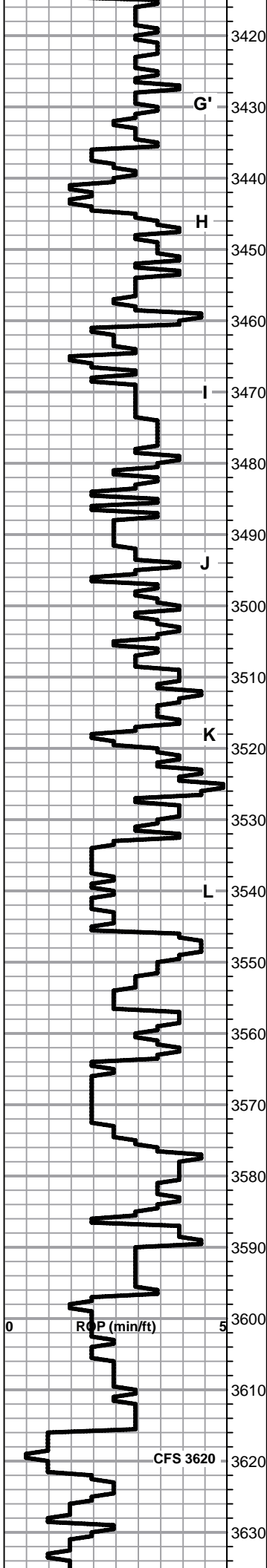


Lime, lt brn-lt grayish brn, fnxln-granular in part, scattered lt staining in part, very lite odor
 Lime, crm, fnxln, bedded chalk in part
 Lime, tan, lt brnsh gray, fnxln, few chips with trace oil, very lt odor, scattered lite staining
 Lime, lt-med brn, fnxln, slight bed chalk in part
 Lime, lt brn, fnxln, bed chalk in part
 Lime, lt brn-lt gray, fnxln
HEEBNER SHALE SPL 3252-1251 ELog 3250-1249
 Shale, black carbonaceous, fissile, blocky
 Lime lt brn, fn-vfxln
 Shale, lime green, soft forming soft mud
TORONTO SPL 3271-1270 ELog 3271-1270
 Lime, wht-crm, fn-vfxln, bed chalk, NS
 Lime, crm, cryptoxln grading into trashy reworked transition zone with red shale grading into gray, soft shale
LKC SPL 3296-1295 ELog 3295-1294
 Lime, lt brn-lt gray, fnxln
 Shale, lt gray, soft
 Lime, lt gray-lt green, vfxln, micro fossils, very light odor with show of lt, gassy oil in pinpoint porosity, poorly developed
 Lime, tan-lt brn, fnlxn grading to oolitic-oolmoldic with fossil fragments, scattered to saturated staining, NFO, lt odor.
 Lime, crm-tan, fnxln, chalk in part
 Lime, crm-tan-lt brn, fnxln, slightly fossilifeorus
 Lime, tan-lt brn, fnxln, slight chalk in part
 Lime, tan-lt gray, fnxln, slight bed chalk in part
 Shale, gray-black carbonaceous, fissile, blocky
 Lime, lt gray, fnxln
 Lime, crm-tan, fnxln, bed chalk, few pieces of oolitic-fossil fragment mix with scattered stain, VLT Odor, NFO
 Lime, crm-tan, fnxln, bed chalk, cemented oolitic in part, NS
 Lime, crm-tan, fnxln w oolitic in part, scattered stain, NFO, No Odor
 Lime, crm, fnxln-granular, bed chalk, NS
 Lime, white-crm, fnxln, bedded chalk
 Lime, crm-tan, fn-vfxln, slight bed chalk
 Lime, crm-tan-lt gray, fn-vfxln, slight bed chalk

DST # 1 3280' TO 3350' SEE HEADER FOR TEST SUMMARY

Slope 1/8 degree

A
 B
 C
 CFS 3330
 D
 CFS 3350
 E
 F
 G
 CFS 3385



Lime, crm-tan-lt gray, fn-vfxln grading into gray shale forming soft mud clumps

Lime, tan-lt gray, fnxln, with gray calcareous shale in part

○ Lime, tan-lt gray, fnxln, chalky white wash, few globules of free oil floating in tray, source rock ?, No Odor, No stain

