

KANSAS CORPORATION COMMISSION **1098241**
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4787
 Name: TDI, Inc.
 Address 1: 1310 BISON RD
 Address 2: _____
 City: HAYS State: KS Zip: 67601 + 9696
 Contact Person: Tom Denning
 Phone: (785) 628-2593
 CONTRACTOR: License # 33350
 Name: Southwind Drilling, Inc.
 Wellsite Geologist: Herb Deines
 Purchaser: Coffeyville Resources

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>8/23/2012</u>	<u>8/29/2012</u>	<u>10/11/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26345-00-00
 Spot Description: _____
NE NE SW SE Sec. 7 Twp. 15 S. R. 19 East West
1250 Feet from North / South Line of Section
1330 Feet from East / West Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: Ellis
 Lease Name: Orville Well #: 1
 Field Name: Wildcat
 Producing Formation: Lansing / Kansas City
 Elevation: Ground: 2024 Kelly Bushing: 2034
 Total Depth: 3707 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at: 1282 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: 86000 ppm Fluid volume: 800 bbls
 Dewatering method used: Evaporated
 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

Letter of Confidentiality Received
 Date: 01/11/2013
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
 ALT I II III Approved by: NAOMI JAMES Date: 01/14/2013

1098241

Operator Name: TDI, Inc. Lease Name: Orville Well #: 1
 Sec. 7 Twp. 15 S. R. 19 East West County: Ellis

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <small>Dual Induction Log Dual Compensated Porosity Log Microresistivity Log</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	1282	SMD	375	1/4# flo-seal
Production	7.875	5.5	14	3704	EA-2	125	

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	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3354'-3357'	250 gals. 15%	
4	3370'-3373'	1250 gals. 15%	
4	3484'-3486'	250 gals. 15%	
4	3560'-3564'		

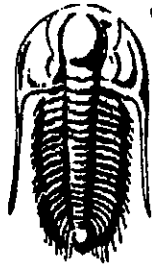
TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>3665'</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>1/3/2013</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>40</u>	Gas Mcf	Water Bbls. <u>10</u>	Gas-Oil Ratio <u>36</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Lansing / Kansas City</u>
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Form	ACO1 - Well Completion
Operator	TDI, Inc.
Well Name	Orville 1
Doc ID	1098241

Tops

Name	Top	Datum
Anhydrite	1274'	+760'
Topeka	3008'	-974'
Heebner	3281'	-1247'
Lansing/Kansas City	3327'	-1293'
Base Kansas City	3579'	-1545'
Conglomerate	3660'	-1626'
Arbuckle	3678'	-1644'
Reagan Sand	3689'	-1655'



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.27 @ 21:31:15

End Date: 2012.08.28 @ 02:45:45

Job Ticket #: 49490 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.07 @ 16:35:01

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 1 Topoka-Oread 2012.08.27



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

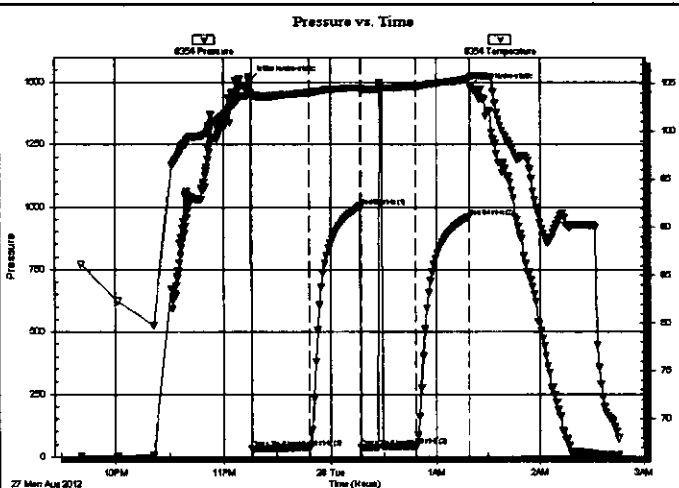
7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

GENERAL INFORMATION:

Formation: **Topeka-Oread**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 23:15:45
Time Test Ended: 02:45:45
Interval: **3188.00 ft (KB) To 3238.00 ft (KB) (TVD)**
Total Depth: **3238.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Reference Elevations: **2034.00 ft (KB)**
2027.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8354 **Inside**
Press@RunDepth: **42.75 psig @ 3227.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.08.27** End Date: **2012.08.28** Last Calib.: **2012.08.28**
Start Time: **21:41:15** End Time: **02:45:45** Time On Btm: **2012.08.27 @ 23:15:25**
Time Off Btm: **2012.08.28 @ 01:19:45**

TEST COMMENT: IF-Weak 1/2 inch blow throughout.
ISI-No Return.
FF-No Blow . Flushed Tool. Weak surface blow . Died @ 11 minutes.
FSI-No Return.



PRESSURE SUMMARY

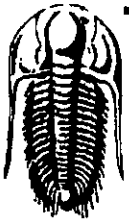
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.71	104.03	Initial Hydro-static
1	32.67	103.73	Open To Flow (1)
33	36.68	104.02	Shut-In(1)
62	1004.15	104.58	End Shut-In(1)
62	36.75	104.21	Open To Flow (2)
93	42.75	104.69	Shut-In(2)
124	961.34	105.51	End Shut-In(2)
125	1480.05	105.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	100%Mud	0.56

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

7-15s-19w Ellis, KS

Orville #1

Job Ticket: 49490

DST#: 1

ATTN: Herb Deines

Test Start: 2012.08.27 @ 21:31:15

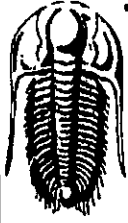
Tool Information

Drill Pipe:	Length: 3178.00 ft	Diameter: 3.80 inches	Volume: 44.58 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 15000.00 lb
			<u>Total Volume: 44.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3188.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3169.00	
Shut In Tool	5.00			3174.00	
Hydraulic tool	5.00			3179.00	
Packer	5.00			3184.00	20.00 Bottom Of Top Packer
Packer	4.00			3188.00	
Stubb	1.00			3189.00	
Perforations	5.00			3194.00	
Change Over Sub	1.00			3195.00	
Drill Pipe	31.00			3226.00	
Change Over Sub	1.00			3227.00	
Recorder	0.00	8354	Inside	3227.00	
Recorder	0.00	8520	Outside	3227.00	
Perforations	8.00			3235.00	
Bullnose	3.00			3238.00	50.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49490 **DST#: 1**
Test Start: 2012.08.27 @ 21:31:15

Mud and Cushion Information

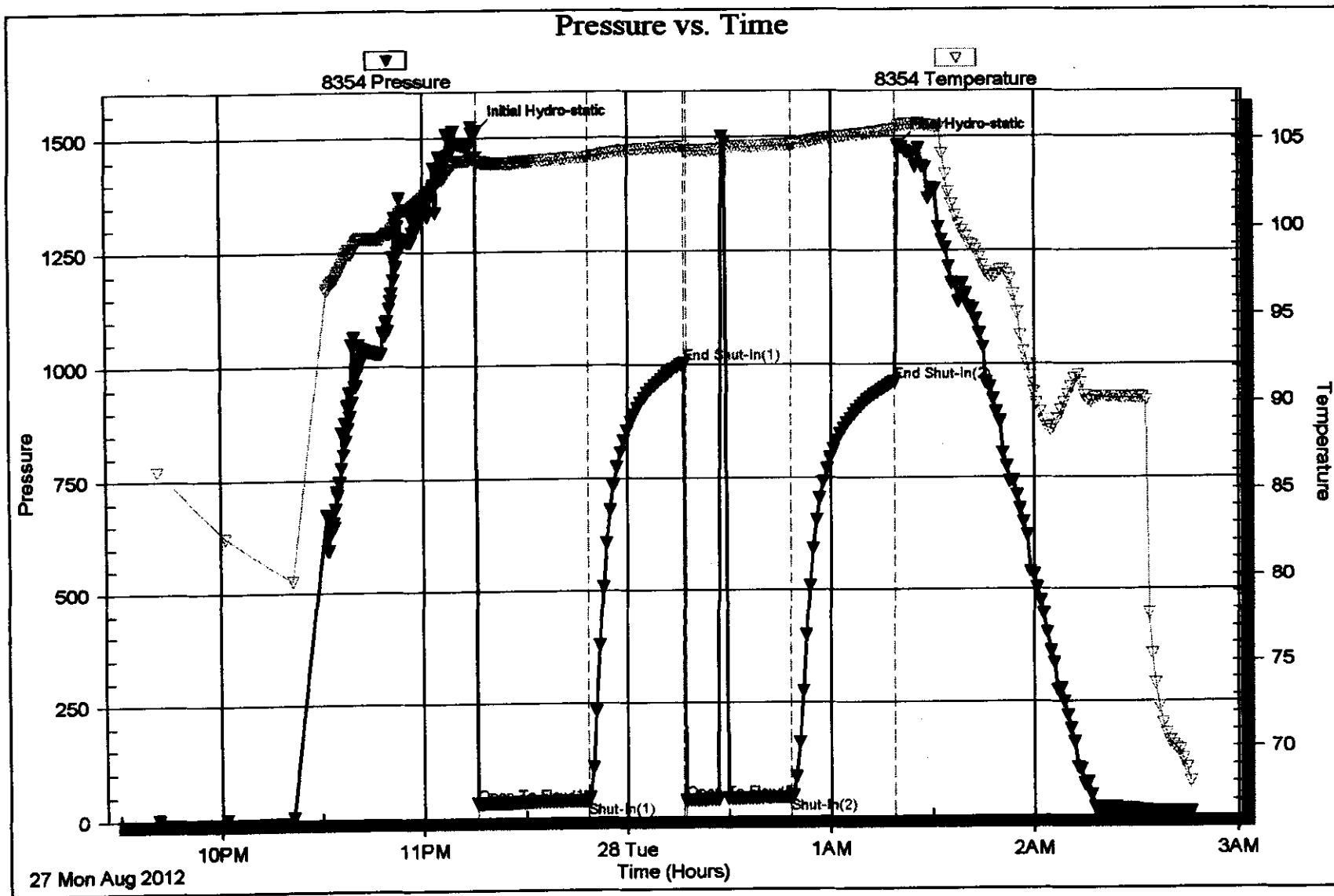
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: inches			

