



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1060209

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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

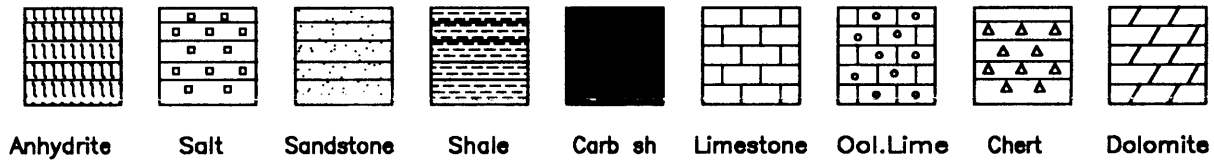
Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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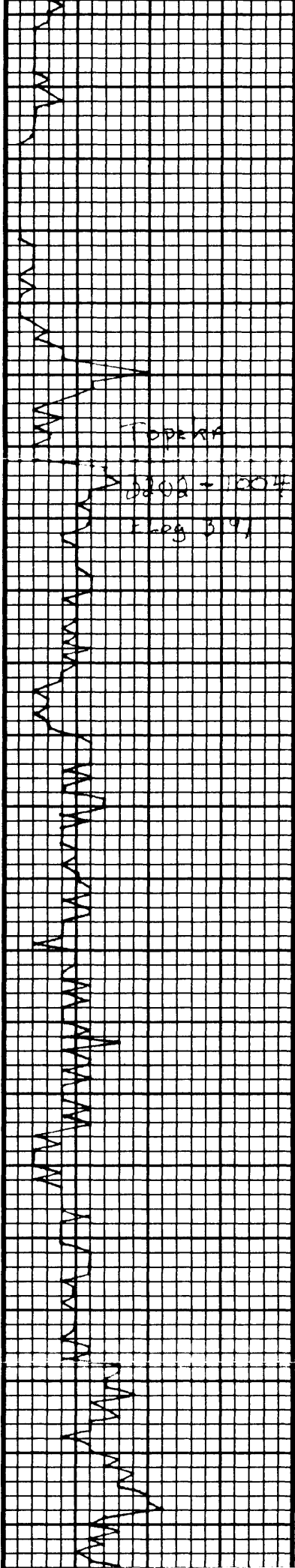
* Structural Position to:

LEGEND



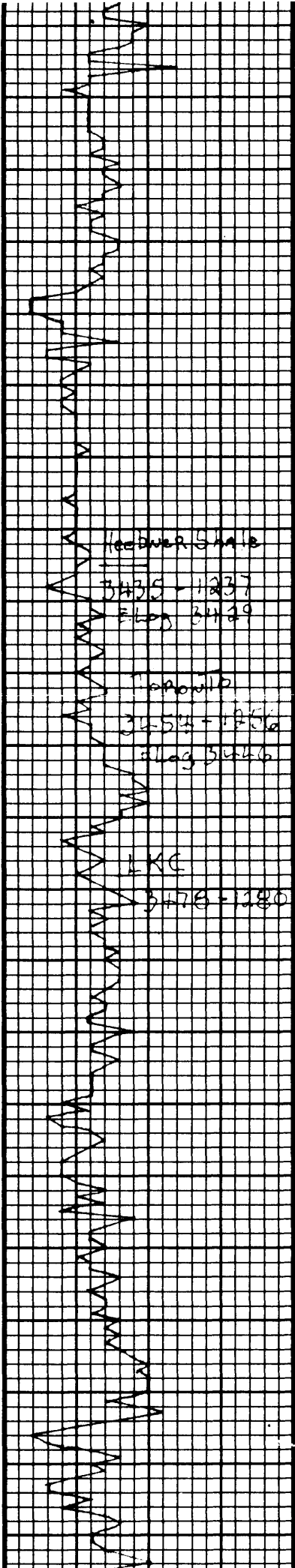
SCALE " = 100'

Drilling time in minutes 1 2 3 4 5 6 7 8 9	DEPTH	Sample Description	Remarks, drill stem tests, etc.
			Mud Program - Gel Chemical Mud-Co
	80		Slope Survey @ 225' 14"
	90		
	1500		
	10		Anhydrite Top 1509 + 489 Elev 1502
	20		
	30		
	40		Anhydrite Base Elev 937
	50		1543 + 455
	60		
	3100		
	10		
	20		lim Lt GRN Fm x/v - GRANULAR
	30		Sh Lt gray x/v + slicky
			lim GRN - hltan Fm x/v



40	lm cam-ban Fuxin
50	Sh lt gray soft
60	
70	Sh lt-Med gray
80	
90	lm cam-lt ban Fuxin
3200	Sh lt-med gray soft
10	lm cam-lt ban Fuxin
20	lm lt ban gray Fuxin
30	lm wht-cam Fuxin St.uss
40	lm cam-lt ban Fuxin-granular NS
50	Sh gray-bk
60	lm lt ban gray Fu-VFXIN
70	lm cam-lt ban Fuxin
80	lm cam Fuxin-granular
90	lm cam-ban gray Fuxin
3300	lm cam-lt ban granular w chalk St. Foss up
10	Sh bk carb lm cam-ban gray Fuxin-granular
20	Sh gray calcareous
	lm cam-lt ban Fuxin granular
40	lm wht-cam-med ban Fuxin-granular w chalk
50	lm wht-cam Fu-VFXIN chalk in part

