

1061547

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 ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No

Electric Log Run ☐ Yes ☐ No

Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
Name Top Datum

CASING RECORD ☐ New ☐ 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 (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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Eternity Exploration, LLC
Well Name	Betty Werth 2
Doc ID	1061547

Tops

Name	Top	Datum
Anhydrite	2168	+382
Base Anhydrite	2202	+348
Heebner	3767	-1217
Toronto	3788	-1238
Lansing	3806	-1256
Lansing B zone	3834	-1284
Lansing C zone	3845	-1295
Stark Shale	3994	-1444
Base Kansas City	4034	-1484
RTD	4075	-1525



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration

338 Spyglass Drive
Coppell, Tx.
75019
ATTN: Scott Alberg

Betty Werth #2

7 10s 25w Graham Ks

Job Ticket: 43701

DST#: 1

Test Start: 2011.06.17 @ 14:50:00

GENERAL INFORMATION:

Formation: **LKC-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:45:00

Time Test Ended: 22:30:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3764.00 ft (KB) To 3840.00 ft (KB) (TVD)

Total Depth: 3840.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2550.00 ft (KB)

2545.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 218.08 psig @ 3765.00 ft (KB)

Start Date: 2011.06.17

End Date:

2011.06.17

Start Time: 14:50:05

End Time:

22:29:59

Capacity: 8000.00 psig

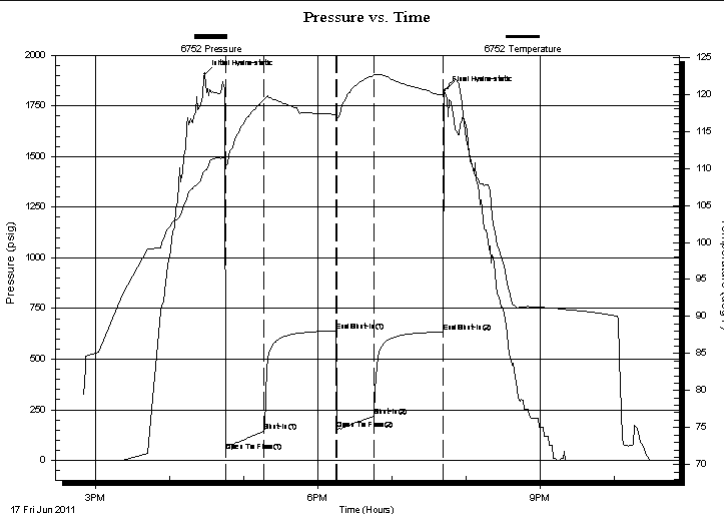
Last Calib.: 2011.06.17

Time On Btm: 2011.06.17 @ 16:28:30

Time Off Btm: 2011.06.17 @ 19:42:30

TEST COMMENT: IF: Strong blow, Built to B.O.B in 5 mins.
IS: Blow back after 1 min. Built to B.O.B in 12 mins.
FF: Strong blow, Built to B.O.B in 4 mins.
FS:

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1905.94	109.70	Initial Hydro-static
17	43.84	110.88	Open To Flow (1)
48	142.70	119.27	Shut-In(1)
106	640.77	117.26	End Shut-In(1)
107	154.50	117.09	Open To Flow (2)
137	218.08	122.60	Shut-In(2)
193	635.01	119.89	End Shut-In(2)
194	1825.52	120.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	HMCO-40% m60%o	0.60
62.00	go-60%40%o	0.87
434.00	g0-30%g70%o	6.09
0.00	2312 ft. gas in pipe	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

Eternity Exploration

Betty Werth #2

338 Spyglass Drive

7 10s 25w Graham Ks

Coppell, Tx.

Job Ticket: 43701

DST#: 1

75019

Test Start: 2011.06.17 @ 14:50:00

ATTN: Scott Alberg

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	HMCO-40% <i>m</i> 60% <i>o</i>	0.600
62.00	<i>g</i> o-60%40% <i>o</i>	0.870
434.00	<i>g</i> 0-30% <i>g</i> 70% <i>o</i>	6.088
0.00	2312 ft. gas in pipe	0.000