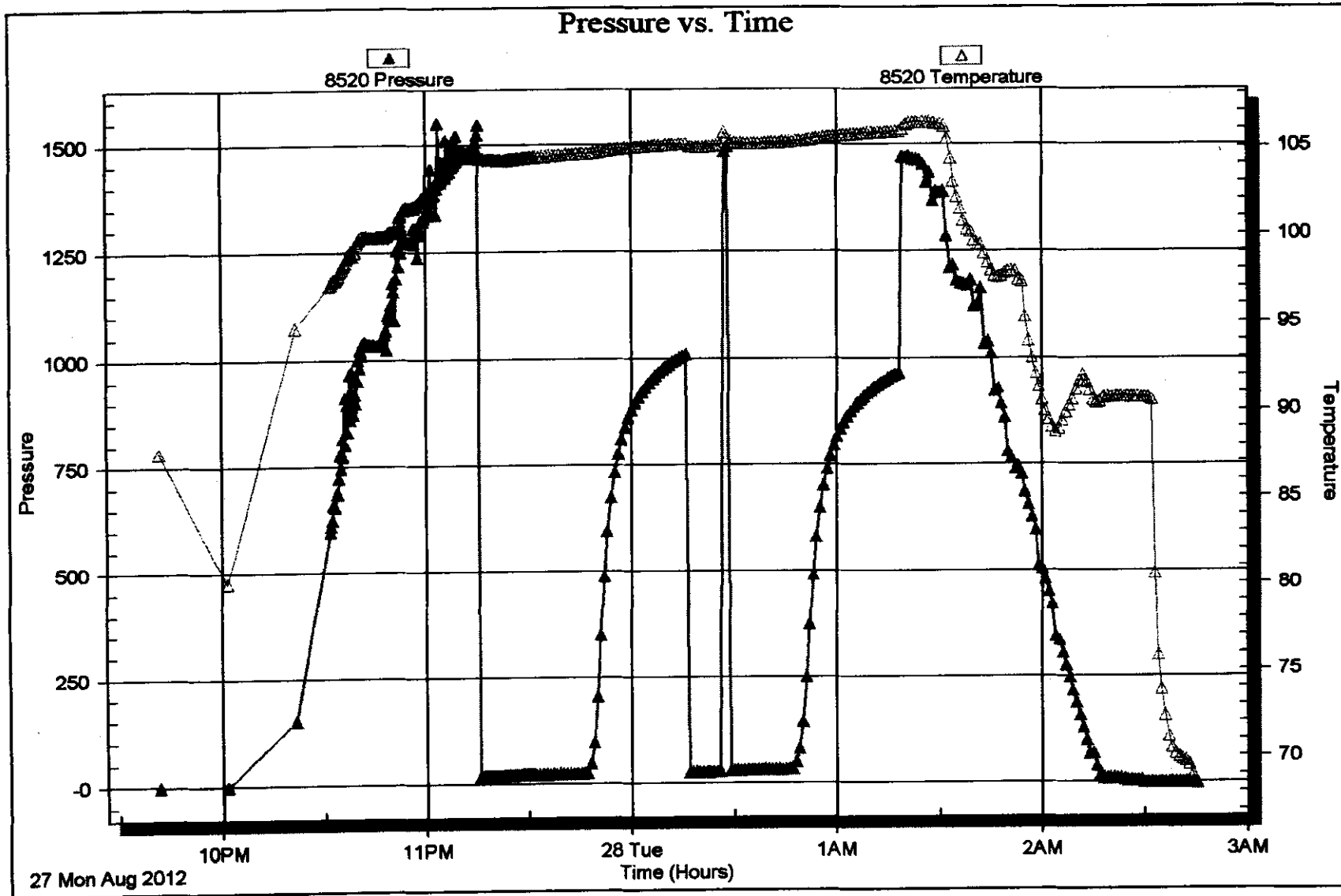
Recovery Information

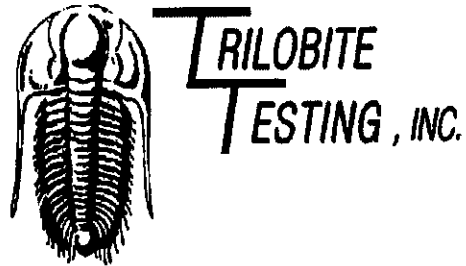
Recovery Table

Length ft	Description	Volume bbl
40.00	100%Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.28 @ 12:48:30

End Date: 2012.08.28 @ 18:13:30

Job Ticket #: 49491 DST #: 2

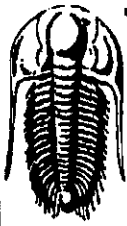
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.07 @ 16:34:04

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 2 LKC "A-C" 2012.08.28



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Daines

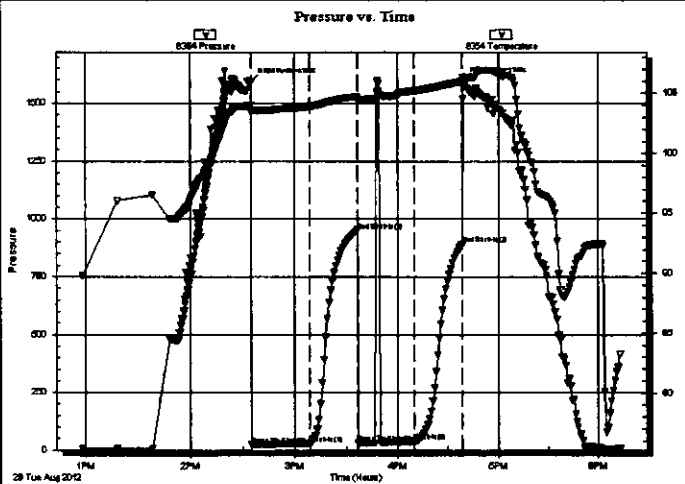
7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

GENERAL INFORMATION:

Formation: **LKC "A-C"**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: 14:35:10
Time Test Ended: 18:13:30
Interval: **3319.00 ft (KB) To 3370.00 ft (KB) (TVD)**
Total Depth: **3370.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: **Conventional Bottom Hole (Initial)**
Tester: **Dustin Rash**
Unit No: **38**
Reference Elevations: **2034.00 ft (KB)**
2027.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8354 **Inside**
Press@RunDepth: **37.82 psig @ 3358.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.08.28** End Date: **2012.08.28** Last Calib.: **2012.08.28**
Start Time: **12:58:30** End Time: **18:13:30** Time On Btm: **2012.08.28 @ 14:34:50**
Time Off Btm: **2012.08.28 @ 16:39:30**

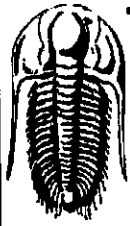
TEST COMMENT: IF-Weak surface blow . Surging @ 11 minutes.
IS-No Return.
FF-No Blow . Flushed Tool. Surface Blow . Died @ 9 minutes.
FSI-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1593.71	103.97	Initial Hydro-static
1	22.04	103.64	Open To Flow (1)
35	29.65	103.95	Shut-In(1)
62	950.08	104.70	End Shut-In(1)
62	30.59	104.32	Open To Flow (2)
96	37.82	105.21	Shut-In(2)
124	890.14	106.02	End Shut-In(2)
125	1597.40	106.28	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	100%Mud	0.49