H Lime, crm, fn-vfxln, bedded chalk

Shale, med gray, soft, blocky

D Lime, crm, fn-vfxln, bed chalk, NS

I Lime, crm, fnxln, bed chalk, few pieces with gilsonite, NFO

Lime, lt brn, fn-vfxln
Shale, lt gray, tan, soft forming soft mud clusters and mud

○ Lime, crm, mostly fnxln, scattered staining on surfaces, NFO, No Odor

J Lime, crm-lt brn, fn-vfxln, bed chalk

Shale, gray, lt green, forming soft mud clumps and mud

Lime, lt brn-lt grayish brn, vfxln, bed chalk

K Lime, lt brn, vfxln, bed chalk

Lime, lt brn, fn-vfxln, hard, bed chalk

L Lime, lt brn-grayish brn, fnxln

BKC SPL 3540-1539 ELog 3548-1547

Z Shale, reddish brn, maroon, few chert nodules in part

Z Lime, lt brn-grayish brn, fnxln, some reworked lime mix

Shale, reddish brn

Lime, reworked top grading into tan-lt brn fnxln

Lime, crm-tan, fnxln with increasing chert content.

● Lime, crm-med brn, dolomitic, fnxln to med crystalline with show of heavy oil in intercrystalline porosity, very light odor

Lime, crm, dolomitic, fnxln becoming less cherty

● Sandstone, poor-fair sorting, white clay cement with scattered shows of FO on break, very lt odor, scattered to saturated staining

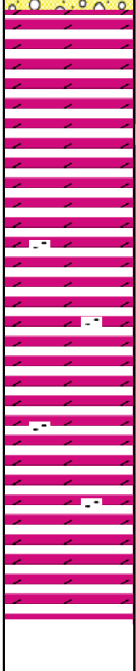
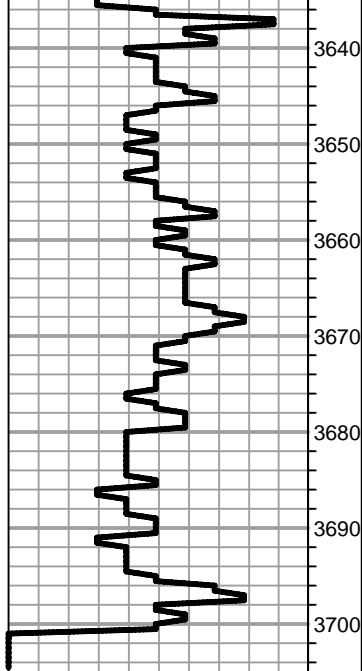
P

● Sandstone, coarser grain, better sorted but thin zone, show free oil on break with scattered to saturated staining

P

ARBUCKLE SPL 3640-1630 ELog 3636-1635

ARBUCKLE SPL 3640-1639 ELog 3636-1633



Dolomite, ivory, fnxln, NS

Dolomite, ivory, fnxln-granular, NS

Dolomite, ivory-crm, fnxln-granular, scattered gilsonite deposits in part, NFO, No Odor

Dolomite, ivory-crm, fnxln with increasing quartz grain inclusions

Dolomite, ivory-crm, fnxln with clusters of hard, fused, rosy tinted sandstone

Dolomite, ivory-crm, fnxln-granular, with mix of well sorted sandstone with rosy tint

Dolomite, ivory-crm, fnxln-granular, scattered glauconitic specks, sandy.

Dolomite, ivory-crm, fnxln, sandy

SET 5 1/2" CASING TO 3697'
W/ 150 SXS EA2 PLUG DOWN
3:00 AM 10-04-12

Slope 1 degree

JOB LOG

SWIFT Services, Inc.

DATE 9-28-12 PAGE NO. 1

CUSTOMER TDI WELL NO. #1 LEASE Moore Pond JOB TYPE Cement Surface TICKET NO. 22837

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 1254	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	0900						237A 8 5/8		On loc - float Equip (Rig Start Trip) Start 23#/ft 8 5/8" casing to 1252' Baffle @ 1270' ± Cent 1-3-15
	12:30								Fin run casing Rig out casing - chain down Fin cir 30 min
		5	12				200		Pump 500 gal Newflash
		5	20				200		Pump 200 BBL KCL Flush
		5	47				300		Start 100 SRS SUD @ 11.7 #
		5	36				200		Start 100 SRS SUD @ 12.7 #
		5	31				300		Start 100 SRS SUD @ 13.5 #
		4	20				300		Start 75 SRS SUD @ 14.5 #
							1000		Fin cent
		5							Release Plug
		5 1/2					200 400 350 600		Start Disp 1
	1500								Plug Down - close in @ Head Release AC & Washup Rackup
									<p>Account: Dan, Brian & Jim</p> <p>(100 SRS SUD @ 11.2 #/gal circulated to Pit)</p> <p>RJ</p>

JOB LOG

SWIFT Services, Inc.