0200-1004
 Feb 3 1971



60
 1m LT med BAN - gray - shaly
 Foss in part
 sh. med carb

70
 1m LT gray FNXN pyritic shaly
 sh gray calcareous

80
 1m LT med BAN - BAN
 FNXN in part

90
 1m LT BAN mostly FNXN

3400
 1m BAN Dolomite w/interbedded
 Seal - SAT STN w/ LT dol

10
 1m LT BAN granular w/char in part

20
 1m LT BAN - LT gray
 FNXN in part

30
 1m LT med BAN FNXN - granular
 sh. med carb

40
 1m med BAN UFXN head
 sh. med carb

50
 1m LT gray

60
 1m BAN UFXN
 Foss in part
 zone appears very thin
 poorly developed

70
 1m BAN - BAN UFXN shaly
 sh. gray med. BAN

80
 1m BAN - BAN FNXN
 sh. med carb in part

90
 1m BAN - BAN FNXN
 sh. med carb in part

3500
 sh. gray pyritic

10
 1m LT BAN FNXN - conchoidal in part
 LT shaly w/ sh. gray
 Repeats poorly developed interbedded
 w/ sh. med carb

20
 1m LT BAN - BAN FNXN - granular
 sh. med carb in part

30
 sh. med. BAN

40
 1m LT BAN - LT BAN FNXN w/ Foss
 and sh. med carb in part
 LT dol. w/ med carb in part

50
 1m LT BAN FNXN
 sh. gray - med
 sh. gray FNXN

60
 1m LT BAN Foss
 w/ interbedded sh. med carb

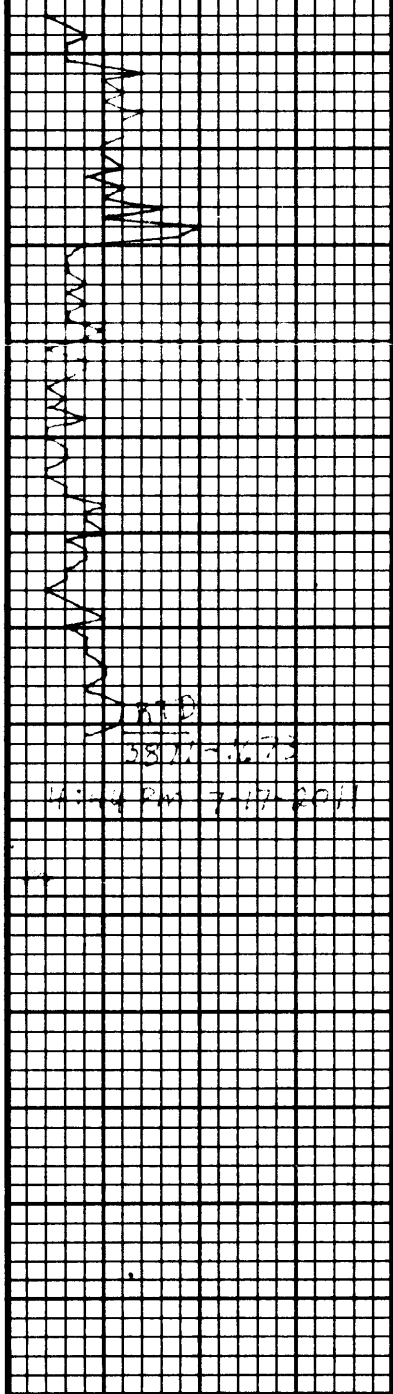
70
 1m LT BAN Foss - FNXN
 Seal - SAT STN w/ LT dol

Slope Survey 3524' 1 1/2°
 Pipe Strap short to Bogad 2.04

DST #1 3464' - 3524'
 30-45-60-60
 Rec: 78' OCM - 1%G, 11%O, 88%W
 63' SOCMW - 3%G, 2%O
 54%W, 41%M
 BHT: 110°
 R_w .184 @ 94.8°
 CL: 28,000 ppm
 ISIP: 384*
 FSIP: 372*

FP: 34-54, 58-79
 1st Open: wk - built to 3 1/4"
 No blow back
 2nd Open: wk - built to 5 3/4"
 No blow back

DST #2 3524' - 3574'
 30-45-60-60
 Rec: 62' mw w/ scum oil
 62' VSOCMW - 5%O
 10%W, 85%M
 20' Free Oil
 GRAVITY 27
 R_w .15 @ 101°
 CL: 34,000 ppm
 ISIP: 829*
 FSIP: 798*
 FP: 34-56, 60-90
 1st Open: wk - built to 4"



3800
10
20
40
50
60
70
80
90
3900

SS + shales med. grains, fair to
poor in sort - spongy

SS + shales w increasing var. in shales

SS + shales w large % variation shales

SS large grain, clean, well sorted
grains w sand staining top
of back diam. lens

SS + shales w increasing coarse med

No red wash noted

SS + shales

SS + shales

No red wash noted

SS + shales

FSIF: 1005
FP: 33-98, 105-156

1st Open: Fair blow - BOB 15 min.
wk surface blow w blow back

2nd Open: Fair - BOB 18 1/2 min
Blow back - Surface blow

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 4975

Cell 785-324-1041

Date	7-9-11	Sec.	19	Twp.	12	Range	18	County	Ellis	State	Ks	On Location		Finish	7:30 PM	
Lease	Miller		Well No.	#1		Location Hays, Ks - W to Burdette Rd, 2 1/4 W										
Contractor	Southwind #1							Owner	S/S							
Type Job	Surface							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/4"		T.D.	225'		Charge To TDI Inc.										
Csg.	8 5/8"		Depth	222'		Street										
Tbg. Size			Depth			City										
Tool			Depth			State										
Cement Left in Csg.	15'		Shoe Joint	15'		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace	13 BLS		Cement Amount Ordered 1855 Sx Common 3 1/2 CC, 2 1/2 Gd										