Total Length: 618.00 ft

Total Volume: 7.558 bbl

Num Fluid Samples: 0

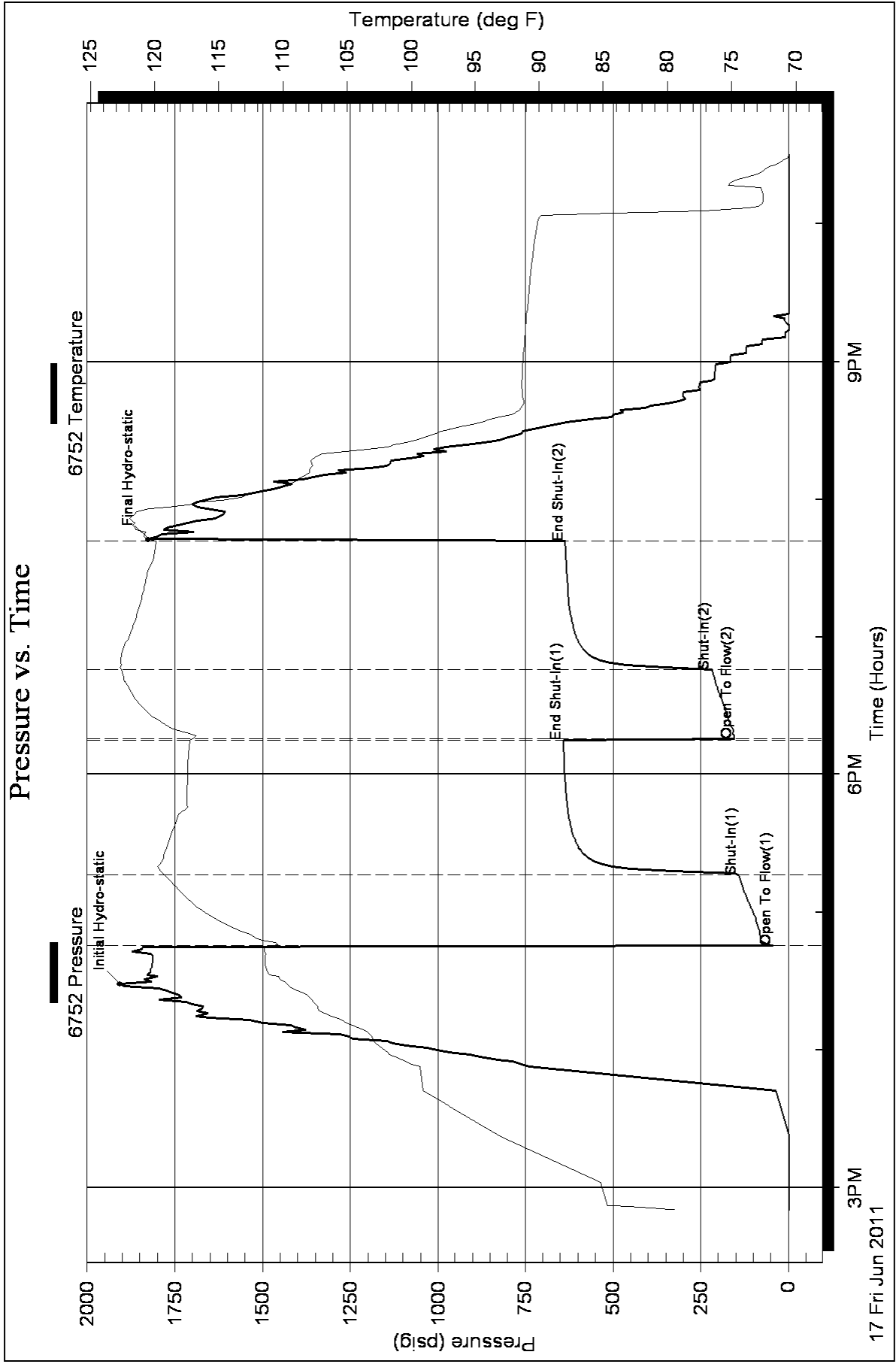
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration

338 Spyglass Drive
Coppell, Tx.
75019
ATTN: Scott Alberg

Betty Werth #2

7 10s 25w Graham Ks

Job Ticket: 43702

DST#: 2

Test Start: 2011.06.18 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC-C,D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:39:30

Time Test Ended: 12:01:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3841.00 ft (KB) To 3865.00 ft (KB) (TVD)

Total Depth: 3865.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2550.00 ft (KB)

2545.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 237.38 psig @ 3842.00 ft (KB)

Start Date: 2011.06.18

End Date:

2011.06.18

Start Time: 05:00:05

End Time:

12:00:59

Capacity: 8000.00 psig

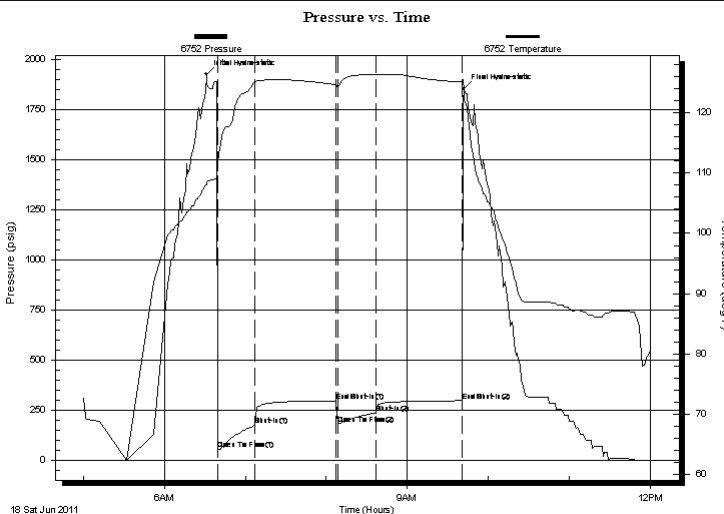
Last Calib.: 2011.06.18

Time On Btm: 2011.06.18 @ 06:31:00

Time Off Btm: 2011.06.18 @ 09:42:00

TEST COMMENT: IF: Strong blow , Built to B.O.B in 30 sec.
IS: Blow back after 1 min. Built to B.O.B in 8 1/2 mins.
FF: Strong blow , Built to B.O.B in 7 1/2 mins.
FS: Blow back after 1min. Built to B.O.B in 15 m

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1923.77	108.12	Initial Hydro-static
9	54.33	111.57	Open To Flow (1)
36	174.83	125.06	Shut-In(1)
97	297.62	124.65	End Shut-In(1)
98	182.43	124.24	Open To Flow (2)
126	237.38	126.29	Shut-In(2)
190	297.70	125.08	End Shut-In(2)
191	1850.94	123.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	gmco-20%g20%m60%o	0.60
248.00	go-30%g70%o	3.48
248.00	go-20%g80%o	3.48
72.00	go-15%g85%o	1.01
0.00	2018 Ft. of gas in pipe	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

Eternity Exploration

Betty Werth #2

338 Spyglass Drive

7 10s 25w Graham Ks

Coppell, Tx.

Job Ticket: 43702

DST#: 2

75019

Test Start: 2011.06.18 @ 05:00:00

ATTN: Scott Alberg

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	gmco-20%g20%m60%o	0.600
248.00	go-30%g70%o	3.479
248.00	go-20%g80%o	3.479
72.00	go-15%g85%o	1.010
0.00	2018 Ft. of gas in pipe	0.000