DATE 10-3-12 PAGE NO. 1

CUSTOMER T.D.I. WELL NO. #1 LEASE Moore Pond JOB TYPE Cement Longstring TICKET NO. 22839

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		3700-TD DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2200					14#	5 1/2"	On location - FE - R/S L.D.D.
	2330							Start 5 1/2" 14#/ft casing to 3697'
								Insert Float Shoe w/RTU up
								LD - Baffle - SS - 42' @ 3655' = 89.2 881
								Cut - 1-3-5-7-8-10-12
								Leak Baskets Fin end #2 & #13
								Drop Ball up Ball - 5' stand
0100	0110							Fin run casing - Top Bottom
								start cie / Rotate
								Fin cie
			7					Plug RT - 30 SKS cut
			5					MH 20 SKS cut
		5	12					200 Pump 500 SKS Hand Pump
		6	20					200 Pump 900 SKS KCL Pump
		4 1/2						Start 125 SKS EA-2 cut
		4	35					Use Fin cut
								Washout pump (line)
								Drop L.D. Plug
		9						320 Start Displ
		8	30					275 SKS rate
		8	105					700 Casing 1 PP - slow rate
		6	68					700 to 6 BPM
0245								750 Plug Down - Hold - Released Hold
								1500 Washup & Packup
0330								Job Complete

Michael R. Brown & Jeremy

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

November 05, 2012

Tom Denning
TDI, Inc.
1310 BISON RD
HAYS, KS 67601-9696

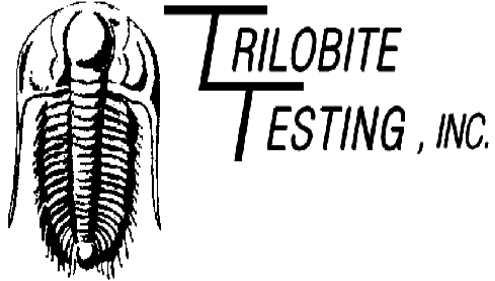
Re: ACO1
API 15-051-26387-00-00
Moore Pond 1
SW/4 Sec.08-15S-19W
Ellis County, Kansas

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,
Tom Denning



DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601-9696

ATTN: Tom Denning

Moore Pond #1

8-15s-19w Ellis,KS

Start Date: 2012.10.01 @ 23:26:04

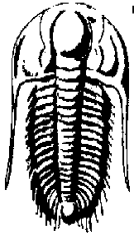
End Date: 2012.10.02 @ 04:51:00

Job Ticket #: 48691 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.10.04 @ 09:52:47

TDI Inc
8-15s-19w Ellis,KS
Moore Pond #1
DST # 1
LKC B-D
2012.10.01



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Moore Pond #1
Job Ticket: 48691 **DST#: 1**
Test Start: 2012.10.01 @ 23:26:04

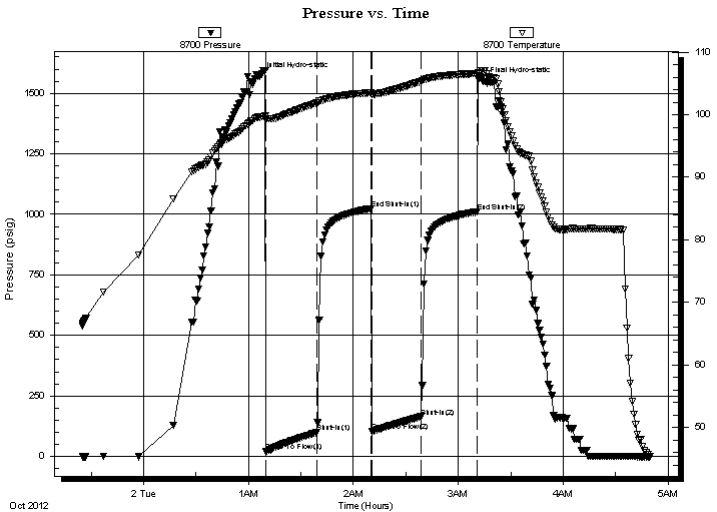
GENERAL INFORMATION:

