

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1213707

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15				
Name:	Spot Description:				
Address 1:	SecTwpS. R				
Address 2:	Feet from North / South Line of Section				
City: State: Zip:+	Feet from _ East / _ West Line of Section				
Contact Person:	Footages Calculated from Nearest Outside Section Corner:				
Phone: ()	□NE □NW □SE □SW				
CONTRACTOR: License #	GPS Location: Lat:, Long:				
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:				
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:	Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: Feet Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet				
Operator:	If Alternate II completion, cement circulated from:				
Well Name: Original Total Depth: Original Total Depth:	feet depth to: w/ sx cmt. Drilling Fluid Management Plan				
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)				
Commingled Permit #: Dual Completion Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used:				
☐ SWD Permit #:	Location of fluid disposal if hauled offsite:				
ENHR Permit #:	Operator Name:				
GSW Permit #:	Lease Name: License #:				
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West County: Permit #:				

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY	
Confidentiality Requested	
Date:	
Confidential Release Date:	
Wireline Log Received	
Geologist Report Received	
UIC Distribution	
ALT I II III Approved by: Date:	



Operator Name:			Lease Name: _			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. Cures, whether shut-in prediction of the pre	essure reached stat	ic level, hydrosta	tic pressures, bot		
		otain Geophysical Data a or newer AND an image		ogs must be ema	illed to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taker (Attach Additional S		Yes No			on (Top), Depth ar		Sample
Samples Sent to Geo	logical Survey	Yes No	Nam	ie		Тор	Datum
Cores Taken ☐ Yes ☐ No Electric Log Run ☐ Yes ☐ No							
List All E. Logs Run:							
		CASING	RECORD No	ew Used			
		Report all strings set-			ion, 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 / SQL	IEEZE RECORD			
Purpose:	Depth Top Pottors	Type of Cement	# Sacks Used	TELECTION IN	Type and P	ercent Additives	
Perforate Protect Casing Plug Back TD	Top Bottom						
Plug Off Zone							
	ulic fracturing treatment or			Yes		p questions 2 ar	nd 3)
		aulic fracturing treatment ex submitted to the chemical of	_	?	= ' '	p question 3) out Page Three	of the ACO-1)
Shots Per Foot		N RECORD - Bridge Plug ootage of Each Interval Perl			cture, Shot, Cement		d Depth
	.,,			,		,	
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No		
Date of First, Resumed	Production, SWD or ENF	HR. Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	Oil B		Mcf Wat			Sas-Oil Ratio	Gravity
	ON OF GAS:	N Open Hole	METHOD OF COMPLI		mmingled	PRODUCTIO	DN INTERVAL:
Vented Sold	Used on Lease	Other (Specify)	Perf Dually (Submit)		mmingled mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	David Worcester Unit 1-13
Doc ID	1213707

Tops

Name	Тор	Datum		
Anhydrite	1790	+375		
Base Anhydrite	1821	+344		
Topeka	3157	-992		
Heebner	3366	-1201		
Toronto	3389	-1224		
Lansing	3406	-1241		
Base Kansas City	3597	-1432		
Arbuckle	3762	-1597		
Total Depth	3793	-1628		

Form	ACO1 - Well Completion
Operator	Baird Oil Company LLC
Well Name	David Worcester Unit 1-13
Doc ID	1213707

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	219	Standard	160	3%cc,2%g el

Global Cementing LLC

18048 I-70 Road Russell, KS 67665

785-324-2658

785-445-3526

Invoice

Date	Invoice #
5/12/2014	1325

Bill To		
BAIRD OIL COMPAN PO BOX 428 LOGAN,KS 67646	NY LLC	

P.O. No.	Terms	Project
DAVID WORCES	Net 30	

Quantity			Description			Rate		Amount
160 6 4 170						4	15.50 53.00 23.50 2.10 455.60	2,480.00 318.00 94.00 357.00 455.60 1,050.00 435.50
67	PICKUP DEDUCT 15 GRAHAM C	5% FROM TOTAL IF P CO	AID WITHIN 30 DA	AYS OF INVOICE		7.	2.50	0.00
			R 5/20 P5/20/ Savid Worces Sement & other Surface casing	2019 190402 538 Ster Unit 1-13 or misc used t	57,60 - Pump 0 Cepus	charge, n+ 5/2/20 CK#144	169	
Thank you for yo	ur business.	Fax#	E-	mail		Total		\$5,357.60

GLOBAL CEMENTING, L.L.C.

