

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4787
Name: TDI, Inc.
Address 1: 1310 Bison Road
Address 2: _____
City: Hays State: KS Zip: 67601 + 9696
Contact Person: Tom Denning
Phone: (785) 628-2593
CONTRACTOR: License # 5184
Name: Shields Oil Producers, Inc
Wellsite Geologist: Herb Deines
Purchaser: _____

Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SLOW
_____ Gas _____ ENHR _____ SIGW
_____ CM (Coal Bed Methane) _____ Temp. Abd.
 Dry _____ Other _____
(Core, WSW, Expl., Cathodic, 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: _____ Plug Back Total Depth _____
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
03/22/2010 03/30/2010 3/30/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 051-25958-00-00

Spot Description: _____
NW SW NE SW Sec. 4 Twp. 15 S. R. 19 East West
1750 Feet from North / South Line of Section
1550 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Ellis
Lease Name: Yarnell Well #: 1
Field Name: Reichert

Producing Formation: _____
Elevation: Ground: 2059' Kelly Bushing: 2064'
Total Depth: 3775' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 218 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 D+A Alt II NCR
(Data must be collected from the Reserve Pit) 4-14-10
Chloride content: 49,000 ppm Fluid volume: 1,000 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Tom Denning
Title: President Date: 04/12/2010
Subscribed and sworn to before me this 12th day of April,
2010.
Notary Public: Vickie Cole
Date Commission Expires: 10-18-2012



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

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Operator Name: TDI, Inc. Lease Name: Yarnell Well #: 1
 Sec. 4 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 copy of all Electric Wireline 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 <i>(Submit Copy)</i> List All E. Logs Run: Dual Compensated Porosity Dual Induction Microresistivity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1314'</td> <td>+750'</td> </tr> <tr> <td>Topeka</td> <td>3054'</td> <td>-990'</td> </tr> <tr> <td>Heebner</td> <td>3329'</td> <td>-1265'</td> </tr> <tr> <td>Lans/KC</td> <td>3376'</td> <td>-1312'</td> </tr> <tr> <td>Base KC</td> <td>3619'</td> <td>-1555'</td> </tr> <tr> <td>Arbuckle</td> <td>3718'</td> <td>-1654'</td> </tr> <tr> <td>Regan</td> <td>3762'</td> <td>-1698'</td> </tr> </table>	Name	Top	Datum	Anhydrite	1314'	+750'	Topeka	3054'	-990'	Heebner	3329'	-1265'	Lans/KC	3376'	-1312'	Base KC	3619'	-1555'	Arbuckle	3718'	-1654'	Regan	3762'	-1698'
Name	Top	Datum																							
Anhydrite	1314'	+750'																							
Topeka	3054'	-990'																							
Heebner	3329'	-1265'																							
Lans/KC	3376'	-1312'																							
Base KC	3619'	-1555'																							
Arbuckle	3718'	-1654'																							
Regan	3762'	-1698'																							

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
surface	12 1/4"	8 5/8'	23#	218'	Common	150 sx	2 % gel, 3 % cc

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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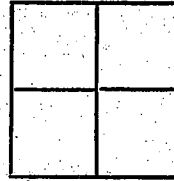
Shields

Russell, Kansas

WELL LOG

Operator: TDI, Inc.
 Well: Yarnell #1
 Commenced: 3-22-10
 Completed: 3-30-10
 Contractor: Shields Drilling Co.

Well Description: 1,750' FSL, 1,550' FWL
 SW/4 Sec. 4-15S-19W
 Ellis Co., KS



CASING RECORD

Size	Run	Pulled
8 5/8"	218'	Cmtd. w/150 sax

Elevation: 2,064' K.B.