Total Length: 690.00 ft

Total Volume: 8.568 bbl

Num Fluid Samples: 0

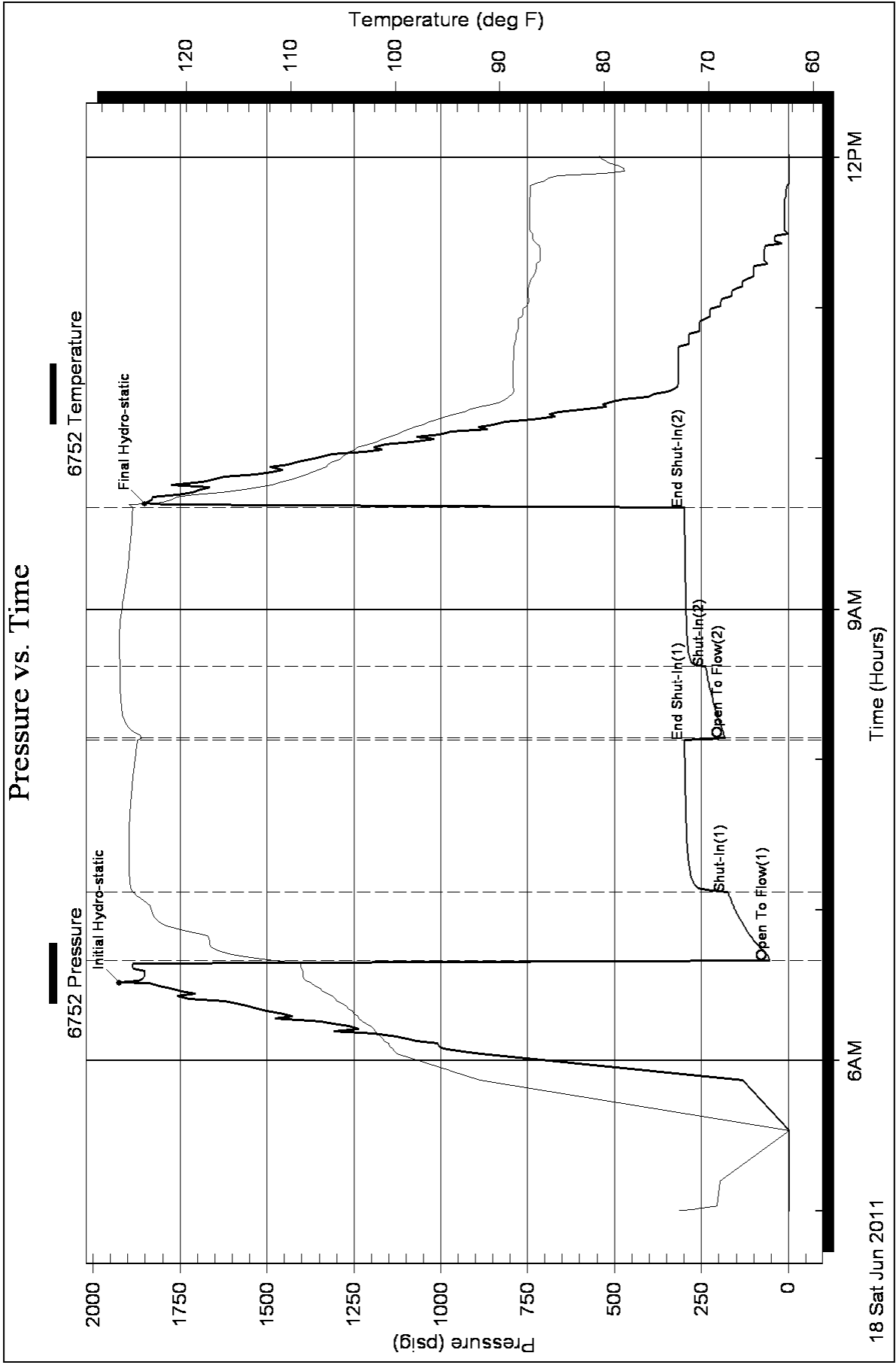
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity-40@78*=38.2





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Eternity Exploration

338 Spyglass Drive
Coppell, Tx.
75019
ATTN: Scott Alberg

Betty Werth #2

7 10s 25w Graham Ks

Job Ticket: 43703

DST#: 3

Test Start: 2011.06.19 @ 05:20:00

GENERAL INFORMATION:

Formation: **LKC-J,K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:04:30

Time Test Ended: 12:40:00

Test Type: Conventional Bottom Hole

Tester: Chuck Kreutzer Jr.

Unit No: 36

Interval: 3976.00 ft (KB) To 4020.00 ft (KB) (TVD)

Total Depth: 4020.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2550.00 ft (KB)

2545.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 342.66 psig @ 3977.00 ft (KB)

Start Date: 2011.06.19

End Date:

2011.06.19

Start Time: 05:20:05

End Time:

12:39:59

Capacity: 8000.00 psig

Last Calib.: 2011.06.19

Time On Btm: 2011.06.19 @ 07:00:00

Time Off Btm: 2011.06.19 @ 10:11:30

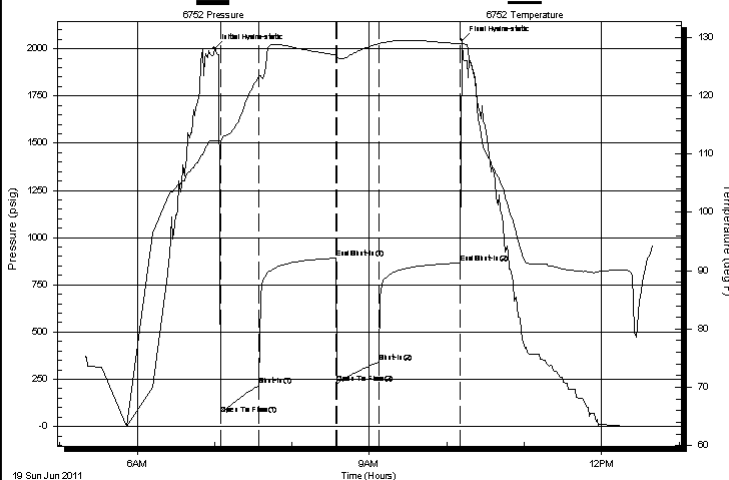
TEST COMMENT: IF: Strong blow, Built to B.O.B in 2 1/2 mins.