REMIT TO

18048 170RD

RUSSELL, KS 67665

SERVICE POINT

	SEC.	TWP.	RANGE	CALI	LED OUT	ON LOCATION	JOB START	JOB FINISH_
DATE 5-12-14	SEC.	1 111	KANGL			The Control of the Park	5:150A	5:45pm
A -11	1	13					COUNTY	STATE
LEASE worcester	WELL#.	-1-	LOCATION				Graham	
OLD OR NEW (CIRC	CLE ONE)			Link of		in De Hiller	H. H. C. A.	
CONTRACTOR W	(1) O	rilling			OWNER			
	eice	111111						
HOLE SIZE 17/2	1	T.D	. 220		CEMENT	,		00/11
CASING SIZE		DE	PTH 210		AMOUNT ORD	ERED /60	SX com	3/OCC
TUBING SIZE			PTH		2% gel			
DRILL PIPE			PTH	on seden				
TOOL		DE	PTH					
PRES. MAX		MI	NIMUM		COMMON		(a)	3 3 4
MEAS. LINE		SH	OE JOINT					
CEMENT LEFT IN CSG.	204+				GEL	L Selfent Solution	(a)	
PERFS		English with the	五位 三十二		CHLORIDE		<u>@</u>	
DISPLACEMENT /	13/4							
	EQUIPME	NT					(a)	
		,					<u>@</u>	
PUMP TRUCK CE	MENTER	Heath					@	
# P/ HE	LPER	de					@	
BULK TRUCK		2.00					@	
# BI DR	IVER /	3100					<u>a</u>	
BULK TRUCK							<i>a</i>	
# DR	IVER						@	
					HANDLING		@	
					MILEAGE			
	REMA	ARKS:					TOTAL	
Ran 5 Its on	£ 85/8	2 casing	and landin	1914				
11011		.)				ÇF.	RVICE	
FSt Circulati	on win	the much	2 Dumo			SL.	KVICL	
			/ /	111	DEPTH OF JOB			
Hook up and	mix 16	DSX CV	18 disp 12	3/4/26/		CHARGE		
69 H26 - Shu	Ling	30005	1			GE		
	0	/			MILEAGE	07	(a)	
Cement Dic	X CI	culate			MANIFOLD		(a)	
							(a)	
^ .	^ ^	- 1					@	
CHARGE TO: BOUT	-d 0	1 1						
STREET							TOTAL	
011001								
CITY	_STATE	ZII)			PLUG & FLO	AT EQUIPMEN	JT
						TEOG WIE	THE EQUIT WIE	
Global Cementing, I				1			<u>a</u>	
You are hereby req							<u>a</u>	
furnish cementer and							<u>a</u>	
do work as is listed.							<u>a</u>	
and supervision of cunderstand the "GI							<u>a</u>	
		TERIVIS A	ND CONDITIO	NS				
listed on the reverse	side.	20					TOTAL	
(1	1 1	4	1.1					
PRINTED NAME	1101A /1	Banens	1186		SALES TAX (If	Any)		
1)	0 11	/			TOTAL CHARC	GES		
SIGNATURE	in / a	and the			TOTAL CHARC	JE3		
	1				DISCOUNT			IF PAID IN 30 DAYS

Global Cementing LLC

18048 I-70 Road Russell, KS 67665

785-324-2658

785-445-3526

Invoice

Date	Invoice #
5/17/2014	1336

Bill To	
BAIRD OIL COMPANY LLC PO BOX 428 LOGAN,KS 67646	

P.O. No.	Terms	Project
DAVID WORCES	Net 30	

Quantity			Description		Rate	Amount
102 9 64	COMMON POZ GEL FLO-SEAL HANDLING				15.50 8.50 23.50 2.00 2.10	2,371.50 867.00 211.50 128.00 554.40
		EAGE PUMP CHARGE FOR CK MILEAGE	PLUG		696.96 1,200.00 6.50 2.50	1,200.00 429.00 165.00
	8 5/8 WOOD) PLUG			57.50	57.50
	DEDUCT 15 GRAHAM C		PAID WITHIN 30 DAYS OF INVOICE	CE	7.15%	0.00
			RS129/2014 PS/30/2014 David W 190402 David Worcester Unit Coment & other misc.	6680,86 1-13-Pump Used to p	charge, lug well	
nank you for you	ur business.	Fax#	E-mail		Total	\$6,680.86

GLOBAL CEMENTING, L.L.C.