EQUIPMENT

Pumptrk	1	No.	Cementer	Helper	Cisco	Common	150
Bulktrk	14	No.	Driver	Driver	Matt	Poz. Mix	
Bulktrk	p.u.	No.	Driver	Driver	Rick	Gel.	3

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate.	Calcium	5
Rat Hole		Hulls	
Mouse Hole		Salt	
Centralizers		Flowseal	
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
		CFL-117 or CD110 CAF 38	
		Sand	
		Handling	150
		Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	11

X Signature	Frank Renee	Tax	
		Discount	
		Total Charge	

JOB LOG

SWIFT Services, Inc.

DATE 7-17-11 PAGE NO. 9

CUSTOMER TDI WELL NO. #1 LEASE Miller JOB TYPE 2-stage TICKET NO. 19726

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1815							OK loc w/FE
								RTD 3871' LTD 3869' 5 1/2" x 14# x 3867' x 4.3' Cent. 4, 3, 5, 7, 9, 11, 55, 71 Bosh 4, 12, 92, 72 DV 92@ 1517'
	1910							Start F.E.
	2045							Break Circ.
	2120	4.5	0				150	Start Pref 500gal Mudflush 20 bbl KCL flush
	2127	5.5	32/0				200	Start Cement 200sks EA-2
	2136		48					End Cement wash P&L Drop L.D. Plug
	2140	6	0				200	Start displacement wt. mud
	2150	6	60				200	
	2152	5	70				250	catch Cement (start KCL flush)
	2200		93				600/1500	Land Plug Release pressure / Float Hold
	2205							Drop Opening Plug
	2210	2.5	7					Plug RH 25 sks SMD
	2220						1100	Open D.V.
	2225	5.5	0				100	Start Cement 175sks SMD
	2245		110					End Cement Drop Closing Plug
	2248	5	0				100	Start Displacement
	2253	4	23				150	Catch Cement
	2253		24				150	Circulate Cement
	2257		37				300/1500	Land Plug Release Pressure DV Closed
								circ. 35sks topit Mark Hooker
								Thank you
								Nick, Josh P & Joe



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 042914 **DST#: 1**
Test Start: 2011.07.14 @ 12:15:00

GENERAL INFORMATION:

Formation: **LKC "A - C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:03:00
 Time Test Ended: 19:13:00
 Interval: **3464.00 ft (KB) To 3524.00 ft (KB) (TVD)**
 Total Depth: 3524.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: James Winder
 Unit No: 46
 Reference Elevations: 2198.00 ft (KB)
 2188.00 ft (CF)
 KB to GR/CF: 10.00 ft

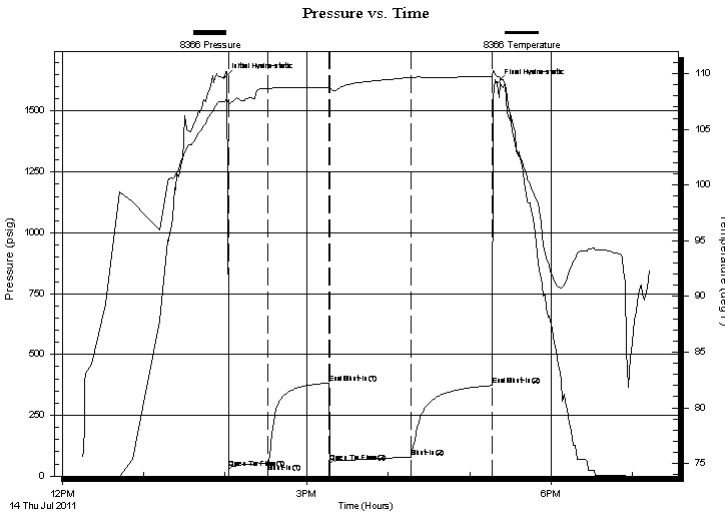
Serial #: 8366

Inside

Press @ Run Depth: 78.75 psig @ 3465.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.14 End Date: 2011.07.14 Last Calib.: 2011.07.14
 Start Time: 12:15:05 End Time: 19:12:59 Time On Btm: 2011.07.14 @ 13:59:30
 Time Off Btm: 2011.07.14 @ 17:20:30

TEST COMMENT: IF: Bled off surge blow at 4 min., Blow built to 3 1/4"
 IS: No blow back
 FF: Blow started at 6 min., built to 5 3/4"
 FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1638.15	107.46	Initial Hydro-static
4	34.22	107.43	Open To Flow (1)
32	54.34	108.66	Shut-In(1)
77	383.86	108.75	End Shut-In(1)
78	58.25	108.68	Open To Flow (2)
137	78.75	109.67	Shut-In(2)
197	372.45	109.74	End Shut-In(2)
201	1615.26	109.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	SO/MW 54%w, 41%m, 3%g, 2%o	0.88
78.00	OCM 88%m, 11%o, 1%g	1.09