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
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

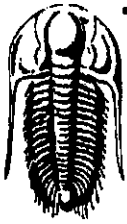
Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 46.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	3319.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3300.00	
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Packer	5.00			3315.00	20.00 Bottom Of Top Packer
Packer	4.00			3319.00	
Stubb	1.00			3320.00	
Perforations	5.00			3325.00	
Change Over Sub	1.00			3326.00	
Drill Pipe	31.00			3357.00	
Change Over Sub	1.00			3358.00	
Recorder	0.00	8354	inside	3358.00	
Recorder	0.00	8520	Outside	3358.00	
Perforations	9.00			3367.00	
Bullnose	3.00			3370.00	51.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49491 **DST#: 2**
Test Start: 2012.08.28 @ 12:48:30

Mud and Cushion Information

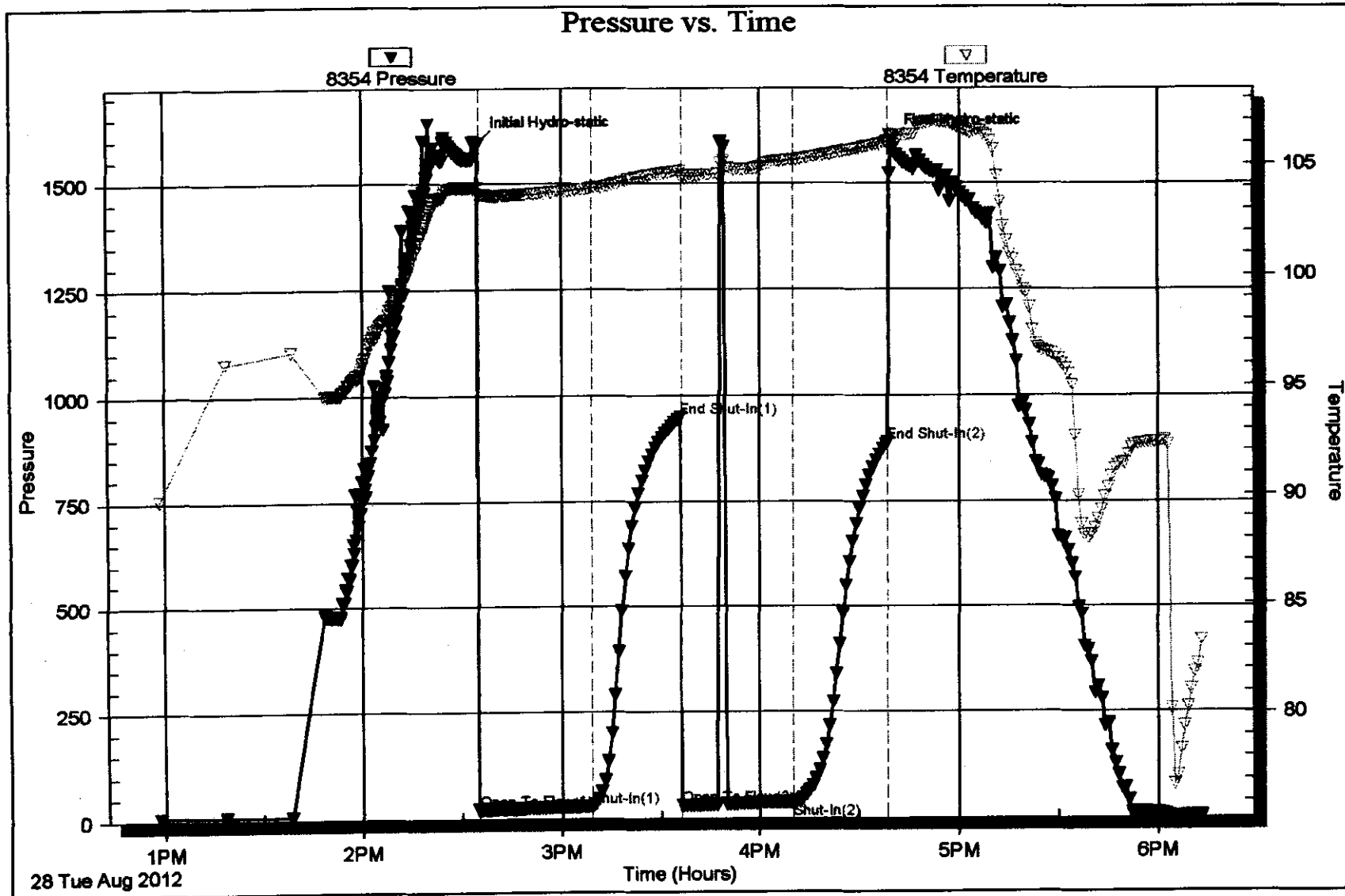
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	100%Mud	0.491

Total Length: 35.00 ft Total Volume: 0.491 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

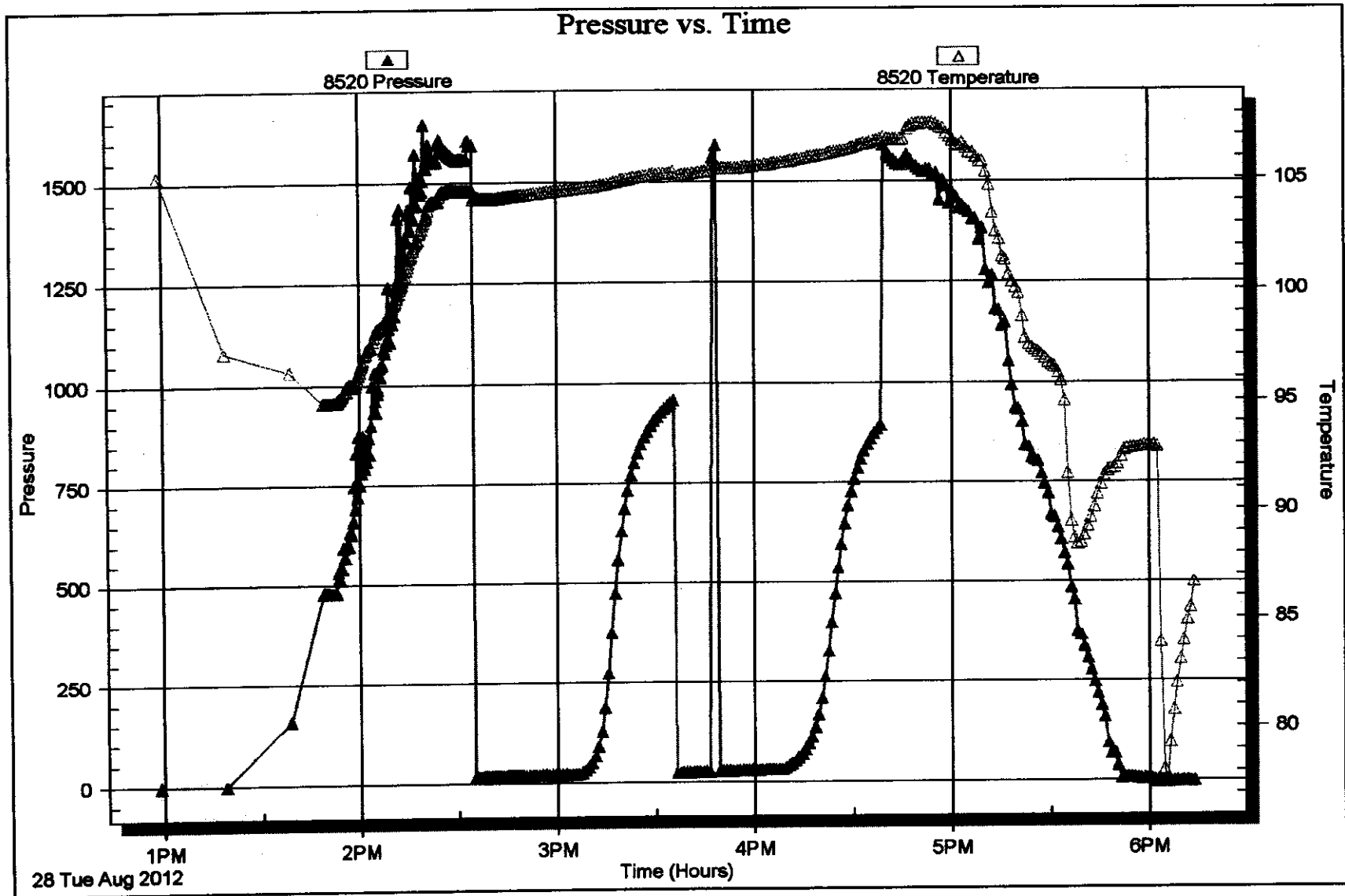


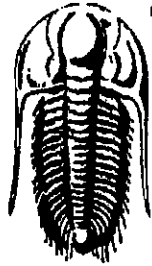
Serial #: 8520

Outside TD, Inc.