IS: Blow back, Built to B.O.B in 10 mins.

FF: Strong blow, Built to B.O.B in 4 mins.

FS: Blow back, Built to B.O.B in 8 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2001.73	112.30	Initial Hydro-static
5	65.52	112.03	Open To Flow (1)
35	217.13	123.29	Shut-In(1)
94	891.43	127.04	End Shut-In(1)
95	231.33	126.74	Open To Flow (2)
128	342.66	128.91	Shut-In(2)
191	865.88	128.87	End Shut-In(2)
192	2044.10	128.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
122.00	mcw-10% m90% w	0.60
120.00	mcw-30% m70% m	1.68
120.00	Hocm-30% o70% m	1.68
310.00	go-20% g80% o	4.35
0.00	1798 ft. gas in pipe	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

Eternity Exploration

Betty Werth #2

338 Spyglass Drive

7 10s 25w Graham Ks

Coppell, Tx.

Job Ticket: 43703

DST#: 3

75019

Test Start: 2011.06.19 @ 05:20:00

ATTN: Scott Alberg

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: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
122.00	mcw -10% m90% w	0.600
120.00	mcw -30% m70% m	1.683
120.00	Hocm -30% o70% m	1.683
310.00	go -20% g80% o	4.348
0.00	1798 ft. gas in pipe	0.000

Total Length: 672.00 ft

Total Volume: 8.314 bbl

Num Fluid Samples: 0

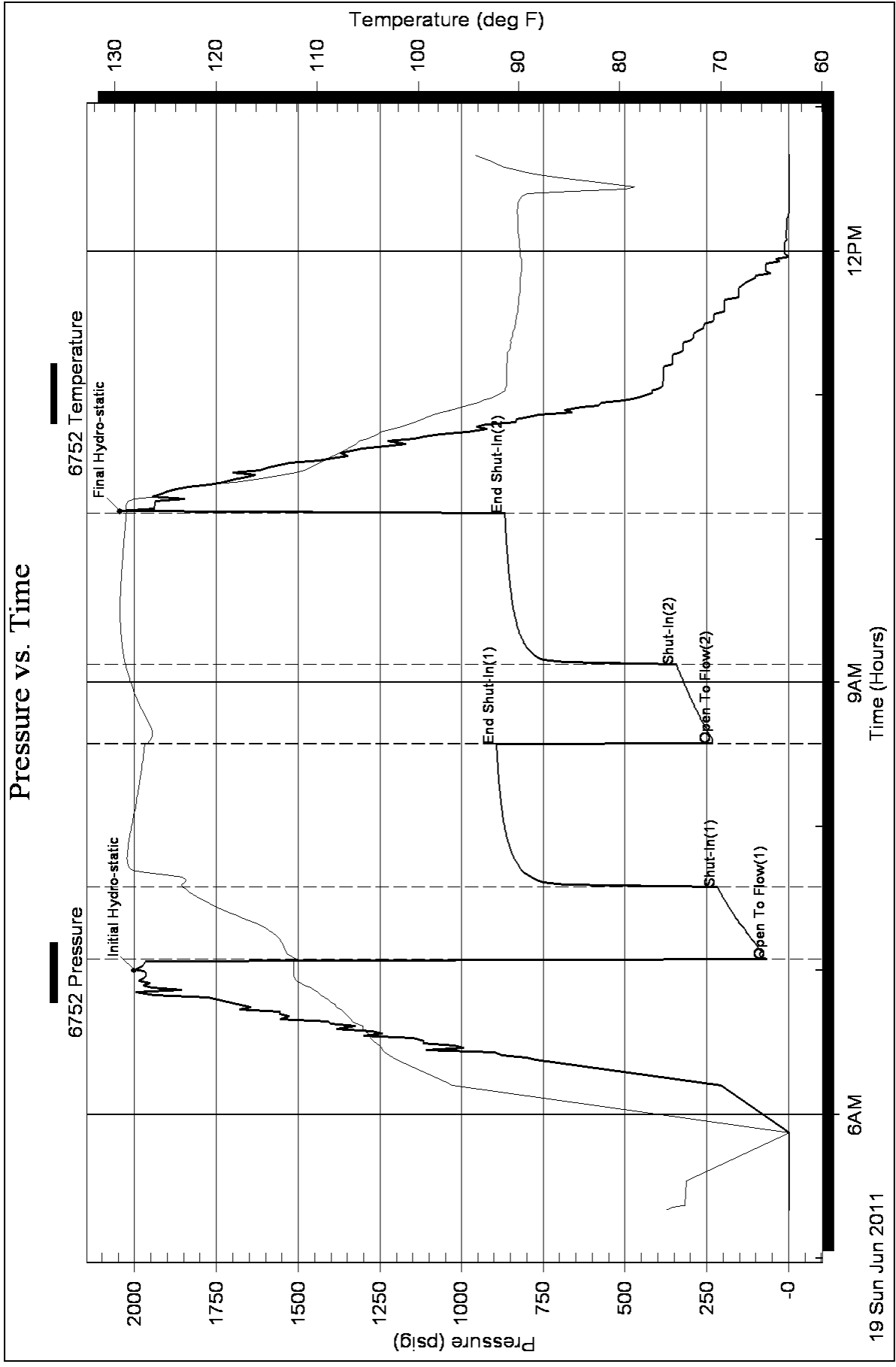
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