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 042914 **DST#: 1**
Test Start: 2011.07.14 @ 12:15:00

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:	28000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 1.00 inches			

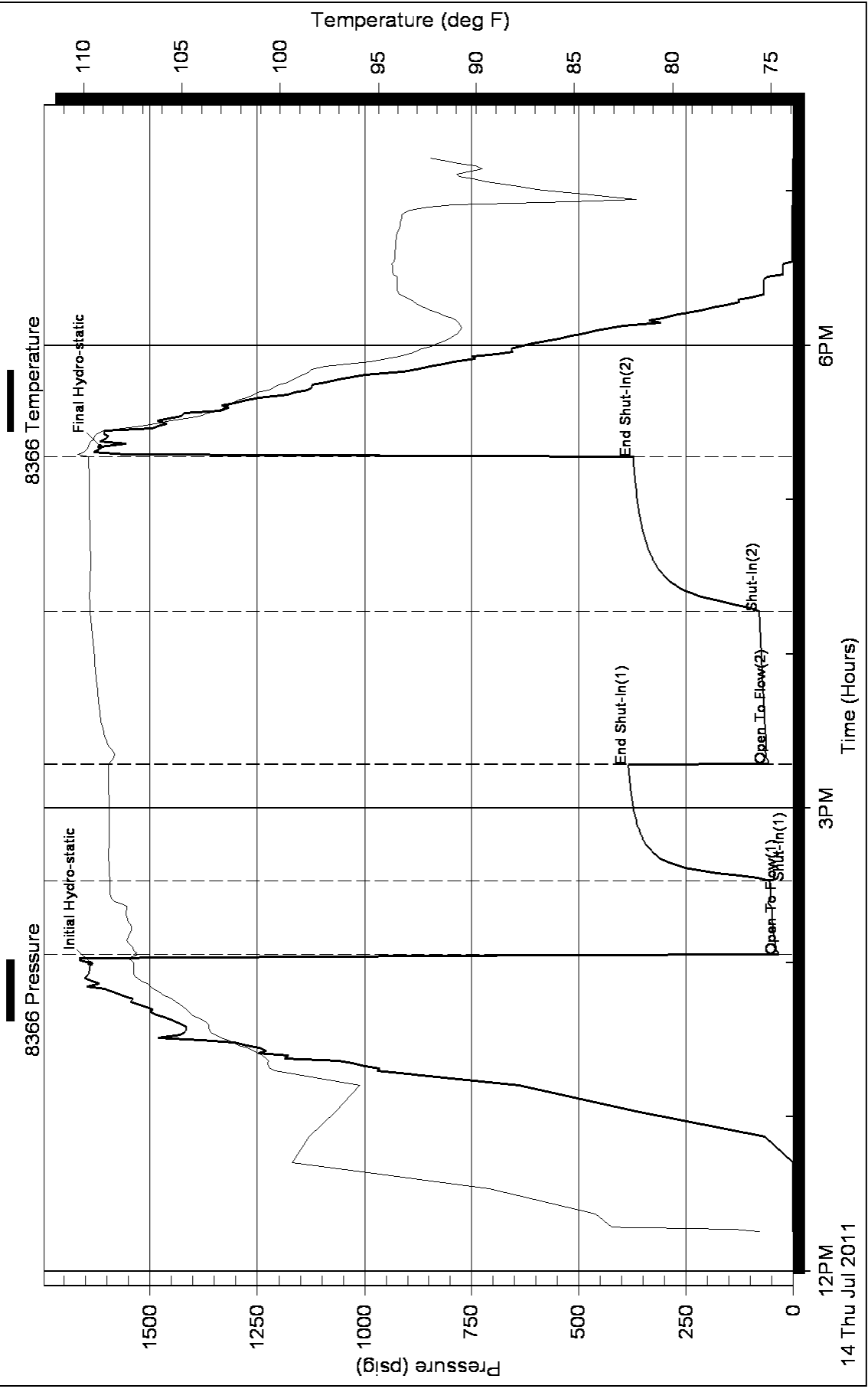
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	SO/MW 54%w , 41%m, 3%g, 2%o	0.884
78.00	OCM 88%m, 11%o, 1%g	1.094

Total Length: 141.00 ft Total Volume: 1.978 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW = .184 ohms @ 94.9 deg F
 Chlorides = 28,000 ppm

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45180 **DST#: 2**
Test Start: 2011.07.15 @ 03:42:00

GENERAL INFORMATION:

Formation: **KC "D-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:33:50
 Time Test Ended: 11:02:39
 Interval: **3524.00 ft (KB) To 3574.00 ft (KB) (TVD)**
 Total Depth: 3574.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 2198.00 ft (KB)
 2188.00 ft (CF)
 KB to GR/CF: 10.00 ft