Orville #1

DST Test Number: 2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Rd.
Hays, KS 67601

ATTN: Herb Deines

Orville #1

7-15s-19w Ellis,KS

Start Date: 2012.08.30 @ 01:45:15

End Date: 2012.08.30 @ 07:23:15

Job Ticket #: 49492 DST #: 3

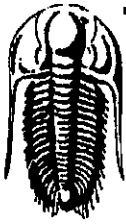
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.09.07 @ 16:33:21

TDI, Inc. 7-15s-19w Ellis,KS Orville #1 DST # 3 LKC "D" 2012.08.30



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

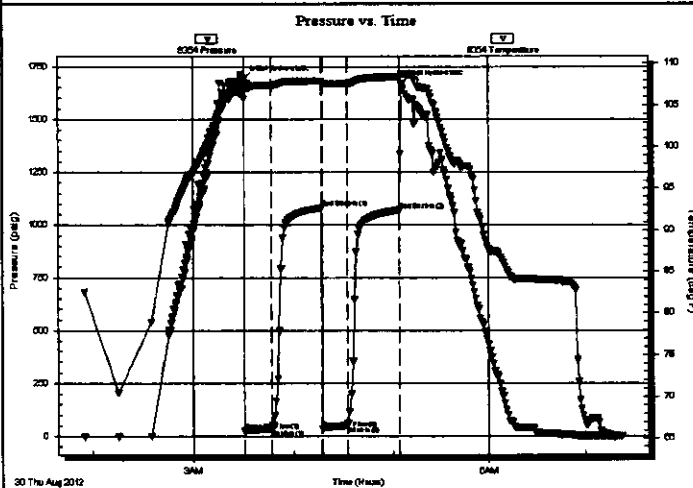
7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 03:30:45
Time Test Ended: 07:23:15
Interval: **3362.00 ft (KB) To 3382.00 ft (KB) (TVD)**
Total Depth: **3707.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: **2034.00 ft (KB)**
2027.00 ft (CF)
KB to GR/CF: **7.00 ft**

Serial #: 8354 **inside**
Press@RunDepth: **49.92 psig @ 3363.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2012.08.30** End Date: **2012.08.30** Last Calib.: **2012.08.30**
Start Time: **01:55:15** End Time: **07:23:15** Time On Btm: **2012.08.30 @ 03:30:35**
Time Off Btm: **2012.08.30 @ 05:05:45**

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes.
IS-**No Return.**
FF-Strong blow . BOB in 15 seconds.
FS-**No Return.**



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.10	106.80	Initial Hydro-static
1	27.31	105.80	Open To Flow (1)
17	33.93	107.37	Shut-In(1)
47	1080.19	107.88	End Shut-In(1)
48	38.05	107.57	Open To Flow (2)
62	49.92	107.56	Shut-In(2)
94	1070.06	108.37	End Shut-In(2)
96	1666.55	108.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	40%Oil/60%Mud	0.80
40.00	40%Gas/60%Oil	0.56
0.00	1389' G.I.P.	0.00

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
ATTN: Herb Deines

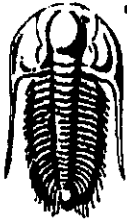
7-15s-19w Ellis, KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Tool Information

Drill Pipe:	Length: 3362.00 ft	Diameter: 3.80 inches	Volume: 47.16 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 47.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3362.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	350.00 ft			
Tool Length:	370.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3343.00	
Shut In Tool	5.00			3348.00	
Hydraulic tool	5.00			3353.00	
Packer	5.00			3358.00	20.00 Bottom Of Top Packer
Packer	4.00			3362.00	
Stubb	1.00			3363.00	
Recorder	0.00	8354	Inside	3363.00	
Recorder	0.00	8520	Outside	3363.00	
Perforations	19.00			3382.00	
Blank Off Sub	1.00			3383.00	350.00 Tool Interval
Packer	4.00			3387.00	
Stubb	1.00			3388.00	
Perforations	4.00			3392.00	
Change Over Sub	1.00			3393.00	
Recorder	0.00	8653	Below	3393.00	
Drill Pipe	315.00			3708.00	
Change Over Sub	1.00			3709.00	
Bullnose	3.00			3712.00	1000369.00 Bottom Packers & Anchor
Total Tool Length:	370.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

7-15s-19w Ellis,KS
Orville #1
Job Ticket: 49492 **DST#: 3**
Test Start: 2012.08.30 @ 01:45:15

Mud and Cushion Information

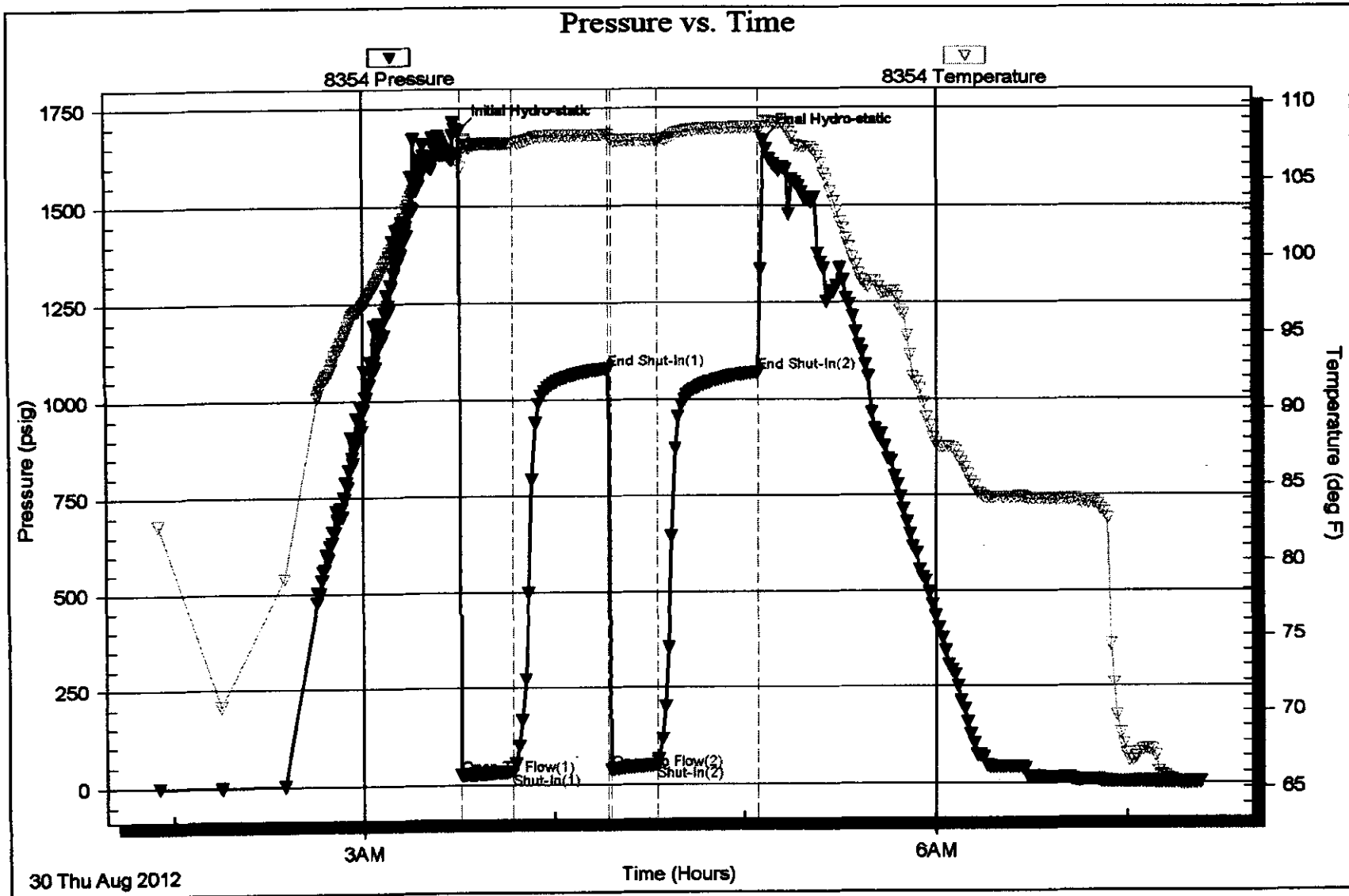
Mud Type:	Gel Chem	Cushion Type:		Oil API:	41 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.59 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3600.00 ppm				
Filter Cake:	Inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
57.00	40%Oil/60%Mud	0.800
40.00	40%Gas/60%Oil	0.561
0.00	1389' G.I.P.	0.000