Treatment:

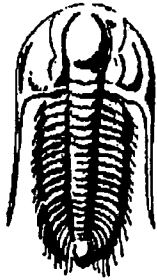
Production: D & A

Tops:

..... Figures Indicate Bottom of Formations

Sand & shale	775'	
Sand	1,055'	
Sand & redbed	1,318'	
Anhydrite	1,361'	
Redbed & shale	1,945'	
Shale	2,695'	
Shale & lime	3,345'	
Lime	3,719'	
Arbuckle	3,775'	RTD

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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

4-15s-19w-Ellis

Yarnell #1

Start Date: 2010.03.27 @ 19:54:31

End Date: 2010.03.28 @ 01:29:31

Job Ticket #: 38098 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

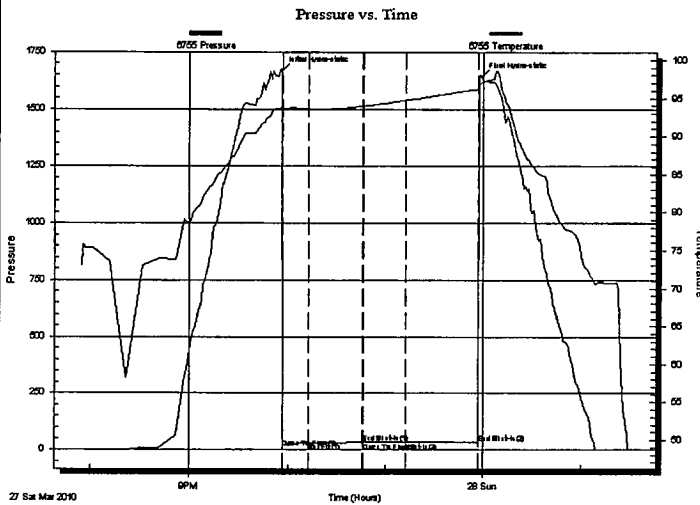
Yarnell #1
4-15s-19w-Ellis
Job Ticket: 38098 DST#: 1
Test Start: 2010.03.27 @ 19:54:31

GENERAL INFORMATION:

Formation: "D"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:56:31
Time Test Ended: 01:29:31
Interval: 3416.00 ft (KB) To 3434.00 ft (KB) (TVD)
Total Depth: 3434.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32
Reference Elevations: 2064.00 ft (KB)
2059.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 Inside
Press@RunDepth: 32.79 psig @ 3418.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.03.27 End Date: 2010.03.28 Last Calib.: 2010.03.27
Start Time: 19:54:33 End Time: 01:29:31 Time On Btm: 2010.03.27 @ 21:56:01
Time Off Btm: 2010.03.27 @ 23:59:01

TEST COMMENT: IFF-Weak Blow ,Died in 12 Min.
ISI-Dead
FFP-Dead
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.06	93.89	Initial Hydro-static
1	10.06	93.44	Open To Flow (1)
17	30.52	93.60	Shut-In(1)
50	32.77	93.93	End Shut-In(1)
51	32.77	93.94	Open To Flow (2)
77	32.79	94.73	Shut-In(2)
121	32.80	96.20	End Shut-In(2)
123	1641.84	96.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.50	Drilling Mud	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 Road
Hays, KS. 67601

Yarnell #1
4-15s-19w-Ellis
Job Ticket: 38098 **DST#: 1**
Test Start: 2010.03.27 @ 19:54:31

ATTN: Herb Deines

Tool Information

Drill Pipe:	Length: 2990.00 ft	Diameter: 3.80 inches	Volume: 41.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 418.00 ft	Diameter: 2.70 inches	Volume: 2.96 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: 52000.00 lb
			<u>Total Volume: 44.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3416.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	41.00 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			3394.00	
Shut In Tool	5.00			3399.00	
Hydraulic tool	5.00			3404.00	
Safety Joint	2.00			3406.00	
Packer	5.00			3411.00	23.00 Bottom Of Top Packer
Packer	5.00			3416.00	
Stubb	1.00			3417.00	
Perforations	1.00			3418.00	
Recorder	0.00	6755	Inside	3418.00	
Recorder	0.00	8360	Outside	3418.00	
Perforations	13.00			3431.00	
Bullnose	3.00			3434.00	18.00 Bottom Packers & Anchor

Total Tool Length: 41.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.