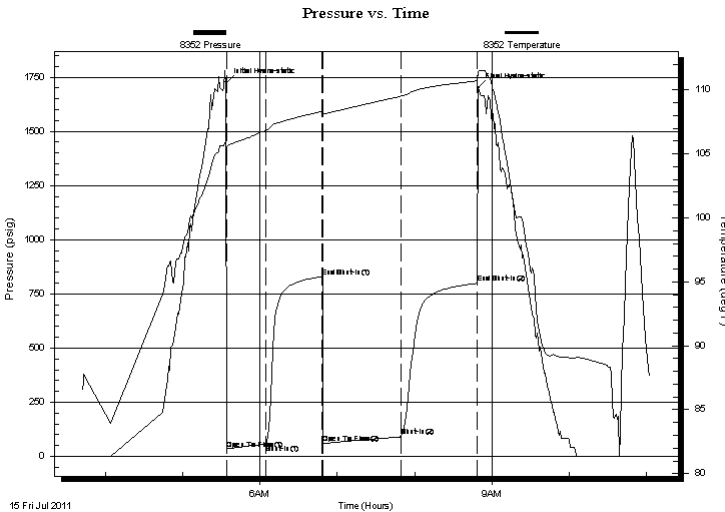
Serial #: 8352

Inside

Press @ Run Depth: 90.64 psig @ 3563.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.15 End Date: 2011.07.15 Last Calib.: 2011.07.15
 Start Time: 03:42:05 End Time: 11:02:39 Time On Btm: 2011.07.15 @ 05:33:40
 Time Off Btm: 2011.07.15 @ 08:49:30

TEST COMMENT: 30 - IF- 4" blow
 45 - IS- No blow back
 60 - FF- 1" blow
 60 - FS- no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1725.78	105.94	Initial Hydro-static
1	34.76	105.13	Open To Flow (1)
31	56.21	106.83	Shut-In(1)
75	829.00	108.33	End Shut-In(1)
76	60.37	108.09	Open To Flow (2)
136	90.64	109.50	Shut-In(2)
195	798.75	110.71	End Shut-In(2)
196	1700.85	111.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, Oil scrub 40%O, 60%W	0.87
62.00	VSO CWM 5%O, 10%W, 85%M	0.87
20.00	Free Oil	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45180 **DST#: 2**
Test Start: 2011.07.15 @ 03:42:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 27 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 34000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MW, Oil scrum 40%M, 60%W	0.870
62.00	VSOCWM 5%O, 10%W, 85%M	0.870
20.00	Free Oil	0.281

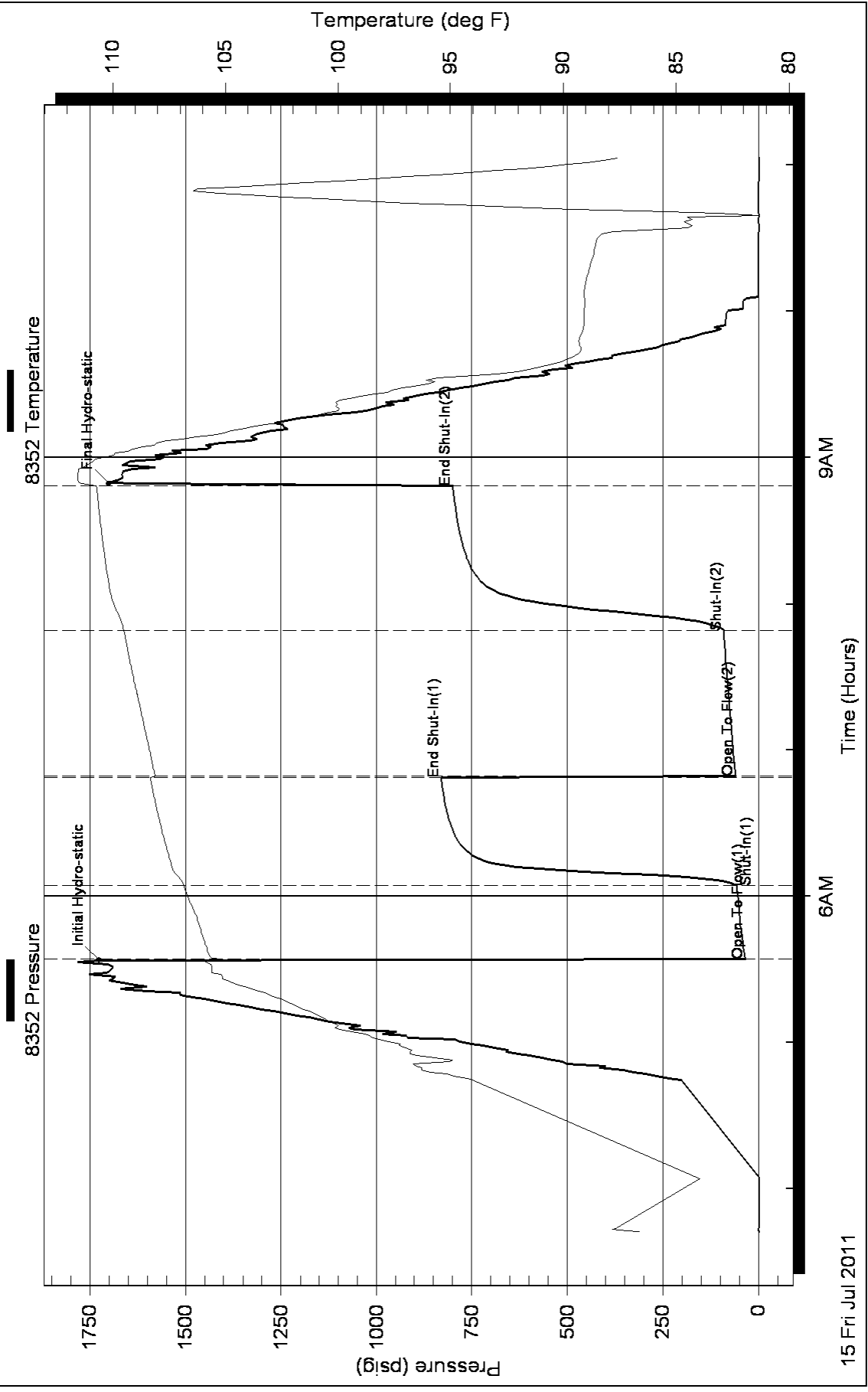
Total Length: 144.00 ft Total Volume: 2.021 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Water Salinity: .13 @ 101 Degees = 34,000
Oil Gravity: 30 @ 96 Degrees = 27