Formation: **LKC B-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:10:59
Time Test Ended: 04:51:00
Interval: **3280.00 ft (KB) To 3350.00 ft (KB) (TVD)**
Total Depth: 3350.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2001.00 ft (KB)
1993.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8700 Outside
Press @ Run Depth: 163.99 psig @ 3284.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.10.01 End Date: 2012.10.02 Last Calib.: 2012.10.02
Start Time: 23:25:04 End Time: 04:49:58 Time On Btm: 2012.10.02 @ 01:06:29
Time Off Btm: 2012.10.02 @ 03:14:29

TEST COMMENT: 30-IFP-w k to strg in 12 min
30-ISIP-no bl
30-FFP-w k to strg in 27 min
30-FSIP-no bl

PRESSURE SUMMARY



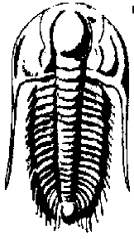
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1567.85	99.62	Initial Hydro-static
4	19.34	99.21	Open To Flow (1)
33	98.98	101.90	Shut-In(1)
64	1023.37	103.52	End Shut-In(1)
64	101.96	103.24	Open To Flow (2)
92	163.99	105.32	Shut-In(2)
124	1010.21	106.57	End Shut-In(2)
128	1546.96	107.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	O&GCWM 5%G5%O35%W55%M	1.68
60.00	MW w/show of oil	0.84
120.00	Water	1.68

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis, KS
Moore Pond #1
Job Ticket: 48691 **DST#: 1**
Test Start: 2012.10.01 @ 23:26:04

Tool Information

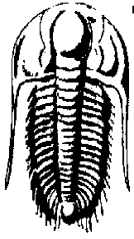
Drill Pipe:	Length: 3269.00 ft	Diameter: 3.80 inches	Volume: 45.86 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 45.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	30000.00 lb
Depth to Top Packer:	3280.00 ft			Final	34000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	91.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3260.00	
Shut In Tool	5.00			3265.00	
Hydraulic tool	5.00			3270.00	
Packer	5.00			3275.00	21.00 Bottom Of Top Packer
Packer	5.00			3280.00	
Stubb	1.00			3281.00	
Perforations	3.00			3284.00	
Recorder	0.00	8369	Inside	3284.00	
Recorder	0.00	8700	Outside	3284.00	
Blank Spacing	63.00			3347.00	
Bullnose	3.00			3350.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc
1310 Bison Rd
Hays KS 67601-9696
ATTN: Tom Denning

8-15s-19w Ellis,KS
Moore Pond #1
Job Ticket: 48691 **DST#: 1**
Test Start: 2012.10.01 @ 23:26:04

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:	97000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