REMIT TO

18048 170RD

SERVICE POINT:

RU	ISSELL, K	(5 6/665					
DATE 5-17-14	SEC.	TWP.	RANGE 22 W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
Danid	1)	112				COUNTY	STATE
LEASE Worcester	WELL#.	1-13	LOCATION			Graham	113
OLD OR NEW (CIRC	CLE ONE)						
CONTRACTOR WA	, 4/2			OWNER 8	and Dil		
TYPE OF JOB Rola		9					
HOLE SIZE 77/8	1	T.I		CEMENT	255	Intern	40//1
CASING SIZE			EPTH	AMOUNT OF	RDERED 255	64 40	1 10 001
TUBING SIZE DRILL PIPE 4/2			EPTH 3795		16/5k 1-10.	-5001	
TOOL			EPTH				
PRES. MAX			NIMUM	COMMON_	153	0	
MEAS. LINE			IOE JOINT	POZMIX	102	@	
CEMENT LEFT IN CSG.				GEL	9	@	
PERFS				CHLORIDE _		@	
DISPLACEMENT				ASC		@	
	EQUIPME	ENT		F10-5	ed 64/65.	0	
DIA CO EDILICIA	A (E) ITED			-		@	
,	MENTER _ LPER					@	
BULK TRUCK	LPEK					_ @	
	IVER					_ @ _ @	
BULK TRUCK						@	
	IVER						
				HANDLING_			
				MILEAGE			
	REM	ARKS:				TOTA	L
50 sks @	in .						
25 sks @	180	7'			SF	RVICE	
100 365 0	1007	, ,			SE.	RVICE	
40 sds @	269	7 /		DEPTH OF JO)B		
10 sks a	40'	,		PUMP TRUCE	K CHARGE		
30 565 -1	Rat ho	10			TAGE	<u>a</u>	
255 5ks				MILEAGE		@	
6 2 2 2 ES				MANIFOLD -		- @ ————	
						- @ ————	
CHARGE TO: Ba	cod	01/6	SHOGHU			- @ ————	
CHARGE TO:	(11 00	al red			TOTA	L
STREET						TOTAL	
CITY	_STATE	ZI	P		DI LIC & ELO	AT EQUIDME	NT
					PLUG & FLO	AT EQUIPME	INI
Global Cementing, I				8 3/8	Plas		
You are hereby req							
furnish cementer and do work as is listed.				1			
and supervision of o	owner age	nt or contra	ctor. I have read and	1			
understand the "GI	ENERAL	TERMS A	ND CONDITIONS'	,		_ @	
listed on the reverse	side.					TOTA	L_
/	7,	Do				TOTA	
PRINTED NAME	4/011	/ Maas	75/1/	SALESTAX	(If Any)		
1	0/1	}	<)		RGES		
SIGNATURE	and of	come					
	0			DISCOUNT_			IF PAID IN 30 DAYS



Prepared For: **Baird Oil Comapny LLC**

> PO Box 428 Logan KS 67646

ATTN: Rich Bell

13-07s-22w Graham,KS

David Worcester Unit #1-13

Start Date: 2014.05.16 @ 16:44:20 End Date: 2014.05.16 @ 22:29:40 Job Ticket #: 58935 DST#: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

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



Baird Oil Comapny LLC

PO Box 428

Logan KS 67646

ATTN: Rich Bell

David Worcester Unit #1-13

13-07s-22w Graham,KS

Job Ticket: 58935 DST#: 1

Test Start: 2014.05.16 @ 16:44:20

GENERAL INFORMATION:

Formation: LKC F&G

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:40 Time Test Ended: 22:29:40

3460.00 ft (KB) To 3504.00 ft (KB) (TVD) Interval:

Total Depth: 3795.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good Hole Diameter:

Test Type: Conventional Straddle (Initial)

Tester: Tate Lang

Unit No:

49

Reference Elevations:

2165.00 ft (KB)

2157.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8898

Press@RunDepth:

Start Date:

Start Time:

Outside

70.53 psig @ 2014.05.16

16:44:21

3463.00 ft (KB) End Date:

End Time:

2014.05.16 22:29:40

Capacity: Last Calib.: 8000.00 psig

Time On Btm:

2014.05.16 2014.05.16 @ 18:18:30

Time Off Btm:

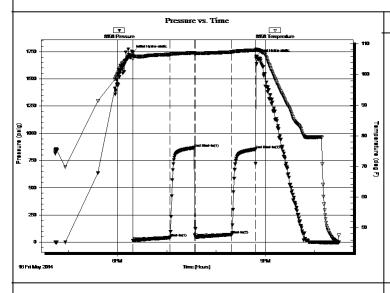
2014.05.16 @ 20:48:30

TEST COMMENT: Weak surface blow built to 2 3/4"

Dead no blow back

Weak surface blow built to 1/4 in

Dead no blow back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1742.42	106.21	Initial Hydro-static
1	14.85	105.06	Open To Flow (1)
46	43.05	106.55	Shut-In(1)
75	867.45	107.09	End Shut-In(1)
77	48.32	106.89	Open To Flow (2)
121	70.53	107.33	Shut-In(2)
150	853.94	107.94	End Shut-In(2)
150	1707.25	108.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 10%W 90%M	0.61