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45181 **DST#: 3**
Test Start: 2011.07.16 @ 00:34:00

GENERAL INFORMATION:

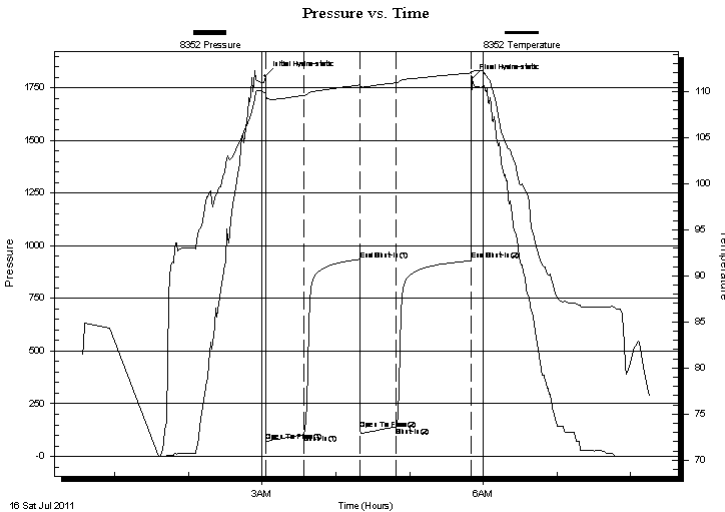
Formation: **KC "H-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:03:10
 Time Test Ended: 08:15:20
 Interval: **3600.00 ft (KB) To 3720.00 ft (KB) (TVD)**
 Total Depth: 3720.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Cody Bloedorn
 Unit No: 38
 Reference Elevations: 2198.00 ft (KB)
 2188.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8352 Outside

Press @ Run Depth: 140.04 psig @ 3701.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.07.16 End Date: 2011.07.16 Last Calib.: 2011.07.16
 Start Time: 00:34:05 End Time: 08:15:20 Time On Btm: 2011.07.16 @ 03:03:00
 Time Off Btm: 2011.07.16 @ 05:51:09

TEST COMMENT: 30 - IF- B.O.B. in 6 Min.
 45 - IS- 1/2" blow , died in 22 Min.
 30 - FF- B.O.B. In 8 Min
 60 - FS- 7" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1807.68	109.73	Initial Hydro-static
1	69.56	108.96	Open To Flow (1)
31	104.59	109.56	Shut-In(1)
77	934.26	110.70	End Shut-In(1)
77	128.89	110.23	Open To Flow (2)
107	140.04	110.94	Shut-In(2)
168	930.98	111.95	End Shut-In(2)
169	1794.35	112.15	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GO, 10%G, 90%O	0.87
62.00	GO, 40%G, 60%O	0.87
62.00	GOCM, 10%O, 20%G, 70%M	0.87
62.00	GMCO, 5%M, 35%G, 60%O	0.87
0.00	17 Stands of G.I.P.	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45181 **DST#: 3**
Test Start: 2011.07.16 @ 00:34:00