Total Length: 97.00 ft Total Volume: 1.361 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

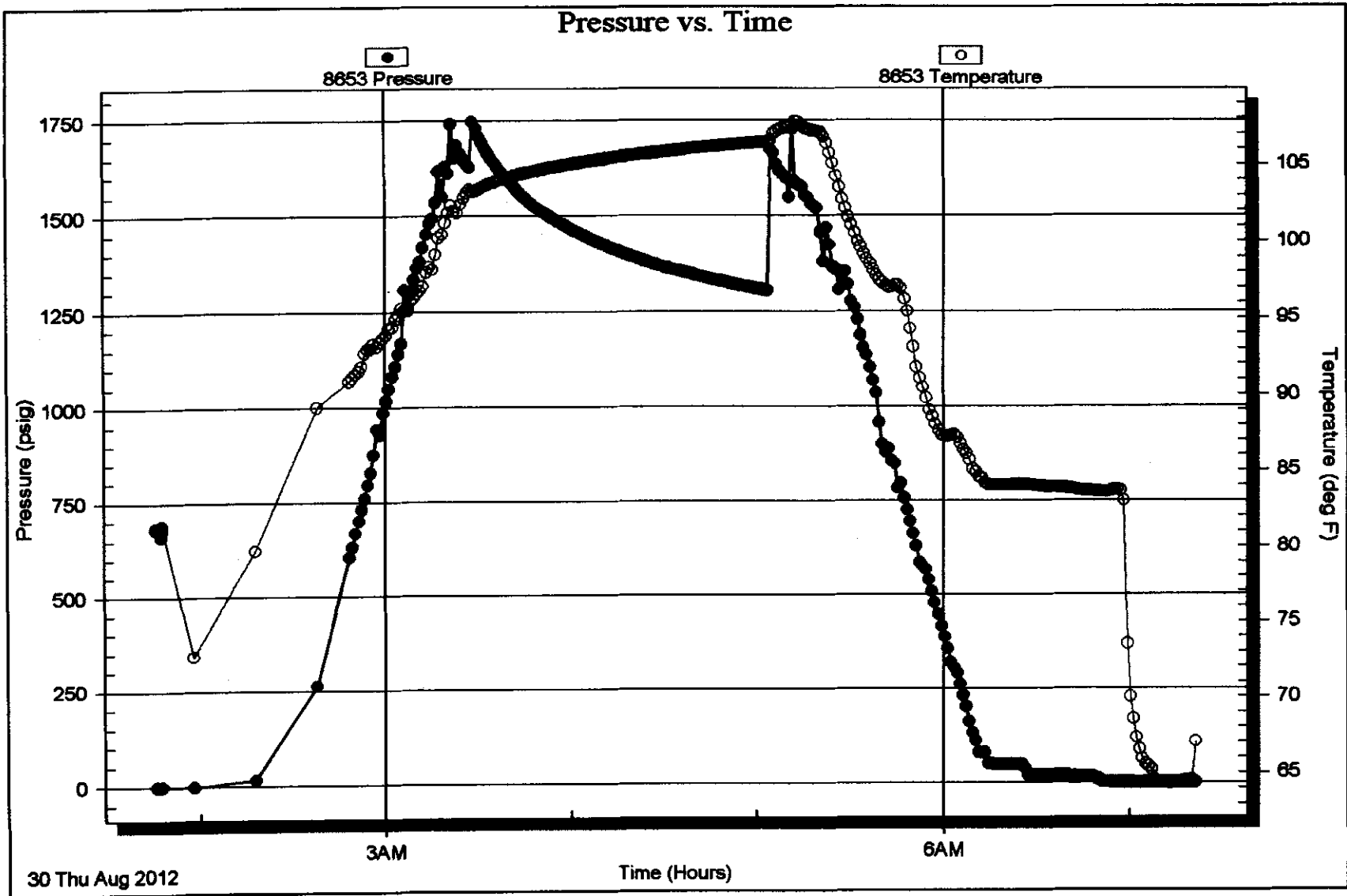


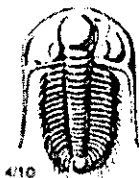
Serial #: 8653

Below (Strat):

Orville #1

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49490

Well Name & No. Orville #1 Test No. 1 Date 8-27-11
 Company TDT, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Demes Rig Southwind 1
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3188-3238 Zone Tested Topeka - Oread
 Anchor Length 50' Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 3183 Drill Collars Run 0 Vis 59
 Bottom Packer Depth 3188 Wt. Pipe Run 0 WL 6.8
 Total Depth 3238 Chlorides 3000 ppm System LCM Z#

Blow Description IF - Weak 1/2 inch blow throughout,
IST - No Return,
FF - No Blow, Flushed Tool, weak surface blow, Dred @ 11 min,
FST - No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1513 Test 1150 T-On Location 0815
 (B) First Initial Flow 33 Jars _____ T-Started 2200
 (C) First Final Flow 37 Safety Joint _____ T-Open 2316
 (D) Initial Shut-In 1004 Circ Sub _____ T-Pulled 0120
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 0245
 (F) Second Final Flow 43 Mileage 17X2 52.7 Comments Bar-2131
 (G) Final Shut-In 961 Sampler _____
 (H) Final Hydrostatic 1480 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1202.70
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1202.70

Approved By _____ Our Representative [Signature]
 TriLOBITE TESTING Inc. shall not be liable for damaged or any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49491

Well Name & No. Owille #7 Test No. 2 Date 8-28-12
 Company TNT, Inc. Elevation 2034 KB 2027 GL
 Address 1310 Bison Rd. Hays, KS 67601
 Co. Rep / Geo. Herb Demes Rig Southwind 2
 Location: Sec. 7 Twp. 15S Rge. 19W Co. Ellis State KS

Interval Tested 3319-3370 Zone Tested LVC "A-C"
 Anchor Length 51' Drill Pipe Run 3332 Mud Wt. 9.0
 Top Packer Depth 3314 Drill Collars Run 0 Vis 48
 Bottom Packer Depth 3319 Wt. Pipe Run 0 WL 7.2
 Total Depth 3370 Chlorides 3600 ppm System LCM 2#

Blow Description IF - Weak surface blow. Surging @ 11 minutes.
ISI - No Return.
FF - No Blow. Flushed Tool. Surface blow. Died @ 9 minutes.
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Mud</u>			<u>100</u>	

Rec Total 35 BHT 106 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1594 Test 1150 T-On Location 1215
 (B) First Initial Flow 22 Jars T-Started ~~1215~~ 1300
 (C) First Final Flow 30 Safety Joint T-Open 1435
 (D) Initial Shut-In 950 Circ Sub T-Pulled 1640
 (E) Second Initial Flow 31 Hourly Standby T-Out 1815
 (F) Second Final Flow 38 Mileage 17X2 52.70 Comments BHT-1248
 (G) Final Shut-In 890 Sampler
 (H) Final Hydrostatic 1597 Straddle

Initial Open 30 Ruined Shale Packer
 Initial Shut-In 30 Ruined Packer
 Final Flow 30 Extra Packer
 Final Shut-In 30 Extra Recorder
 Sub Total 0 Total 1202.70
 Day Standby MP/DST Disc
 Accessibility
 Sub Total 1202.70

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 49492

Well Name & No.	<u>Osaville #1</u>	Test No.	<u>3</u>	Date	<u>8-30-12</u>
Company	<u>TDI Inc.</u>	Elevation	<u>2034</u>	KB	<u>2027</u>
Address	<u>1310 Bison Rd. Hays, KS 67601</u>				
Co. Rep / Geo.	<u>Herb Demes</u>	Rig	<u>Southwind 1</u>		
Location: Sec.	<u>7</u>	Twp.	<u>15S</u>	Rge.	<u>19W</u>
		Co.	<u>ELLIS</u>	State	<u>KS</u>

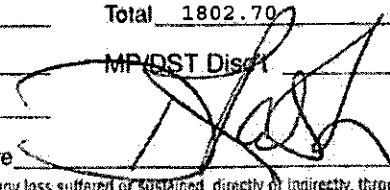
Interval Tested	<u>3362-3382</u>	Zone Tested	<u>LKC "D"</u>
Anchor Length	<u>20' 325' TP</u>	Drill Pipe Run	
Top Packer Depth	<u>3357</u>	Drill Collars Run	<u>0</u>
Bottom Packer Depth	<u>3362</u>	Wt. Pipe Run	<u>0</u>
Total Depth	<u>3707</u>	Chlorides	<u>3600</u> ppm System LCM <u>2#</u>