Yarnell #1

1310 Bison Road
Hays, KS. 67601

4-15s-19w-Ellis

Job Ticket: 38098

DST#: 1

ATTN: Herb Deines

Test Start: 2010.03.27 @ 19:54:31

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.50	Drilling Mud	0.004

Total Length: 0.50 ft

Total Volume: 0.004 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

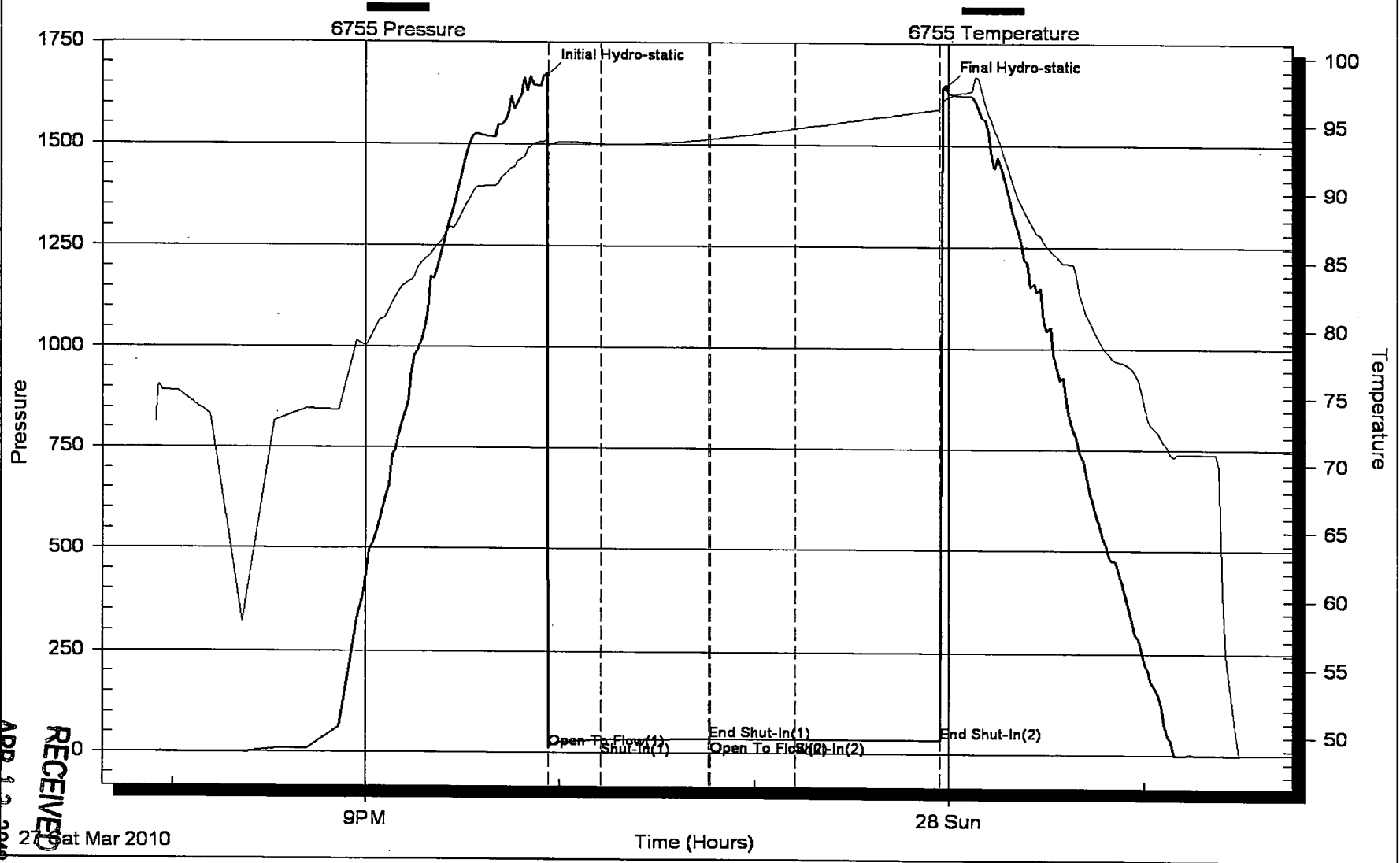
Serial #:

Laboratory Name:

Laboratory Location:

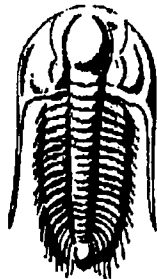
Recovery Comments:

Pressure vs. Time



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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **TDI, Inc.**