Mud and Cushion Information

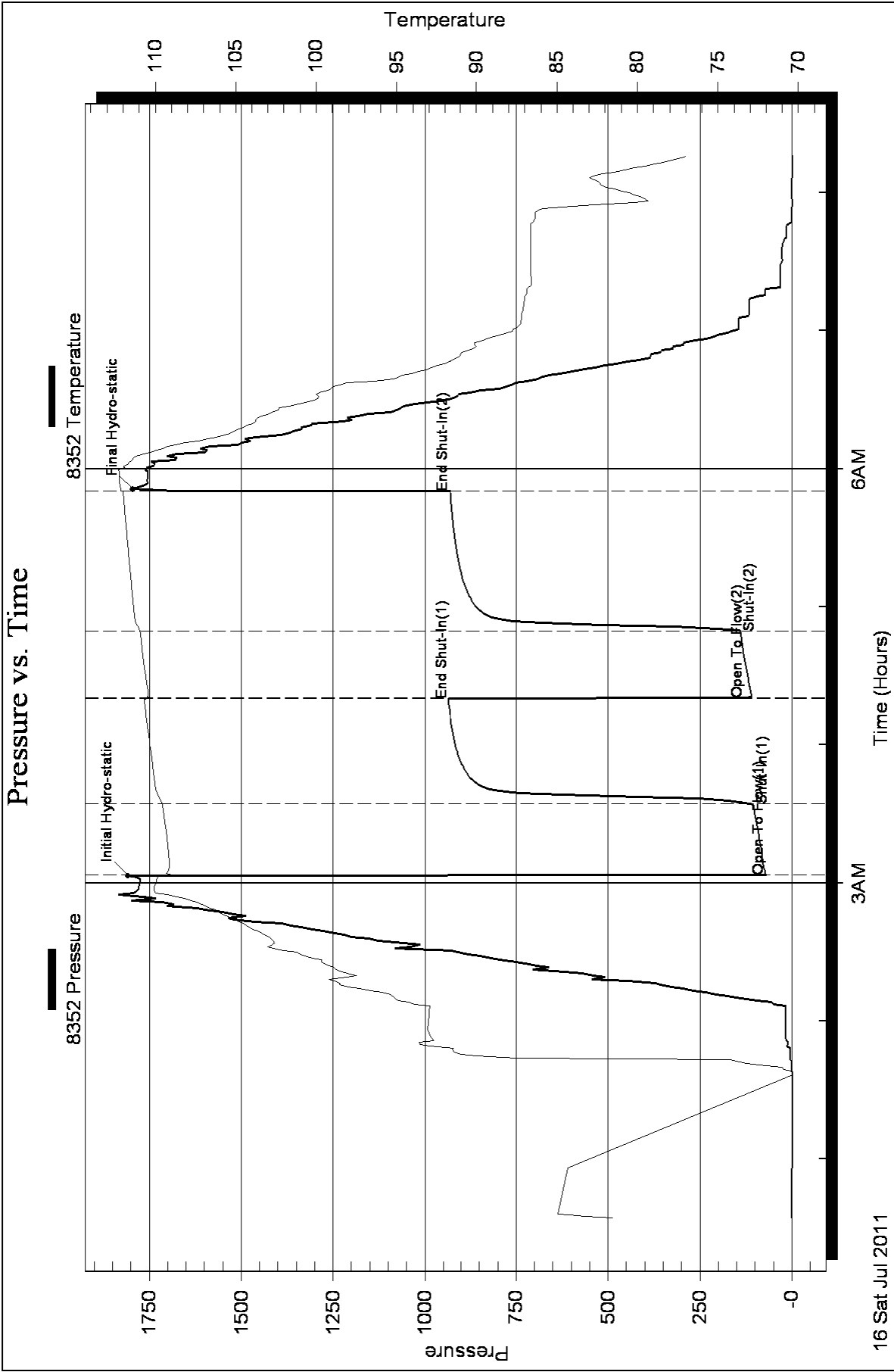
Mud Type: Gel Chem	Cushion Type:	Oil API: 33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 2800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GO, 10%G, 90%O	0.870
62.00	GO, 40%G, 60%O	0.870
62.00	GOCM, 10%O, 20%G, 70%M	0.870
62.00	GMCO, 5%M, 35%G, 60%O	0.870
0.00	17 Stands of G.I.P.	0.000

Total Length: 248.00 ft Total Volume: 3.480 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity: 35 @ 80 Degrees = 33 Gravity





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45182 **DST#: 4**
Test Start: 2011.07.16 @ 16:31:00

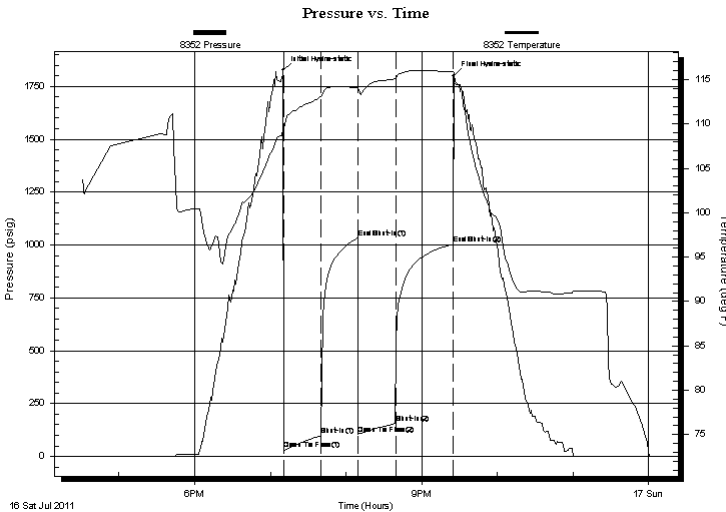
GENERAL INFORMATION:

Formation: **CG Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:10:20
Time Test Ended: 00:01:00
Interval: **3756.00 ft (KB) To 3785.00 ft (KB) (TVD)**
Total Depth: 3785.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Cody Bloedorn
Unit No: 38
Reference Elevations: 2198.00 ft (KB)
2188.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8352 Inside
Press @ Run Depth: 156.36 psig @ 3757.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.07.16 End Date: 2011.07.17 Last Calib.: 2011.07.17
Start Time: 16:31:05 End Time: 00:00:59 Time On Btm: 2011.07.16 @ 19:10:10
Time Off Btm: 2011.07.16 @ 21:25:30