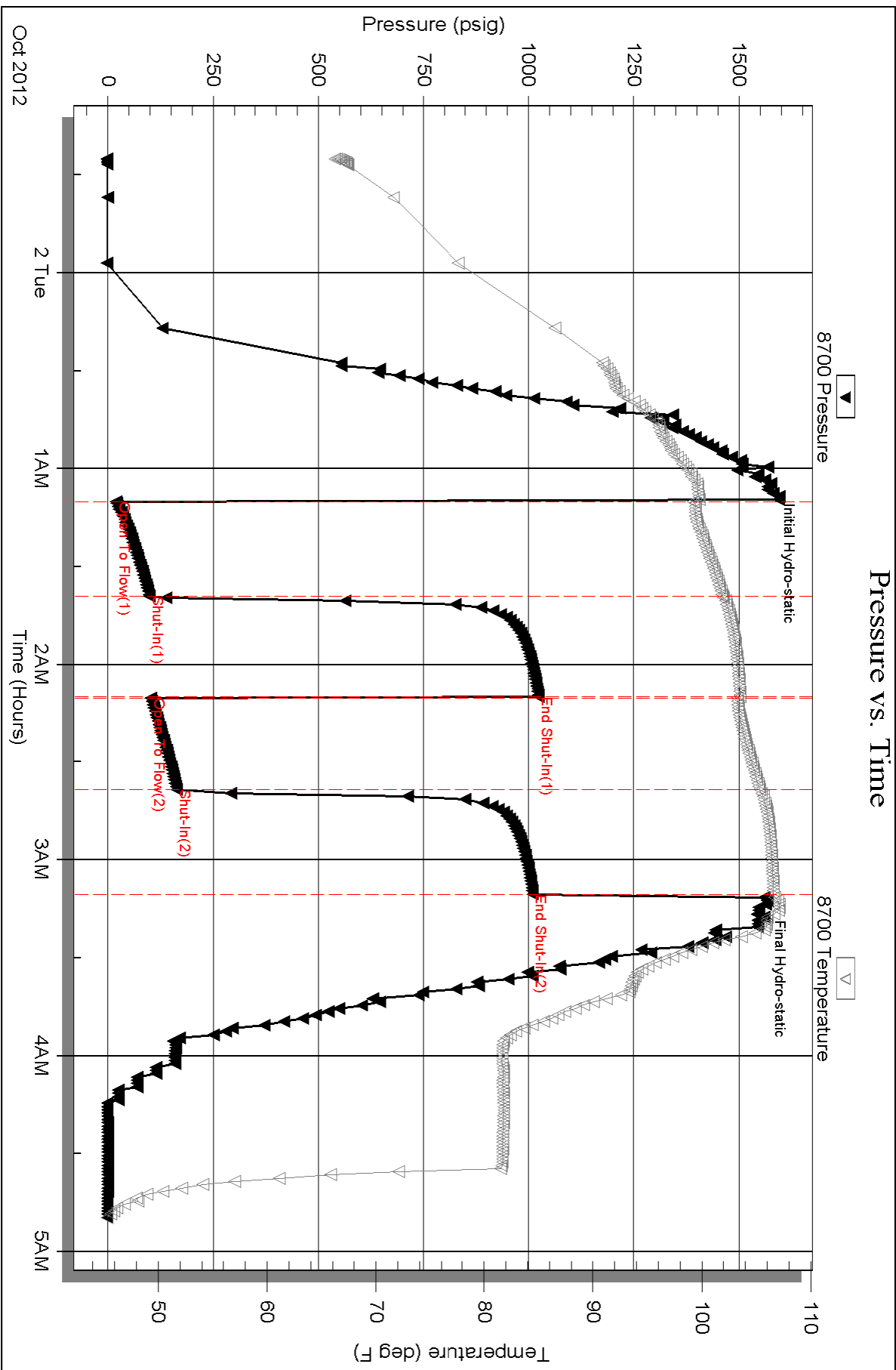
Length ft	Description	Volume bbl
120.00	O&GCWM 5%G5%O35%W55%M	1.683
60.00	MW w/show of oil	0.842
120.00	Water	1.683

Total Length: 300.00 ft Total Volume: 4.208 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW .09 @ 60F