Blow Description TF - Strong building blow, BOB in 4 minutes,
ISI - No Return.
FF - Strong blow, BOB in 15 seconds,
FBI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Cassy Oil</u>	<u>40</u>	<u>60</u>		
<u>57</u>	<u>HOCM</u>		<u>40</u>		<u>60</u>
	<u>1389' G.I.P.</u>				
Rec Total	<u>97</u>	BHT	<u>109</u>	Gravity	<u>41</u>

(A) Initial Hydrostatic	<u>1691</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>	T-On Location	<u>0100</u>
(B) First Initial Flow	<u>27</u>	<input type="checkbox"/> Jars		T-Started	<u>0145</u>
(C) First Final Flow	<u>34</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>0331</u>
(D) Initial Shut-In	<u>1080</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>0505</u>
(E) Second Initial Flow	<u>38</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>0715</u>
(F) Second Final Flow	<u>50</u>	<input checked="" type="checkbox"/> Mileage	<u>17X2</u> 52.70	Comments	<u>BATT-0145</u>
(G) Final Shut-In	<u>1070</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1667</u>	<input checked="" type="checkbox"/> Straddle	<u>600</u>	<input type="checkbox"/> Ruined Shale Packer	

Initial Open	<u>15</u>	<input type="checkbox"/> Shale Packer		<input type="checkbox"/> Ruined Packer	
Initial Shut-In	<u>30</u>	<input type="checkbox"/> Extra Packer		<input type="checkbox"/> Extra Copies	
Final Flow	<u>15</u>	<input type="checkbox"/> Extra Recorder		Sub Total	<u>0</u>
Final Shut-In	<u>30</u>	<input type="checkbox"/> Day Standby		Total	<u>1802.70</u>
		<input type="checkbox"/> Accessibility		MP/DST Disc 1	
		Sub Total	<u>1802.70</u>		

Approved By _____ Our Representative 

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

OPERATOR

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

Contact Geologist: TOM DENNING
Contact Phone Nbr: 785-259-3141
Well Name: ORVILLE # 1
Location: NE NE SW SE SEC.7-15s-19w
Pool: WILDCAT
State: KANSAS

API: 15-051-26,345-00-00
Field: UNNAMED
Country: USA



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

Scale 1:240 Imperial

Well Name: ORVILLE # 1
Surface Location: NE NE SW SE SEC.7-15s-19w
Bottom Location:
API: 15-051-26,345-00-00
License Number: 4787
Spud Date: 8/23/2012 Time: 3:00 PM
Region: ELLIS COUNTY Time: 4:14 PM
Drilling Completed: 8/29/2012
Surface Coordinates: 1250' FSL & 1330' FEL
Bottom Hole Coordinates:
Ground Elevatn: 2024.00ft
K.B. Elevation: 2034.00ft
Logged Interval: 2900.00ft To: 3707.00ft
Total Depth: 3707.00ft
Formation: LANSING-KANSAS CITY
Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: Latitude:
N/S Co-ord: 1250' FSL
E/W Co-ord: 1330' FEL

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: 8/23/2012
TD Date: 8/29/2012
Rig Release: 8/30/2012

Time: 3:00 PM
Time: 4:14 PM
Time: 8:00 PM

ELEVATIONS

K.B. Elevation: 2034.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2024.00ft

NOTES

DECISION TO RUN PRODUCTION CASING BASED ON RESULTS OF DST # 3, POSITIVE STRUCTURE AND NUMEROUS SHOWS OF OIL IN OTHER ZONES.

LOGGING DONE BY PIONEER ENERGY SERVICES: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG AND MICRORESISTIVITY LOG

DRILL STEM TESTING BY TRILOBITE TESTING, INC: 3 DSTS

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY DEPTH AND ACTIVITY

ORVILLE # 1

1250' FSL & 1330' FEL, SE/4

Sec.7-15s-19w

2024' GL 2034' KB


<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>LOG TOPS</u>
Anhydrite	1274+760	1274+ 760
B-Anhydrite	1308+ 726	1312+ 722
Topeka	3017- 983	3008- 974
Heebner Shale	3285-1251	3281-1247
Toronto	3308-1274	3301-1267
LKC	3330-1296	3327-1293
BKC	3580-1546	3579-1545
Conglomerate Sand	3664-1630	3660-1626
Arbuckle	3674-1640	3678-1644
Reagan Sand	3690-1656	3689-1655
RTD	3707-1673	
LTD		3706-1672

SUMMARY OF DAILY ACTIVITY

8-23-12 RU, Spud

- 8-24-12 1010', drilling, ran 31 jts, new 23# 8 5/8" surface casing set to 1282.62' w/ 375 sxs SMD, plug down 9:00 PM, slope 1/2 degree
- 8-25-12 WOC 12 hrs, kick off drilling plug at 9:00 AM
- 8-26-12 2385', drilling
- 8-27-12 3023', drilling, displace 2875', DST # 1 3188'-3238', slope 1/4 degree
- 8-28-12 3285', drilling, DST # 2, 3319'-3370'
- 8-29-12 3535', drilling, RTD 3707', slope @ 3707 1/4 degree, logs
- 8-30-12 3707', DST # 3 straddle test 3362'-3382', run 5 1/2" production casing

DST # 1 TEST SUMMARY

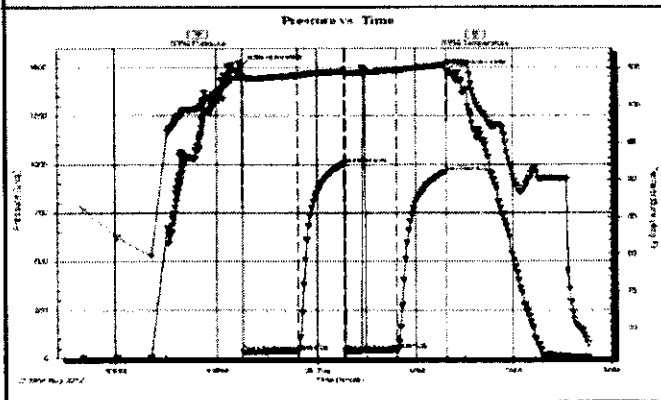
	DRILL STEM TEST REPORT		
	TOI, Inc. 1310 Bison Rd. Hays, KS 67601 ATTN: Herb Deines	7/15S/19W-E11s Orville #1 Job Ticket: 49490 Test Start: 2012.08.27 @ 21:31:15	DST#: 1 DST# 1

GENERAL INFORMATION:

Formation: Topoka-Oread	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Dustin Rash
Time Tool Opened: 23:15:45	Unit No: 38
Time Test Ended: 02:45:45	Reference Elevations: 2034.00 ft (KB)
Interval: 3188.00 ft (KB) To 3238.00 ft (KB) (TVD)	2027.00 ft (CF)
Total Depth: 3238.00 ft (KB) (TVD)	KB to GR/CF: 7.00 ft
Hole Diameter: 7.88 inches	Mole Condition: Fair

Serial #: 8354	Capacity: 8000.00 psig
Press@RunDepth: 42.75 psig @ ft (KB)	Last Calib.: 2012.08.28
Start Date: 2012.08.27	End Date: 2012.08.28
Start Time: 21:41:15	End Time: 02:45:45
	Time On Btm: 2012.08.27 @ 23:15:25
	Time Off Btm: 2012.08.28 @ 01:19:45

TEST COMMENT: IF-Weak 1/2 inch blow throughout
 IS-No Return.
 FF-No Blow. Flushed Tool. Weak surface blow. Died @ 11 minutes.
 FS-No Return.