TEST COMMENT: 30 - IF- B.O.B. in 15 Min
30 - IS- Weak surface blow
30 - FF- B.O.B. in 18 Min, 30 Sec.
45 - FS- Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1825.37	109.72	Initial Hydro-static
1	33.06	109.17	Open To Flow (1)
30	98.35	113.08	Shut-In(1)
60	1031.99	114.13	End Shut-In(1)
60	105.80	113.55	Open To Flow (2)
90	156.36	115.07	Shut-In(2)
135	1003.28	115.89	End Shut-In(2)
136	1799.80	115.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMCO, 10%M, 15%G, 75%O	0.87
124.00	GHOCM, 10%M, 50%O, 40%G	1.74
155.00	GO, 5%G, 95%O	2.17

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

Miller #1
19/12s/18w Ellis KS
Job Ticket: 45182 **DST#: 4**
Test Start: 2011.07.16 @ 16:31:00

Mud and Cushion Information

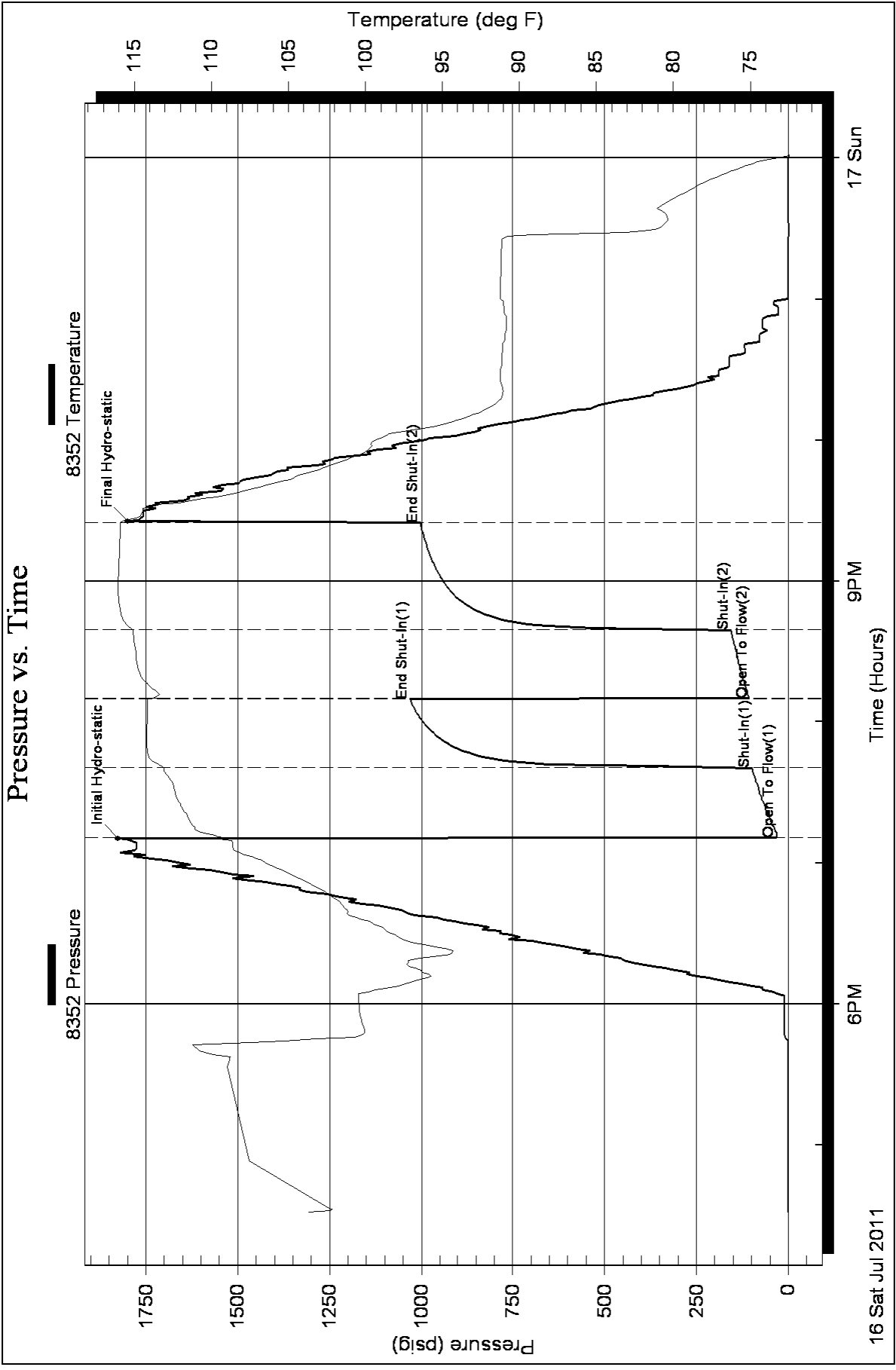
Mud Type: Gel Chem	Cushion Type:	Oil API: 18 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 41.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GMCO, 10%M, 15%G, 75%O	0.870
124.00	GHOCM, 10%M, 50%O, 40%G	1.739
155.00	GO, 5%G, 95%O	2.174

Total Length: 341.00 ft Total Volume: 4.783 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Gravity: 20 @ 80 Degrees = 18 Gravity



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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 26, 2011

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

Re: ACO1
API 15-051-26141-00-00
Miller 1
NE/4 Sec.19-12S-18W
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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 10, 2012

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

Re: ACO-1
API 15-051-26141-00-00
Miller 1
NE/4 Sec.19-12S-18W
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 7/9/2011 and the ACO-1 was received on January 10, 2012 (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