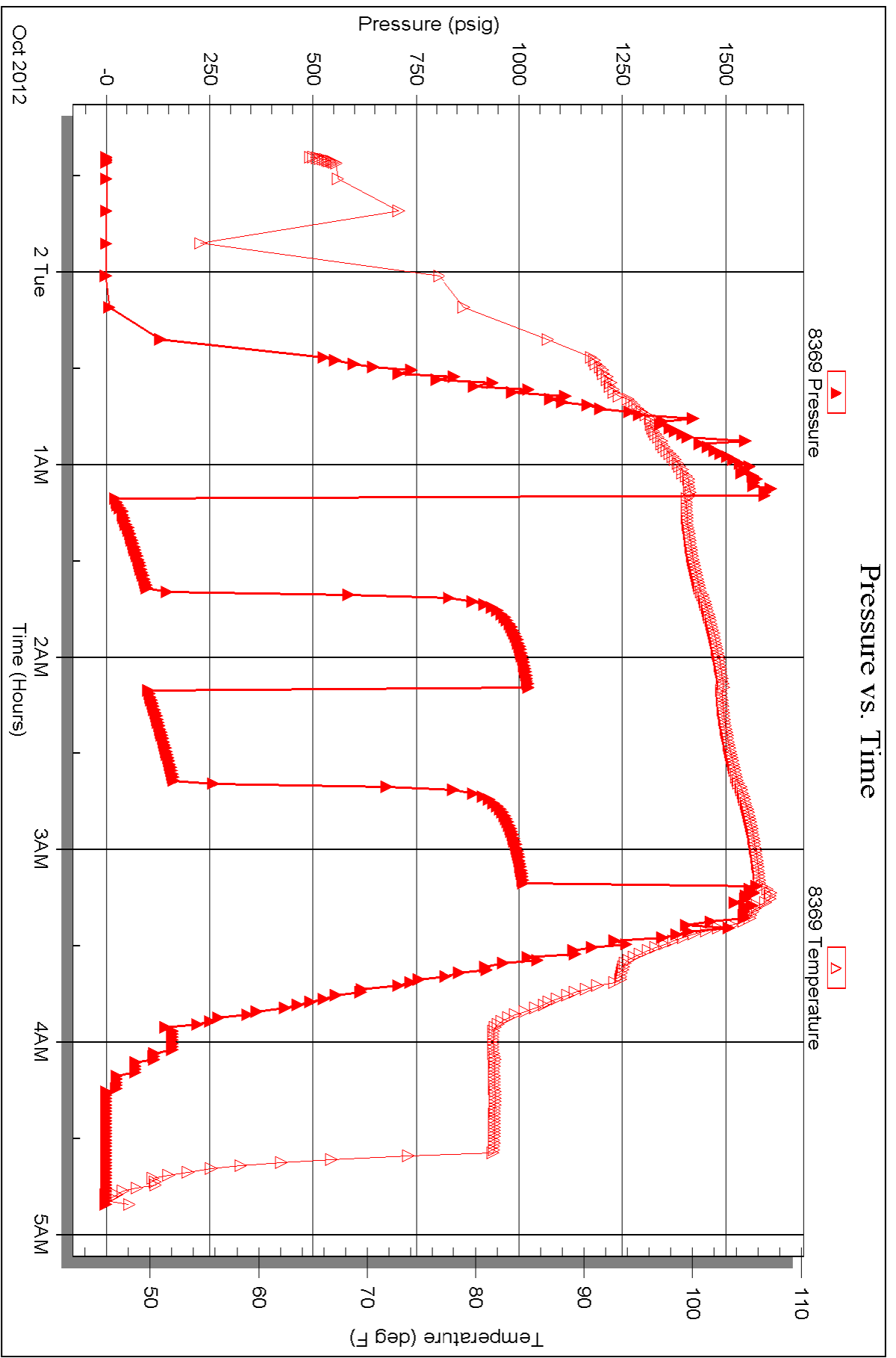
Serial #: 8369

Inside

TDI Inc

Moore Pond #1

DST Test Number: 1





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48691

4/10

Well Name & No. Moore Pond #1 Test No. 1 Date 10-1-12
 Company TOT, Inc Elevation 2001 KB 1993 GL
 Address 1310 Bison Rd Hays, Ks 67601-9696
 Co. Rep / Geo. Herb Dienes Rig Southwind rig 1
 Location: Sec. 8 Twp. 15^s Rge. 19^w Co. Ellis State Ks

Interval Tested 3280-3350 Zone Tested LKC B-0
 Anchor Length 70 Drill Pipe Run 3269 Mud Wt. 9.2
 Top Packer Depth 3275 Drill Collars Run - Vis 48
 Bottom Packer Depth 3280 Wt. Pipe Run - WL 7.8
 Total Depth 3350 Chlorides 3800 ppm System LCM #1
 Blow Description IFP - WEAK TO STRONG IW 12min
ISTP - NO BLOW
FFP - WEAK TO STRONG IW 27min
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>120</u>	<u>0-6 C WM</u>	<u>5</u>	<u>5</u>	<u>35</u>	<u>55</u>
<u>60</u>	<u>MW w/showfo. l</u>			<u>90</u>	<u>10</u>
<u>120</u>	<u>WATER</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 300 BHT 106 Gravity - API RW .09 @ 60 °F Chlorides 97000 ppm

(A) Initial Hydrostatic 1567 Test 1150 T-On Location 2105
 (B) First Initial Flow 19 Jars - T-Started 2328
 (C) First Final Flow 98 Safety Joint - T-Open 0115
 (D) Initial Shut-In 1023 Circ Sub - T-Pulled 0315
 (E) Second Initial Flow 101 Hourly Standby - T-Out 0451
 (F) Second Final Flow 163 Mileage 38RT x2 117.80 Comments loaded tools 9/23 16:00
 (G) Final Shut-In 1010 Sampler -
 (H) Final Hydrostatic 1546 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 30 Extra Recorder - Sub Total 800
 Initial Shut-In 30 Day Standby 1d 12hrs Total 2067.80
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 30 Sub Total 1267.80

Approved By _____

Our Representative Ray Schwager Thank you

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