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1512.71	104.03	Initial Hydro-static
1	32.67	103.73	Open To Flow (1)
33	36.68	104.02	Shut-in (1)
62	1004.15	104.58	End Shut-in (1)
62	36.75	104.21	Open To Flow (2)
93	42.75	104.69	Shut-in (2)
124	961.34	105.51	End Shut-in (2)
125	1480.05	105.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	100% Mud	0.58

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mc/D)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

TDI Inc.
1310 Bison Rd.
Hays, KS 67601
ATTN: Herb Deines

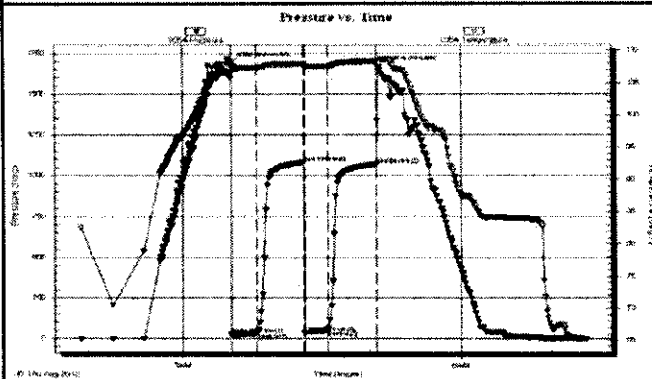
7/15S/19W-ELLIS
Orville #1
Job Ticket: 49492 DST#: 3
Test Start: 2012.08.30 @ 01:45:15

GENERAL INFORMATION:

Formation: **LKC "D"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:30:45
Time Test Ended: 07:23:15
Interval: **3362.00 ft (KB) To 3382.00 ft (KB) (TVD)**
Total Depth: 3707.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dustin Rash
Unit No: 38
Reference Elevations: 2034.00 ft (KB)
2027.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: **8354** Inside
Press@RunDepth: 49.92 psig @ 3363.00 ft (KB)
Start Date: 2012.08.30 End Date: 2012.08.30 Capacity: 8000.00 psig
Start Time: 01:55:15 End Time: 07:23:15 Last Calib.: 2012.08.30
Time On Btm: 2012.08.30 @ 03:30:35
Time Off Btm: 2012.08.30 @ 05:05:45

TEST COMMENT: IF-Strong building blow. BOB in 4 minutes.
IS-No Return.
FF-Strong blow. BOB in 15 seconds.
FS-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.10	106.80	Initial Hydro-static
1	27.31	106.80	Open To Flow (1)
17	33.93	107.37	Shut-In(1)
47	1080.19	107.88	End Shut-In(1)
48	38.05	107.57	Open To Flow (2)
62	49.92	107.56	Shut-In(2)
94	1070.06	108.37	End Shut-In(2)
96	1666.55	108.71	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
57.00	40%OI/60%Mud	0.80
40.00	40%Gas/60%OI	0.55
0.00	1389' G.I.P.	0.00

Gas Rates

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

TriLOBITE Testing, Inc

Ref. No: 49492

Printed: 2012.08.30 @ 08:01:06

ROCK TYPES

Dolprim	shale, gm	shale, red	Dol Lime
Lmst fw<7	shale, gry	Shcol	Lscong
Lmst fw>7	Carbon Sh	Ss	CglSandy

ACCESSORIES

MINERAL

- ▲ Chert, dark
- △ Chert White

FOSSIL

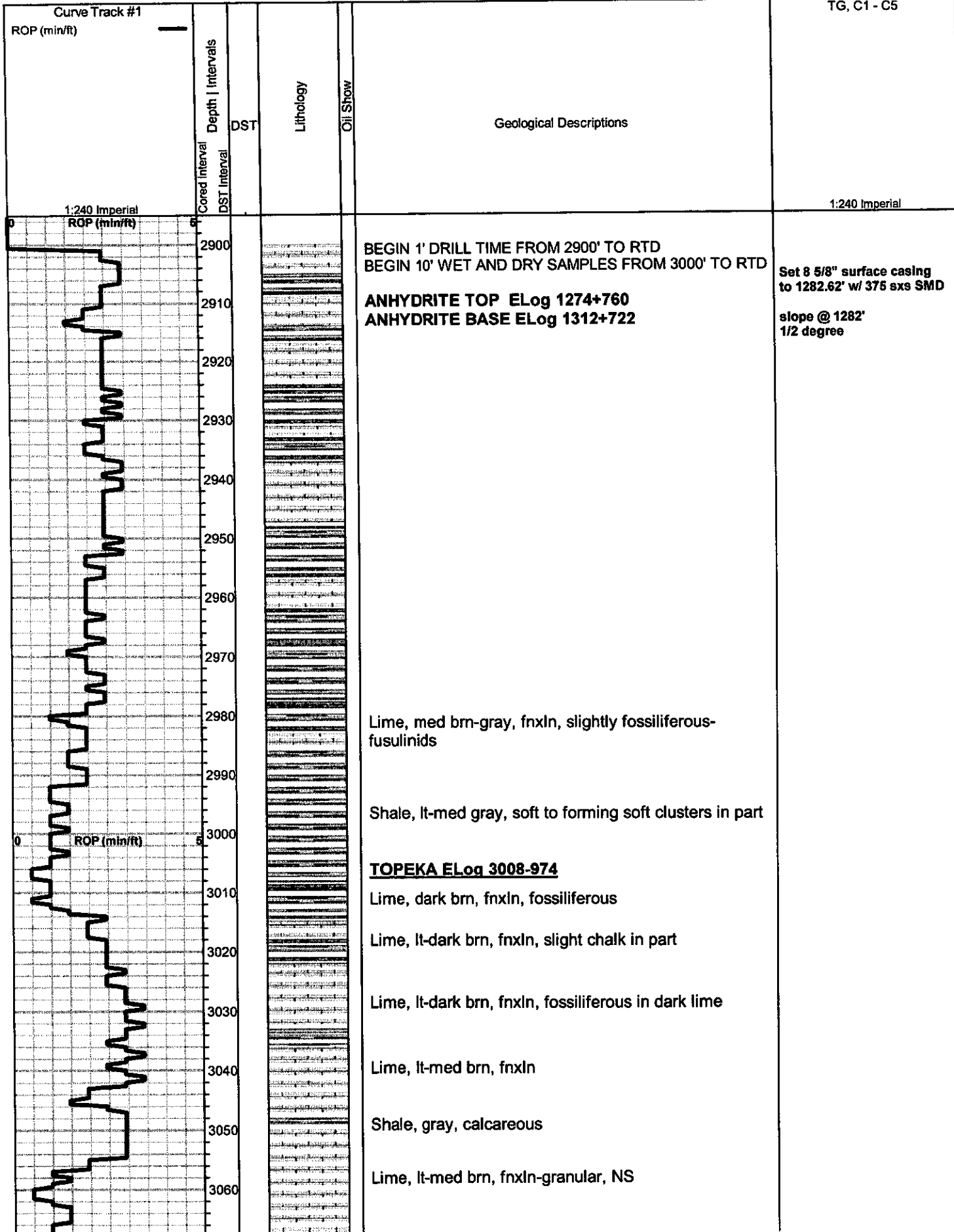
- ◇ Oolite
- ◊ Oomoldic

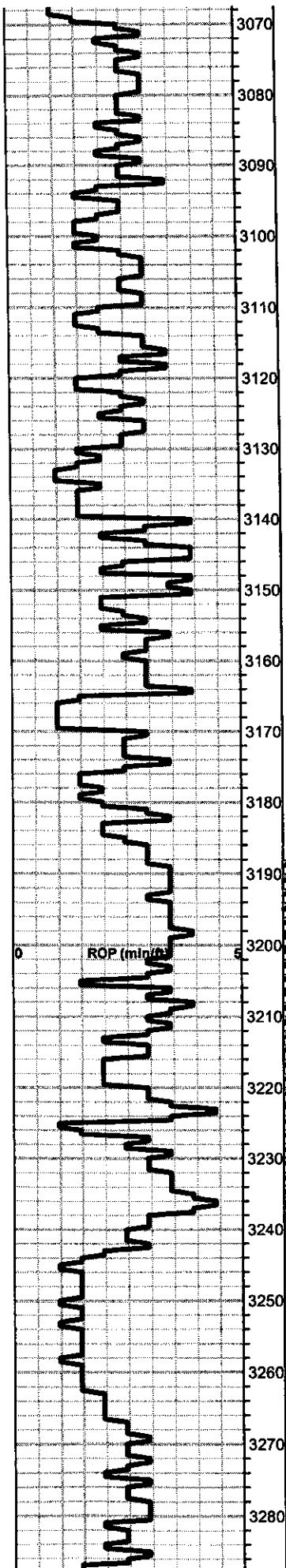
OTHER SYMBOLS

DST
■ DST Int

Core
 DST alt
 DST

TG, C1 - C5





Lime, lt-med brn-lt gray, fnxln
 Shale, lt gray soft forming soft mud clumps

Lime, med brn-grayish brn, fnxln, slight chalk in part

Lime, med brn-grayish brn, fnxln

Lime, med brn-grayish brn, fnxln-granular in part, chalk in part

Lime, med brn-med gray, fnxln-granular in part

Lime, med brn, fnxln-granular, slight chalk in part
 Shale, black carbonaceous, fissile, blocky

Lime, med brn-lt gray, fnxln

Lime, cm, fn- vfxln

Lime cm, fn-vfxln grading into granular, chalky lime, NS

Lime, lt brn, fnxln-granular in part

Lime, offwhite-med brn, fnxln

Shale, black carbonaceous, fissile
 Lime, brn-lt grayish brn, fn-vfxln

Lime, med brn, fnxln

*
 G
 Lime, med brn, fnxln with medium intercrystalline porosity, good odor, light staining, SFO on break