August 16, 2011

Carlo A. Ugolini
Eternity Exploration, LLC
338 Spyglass Dr
Coppell, TX 75019-5430

Re: ACO1
API 15-065-23715-00-00
Betty Werth 1
NE/4 Sec.07-10S-25W
Graham County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well Betty Werth #2 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,
Carlo A. Ugolini

REMIT TO
RR 1 BOX 90 D
HOXIE KS 67740

SCHIPPERS OIL FIELD SERVICE L.L.C.

508

DATE <u>6/14/11</u>	SEC. <u>7</u>	RANGE/TWP. <u>10-25</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00</u>	JOB FINISH <u>4:00</u>
LEASE <u>Body Wells</u>			WELL # <u>2</u>	COUNTY	STATE	

CONTRACTOR <u>WWU</u>	OWNER <u>Etc.</u>			
TYPE OF JOB				
HOLE SIZE <u>9 1/2"</u>	T.D. <u>2250</u>	CEMENT	<u>165</u>	
CASING SIZE <u>8 5/8"</u>	DEPTH	AMOUNT ORDERED		
TUBING SIZE	DEPTH			
DRILL PIPE <u>4 1/2"</u>	DEPTH			
TOOL	DEPTH			
PRES. MAX	MINIMUM	COMMON	<u>165</u>	@ <u>1.12</u>
DISPLACEMENT <u>1325 bbl</u>	SHOE JOINT	POZMIX	<u>3</u>	@ <u>20.00</u>
CEMENT LEFT IN CSG.		GEL	<u>3</u>	@ <u>20.00</u>
PERFS		CHLORIDE	<u>5</u>	@ <u>52.00</u>
		ASC		@
EQUIPMENT				@
				@
PUMP TRUCK				@
#				@
BULK TRUCK				@
#				@
BULK TRUCK				@
#				@
				@
		HANDLING	<u>175</u>	@ <u>16.57</u>
		MILEAGE	<u>31</u>	@ <u>482.67</u>
		TOTAL		

REMARKS <u>Plug down @ 5:45 PM</u>	SERVICE <u>Surf</u>		
	DEPT OF JOB	@	
	PUMP TRUCK CHARGE	@	<u>950.00</u>
	EXTRA FOOTAGE	@	<u>1.12</u>
	MILEAGE <u>31</u>	@	
	MANIFOLD	@	
		@	
	TOTAL		

CHARGE TO: <u>Etc.</u>	
STREET	STATE
CITY	ZIP

To: Schippers Oil Field Service LLC

You are hereby requested to rent cementing equipment and furnish staff to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
	TOTAL
TAX	
TOTAL CHARGE	
DISCOUNT (IF PAID IN 20 DAYS)	

SIGNATURE

PRINTED NAME



Services, Inc.