1310 Bison Road
Hays, KS. 67601

ATTN: Herb Deines

4-15s-19w-Ellis

Yarnell #1

Start Date: 2010.03.28 @ 15:45:38

End Date: 2010.03.28 @ 21:13:38

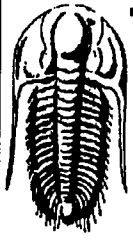
Job Ticket #: 38099 DST #: 2

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WICHITA

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

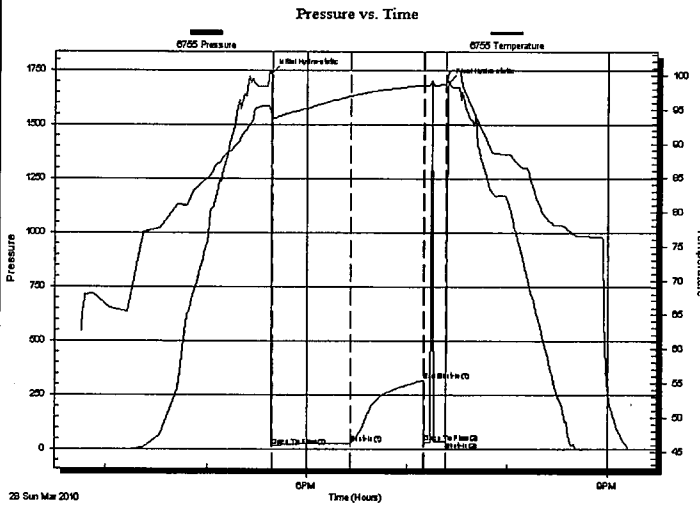
Yarnell #1
4-15s-19w-Ellis
Job Ticket: 38099 DST#: 2
Test Start: 2010.03.28 @ 15:45:38

GENERAL INFORMATION:

Formation: "H-I-J"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 17:38:38
Time Test Ended: 21:13:38
Interval: 3490.00 ft (KB) To 3570.00 ft (KB) (TVD)
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Jason McLemore
Unit No: 32
Reference Elevations: 2064.00 ft (KB)
2059.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6755 Inside
Press@RunDepth: 29.40 psig @ 3557.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.03.28 End Date: 2010.03.28 Last Calib.: 2010.03.28
Start Time: 15:45:40 End Time: 21:13:38 Time On Btm: 2010.03.28 @ 17:38:08
Time Off Btm: 2010.03.28 @ 19:24:38

TEST COMMENT: IFP-Weak Blow ,Built to 1-1/2"
ISI-Dead
FFP-Weak Surface Blow ,Flush Tool, No Improvement,Pull Tool.



PRESSURE SUMMARY

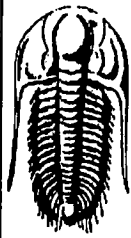
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.29	94.25	Initial Hydro-static
1	15.88	93.65	Open To Flow (1)
48	29.40	96.93	Shut-In(1)
92	318.82	98.60	End Shut-In(1)
92	31.03	98.43	Open To Flow (2)
105	37.39	98.73	Shut-In(2)
107	1694.56	100.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud W/Oil Specks	0.32

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI, Inc.
1310 Bison Road
Hays, KS. 67601

Yarnell #1
4-15s-19w-Ellis
Job Ticket: 38099 **DST#: 2**
Test Start: 2010.03.28 @ 15:45:38

ATTN: Herb Deines

Tool Information

Drill Pipe:	Length: 3054.00 ft	Diameter: 3.80 inches	Volume: 42.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 418.00 ft	Diameter: 2.70 inches	Volume: 2.96 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: 52000.00 lb
			Total Volume: 45.80 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3490.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	101.00 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			3470.00	
Shut In Tool	5.00			3475.00	
Hydraulic tool	5.00			3480.00	
Packer	5.00			3485.00	21.00 Bottom Of Top Packer
Packer	5.00			3490.00	
Stubb	1.00			3491.00	
Perforations	2.00			3493.00	
Change Over Sub	1.00			3494.00	
Blank Spacing	62.00			3556.00	
Change Over Sub	1.00			3557.00	
Recorder	0.00	6755	Inside	3557.00	
Recorder	0.00	8360	Outside	3557.00	
Perforations	10.00			3567.00	
Bullnose	3.00			3570.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI, Inc.

Yarnell #1

1310 Bison Road
Hays, KS. 67601

4-15s-19w-Ellis

Job Ticket: 38099

DST#: 2

ATTN: Herb Deines

Test Start: 2010.03.28 @ 15:45:38

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud W/Oil Specks	0.319

Total Length: 45.00 ft

Total Volume: 0.319 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

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Pressure vs. Time