Lime, lt brn-lt grayish brn, fnxln-granular, slight chalk NS
 Lime, fnxln with very dense micritic lime in part
 Shale, grayish green, soft and sticky clumps

D
 Lime, cm-lt brn, fnxln-granular, spotty gilsonite

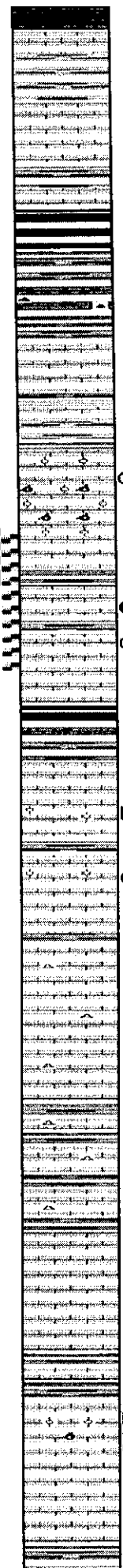
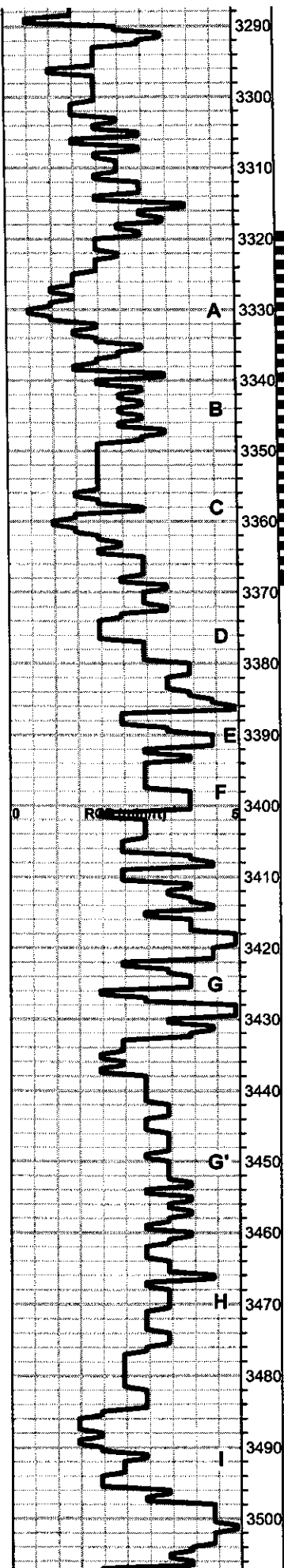
Lime, lt-med brn, granular with scattered gray chert, fresh, sharp

Lime, lt-med brn, fn-vfxln, slight bedded chalk in part

Lime, lt-med brn, fnxln-vfxln, slight bedded chalk

HEEBNER SHALE SPL 3285-1251 EL3281-1247

DST # 1 3188' TO 3238'
 SEE HEADER FOR TEST SUMMARY



Shale, black carbonaceous, fissile, blocky
 Lime, med brn, vfxln, hard, slightly fossiliferous
 Shale, lime green-lt gray, soft mud

TORONTO SPL 3308-1274 ELog 3301-1267

Lime, white-crm, fn-vfxln, bedded chalk, NS

Lime, lt brn-lt gray, fnxln

Shale, red wash forming soft mud

LKC SPL 3330-1296 ELog 3327-1293

Lime, med brn-grayish brn, fnxln
 Shale, lime green-lt gray, forming soft mud clusters
 Lime, lt-med brn, fnxln grading into mixed color limes

Shale, lime green, soft forming soft mud clusters

Lime, crm-tan, fnxln grading into cemented oolitic zone with oolmoldic in part with scattered staining with lt odor
 Lime, lt-med brn, fn-vfxln, slight bedded chalk

Lime, tan-lt brn, fnxln with fine intercrystalline porosity, scattered to saturated staining

Lime, crm, fnxln-vfxln
 Shale, gray-black carbonaceous
 Lime, pale green-lt gray, fnxln

Lime, wht-crm, oolitic in part with flakey gilsonite in part

Lime, crm-tan, oolitic with fossil fragments, saturated stain, very lt odor
 Lime, crm-tan, fn-vfxln, scattered bedded chalk

Lime crm-lt brn, fn-vfxln with scattered granular, NS

Lime, crm-lt brn, fn-vfxln with scattered cemented oolitic lime in part

Lime, lt-med brn, vf-cryptoxln, slight bedded chalk

Lime, med-dark brn, vfxln, hard, slight fossil content

Lime, dark gray-crm-tan, fn-vfxln, hard

Lime, crm-tan, vf-cryptoxln, poor visible porosity, NS

Lime, brn, fnxln, hard

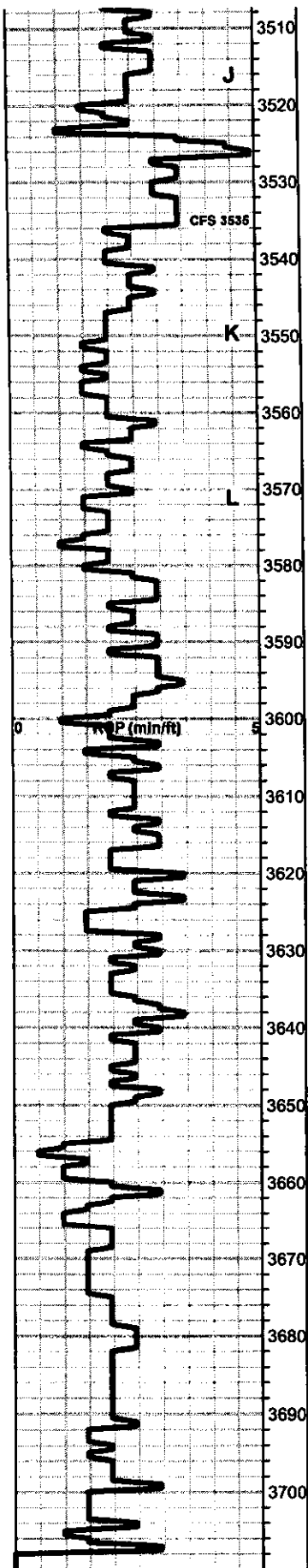
Lime crm-lt brn, fnxln-oolitic/oolmoldic, scattered gilsonite flakes, scat-saturated stain, lt odor

Lime, offwhite, vfxln, hard

Shale, med gray, soft

DST # 2 3319' TO 3370'
 SEE HEADER FOR TEST SUMMARY

DST # 3 STRADDLE TEST
 3362' TO 3382'
 SEE HEADER FOR TEST SUMMARY



* Lime, crm-tan, fnxln with scattered oolitic/oolmoldic with lt scattered staining, vlt odor

Lime, crm, fnxln, chalky

Shale, mix of red, gray, black and lt green shales, soft

Lime, crm-tan, fn-vfxln, brittle on break, bedded chalk

Lime, crm-offwhite, fnxln, bedded chalk in part

Lime, offwhite-crm, fn-vfxln

Lime, crm-lt brn-lt gray, fnxln, slight chalk in part

BKC SPL 3580-1546 ELog 3579-1545

Shale, reddish brn, soft blocky with light red wash

Clastic lime mix with red shale staining

Shale, red wash

Lime, tan, fnxln, chalky with lime clastic mix in part

MARMATON MKR SPL 3727-1593 ELog 3624-1590

Lime, crm-tan, dolomitic in part, fnxln, vari color cherts

Lime, tan, fnxln with fine intercrystalline porosity in part with very light staining, no odor, NFO

Lime, crm-tan, dolomitic, fnxln, cherty grading into trashy clastic mix and red shale with cemented sandstone in part, scattered flakey gilsonite in part

CONGLOMERATE SAND ELog 3660-1626

Sandstone, poorly sorted, cemented with few friable, clean well sorted clusters with lt staining, lt odor and SFO on break

ARBUCKLE 3674-1640 ELog 3678-1644

Dolomite, wht-crm, fnxln-granular, sucrosic in part

REAGAN SAND SPL 3690-1656 ELog 3689-1655

Sandstone,fn-c grained quartz, lt green staining in part, cemented grading into coarser, well sorted, subrounded sandstone, NS

Ran 89 jts new 14# 5 1/2" production casing set to 3703' w/ 125 sxs EA2

Slope 3/4 degree

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

January 2, 2013

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

Re: ACO1
API 15-051-26345-00-00
Orville 1
SE/4 Sec.07-15S-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

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

January 14, 2013

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

Re: ACO-1
API 15-051-26345-00-00
Orville 1
SE/4 Sec.07-15S-19W
Ellis County, Kansas

Dear Tom Denning:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 8/23/2012 and the ACO-1 was received on January 11, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department