CHARGE TO: SECURITY EXPENDITURE
ADDRESS
CITY, STATE, ZIP CODE

TICKET
19700

PAGE 1 OF 2

SERVICE LOCATIONS
1. HAYS WELL/PROJECT NO. 2 LEASE BERRYBERRY COUNTY/PARISH CAHILLAN STATE 18 CITY DATE 06-20-11 OWNER
2. NESS TICKET TYPE CONTRACTOR RIG NAME/NO. WILDLIFE 10 SHIPPED TO NEW STATE ORDER NO.
3. WELL TYPE SALES WELL CATEGORY DEVELOP JOB PURPOSE 25YR WELL PERMIT NO. 15-065-23712 WELL LOCATION 57100025
4. REFERRAL LOCATION INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	LOC	ACCT	DT	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575		1			MILEAGE #112	60	MI			5.00	300.00
579		1			Pump Service	1	EA			1750.00	1750.00
580		1			MOD TO WORK HAS	2	YRS			200.00	400.00
581		1			LABORER	4	HR			25.00	100.00
590		1			MATERIAL	500	LB			1.00	500.00
402		1			D-41K	3	HR			35.00	105.00
403		1			CERTIFIED	8	EA	5 1/2	HR	65.00	520.00
407		1			DRILL	2	EA			230.00	460.00
408		1			Insert Form Shoe Thru Site	1	EA			300.00	300.00
411		1			DU TOOL	1	EA			2750.00	2750.00
417		1			Recip Sawcutter	24	EA			45.00	1080.00
		1			DU TOOL	1	EA			200.00	200.00
LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.						REMIT PAYMENT TO:					
MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.						SWIFT SERVICES, INC.					
DATE SIGNED <u>06-20-11</u> TIME SIGNED <u>0500</u> <input type="checkbox"/> A.M. <input type="checkbox"/> P.M.						P.O. BOX 466					
X <u>David Bell</u>						NESS CITY, KS 67560					
						785-798-2300					
						OUR EQUIPMENT PERFORMED WITHOUT BREACH/DOWN? <input type="checkbox"/>					
						WE UNDERSTOOD AND MET YOUR NEEDS? <input type="checkbox"/>					
						OUR SERVICE WAS PERFORMED WITHOUT DELAY? <input type="checkbox"/>					
						WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS? <input type="checkbox"/>					
						ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO					
						OUR CUSTOMER DID NOT WISH TO RESPOND <input type="checkbox"/>					
						TOTAL					

SWIFT OPERATOR David Bell APPROVAL Thank You!



TICKET
No. 19700

[illegible]

JOB LOG

SWIFT Services, Inc.

DATE 06-20-11 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
ETERNITY EXPLORATION		2		BETH WORTH		2-STAGE		19700	
CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0500							ON LOCATION	
								CMT: BOTTOM 175 STD EA-2	
								TOP 225 STD	
								RED 4077 SET PIPE 4076 SJ 20.62 TRNG 4055	
								5 1/4" D.V. 2" TOP # 46, 2174 FT	
								CENT 3, 4, 5, 6, 7, 8, 9, 45 BSH 9-46	
								REG. DISCATCHERS 3-8 4CA, 24" IN	
								JOINS OUT 21, 22, 100, BETWEEN 7-8 MANUEL 19.09	
	0800							START CSL-PE	
	0915							TAG BOTTOM DROP 202L	
	0920							BREAK CIRC - RECIPROCATING PIPE	
	1040	5.0	12		-		200	MUD FLUSH	
			20		-			MUD FLUSH	
			41.5		-			175 EA-2	
								WASH PL, DROP LO PLUG	
	1055	6.5	0		-		200	START DSG 1/4" 20	
			46.0		-		5	" " 1/4" 20	
			90.0		-		500		
			95.0		-		600		
	1110		99.0		-		1400	LAND PLUG - RELEASE	
								DROP D.V. OPENING DART	
	1115				-		1100	OPEN D.V. CIRC - 2115	
	1245		7					PLUG RH 20525	
	1250	7.5	20		-		300	MUD FLUSH	
			108		-		5	STD	
								DROP IN CLOSING DART	
		7.5	0		-		300	START DSG	
			20		-		300		
			50		-		300	CMT IN CIRC	
	1315		53		-		1400	LAND & CLOSE D.V.	
								RELEASE DRY	
	1430							JOB COMPLETE	
								THANK YOU!	
								DAVE, JOSH, JOE	