Gas Rates

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

Trilobite Testing, Inc Ref. No: 58935 Printed: 2014.05.20 @ 11:56:27



Baird Oil Comapny LLC

13-07s-22w Graham,KS

David Worcester Unit #1-13

Tate Lang

2157.00 ft (CF)

49

PO Box 428 Logan KS 67646

ATTN: Rich Bell

Job Ticket: 58935 **DST#:1**

Test Start: 2014.05.16 @ 16:44:20

Tester:

Unit No:

GENERAL INFORMATION:

Formation: LKC F&G

Interval:

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 18:18:40
Time Test Ended: 22:29:40

3460.00 ft (KB) To 3504.00 ft (KB) (TVD) Reference Elevations: 2165.00 ft (KB)

Total Depth: 3795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8897 Inside

 Press@RunDepth:
 psig
 @
 3463.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2014.05.16 End Date: 2014.05.16 Last Calib.: 2014.05.16

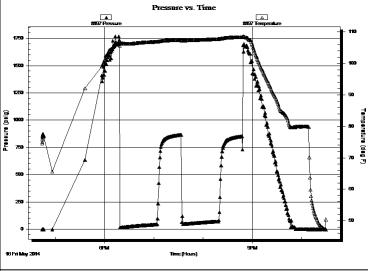
Start Time: 16:44:13 End Time: 22:29:32 Time On Btm: Time Off Btm:

TEST COMMENT: Weak surface blow built to 2 3/4"

Dead no blow back

Weak surface blow built to 1/4 in

Dead no blow back



PRESSURE SU	JMMARY
-------------	--------

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
7				
킇				
Temperature (deg F)				
Ē				
J				

Recovery

Description	Volume (bbl)
120.00 WCM 10%W 90%M	
	·

Gas Rates

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

Trilobite Testing, Inc Ref. No: 58935 Printed: 2014.05.20 @ 11:56:27



Baird Oil Comapny LLC

David Worcester Unit #1-13

PO Box 428 Logan KS 67646 13-07s-22w Graham,KS

Job Ticket: 58935

DST#: 1

ATTN: Rich Bell

Test Start: 2014.05.16 @ 16:44:20

GENERAL INFORMATION:

Formation: LKC F&G

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:18:40 Time Test Ended: 22:29:40

Interval: 3460.00 ft (KB) To 3504.00 ft (KB) (TVD)

Total Depth: 3795.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good Test Type: Conventional Straddle (Initial) Tate Lang Tester:

49 Reference Elevations:

2165.00 ft (KB)

2157.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8354 Below (Straddle)

Press@RunDepth: 3511.00 ft (KB) 8000.00 psig psig @ Capacity: Start Date: 2014.05.16 End Date: 2014.05.16 Last Calib.: 2014.05.16

Start Time: 16:44:34 End Time: 22:29:33 Time On Btm:

Time Off Btm:

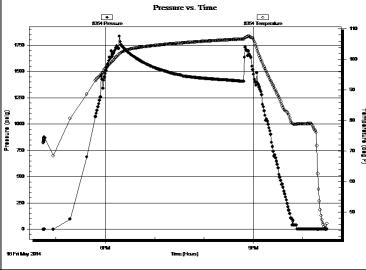
Unit No:

TEST COMMENT: Weak surface blow built to 2 3/4"

Dead no blow back

Weak surface blow built to 1/4 in

Dead no blow back



PRESSURE SUMMARY

	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Tamparatura (dag F)				
3				

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 10%W 90%M	0.61

Gas Rates

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

Trilobite Testing, Inc Ref. No: 58935 Printed: 2014.05.20 @ 11:56:27



TOOL DIAGRAM

Baird Oil Comapny LLC

13-07s-22w Graham,KS

PO Box 428 Logan KS 67646

David Worcester Unit #1-13

Test Start: 2014.05.16 @ 16:44:20

ATTN: Rich Bell

Job Ticket: 58935 DST#: 1

Tool Information

Drill Pipe: Length: 3324.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar: Length: 118.00 ft Diameter: 3.80 inches Volume: 46.63 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 0.58 bbl

47.21 bbl

Total Volume:

Tool Weight: 2200.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 75000.00 lb

Drill Pipe Above KB: 9.00 ft Depth to Top Packer: 3460.00 ft Tool Chased 0.00 ft String Weight: Initial 54000.00 lb

Depth to Bottom Packer: 3504.00 ft Interval between Packers: 44.00 ft Final 54000.00 lb

365.00 ft Tool Length:

Number of Packers: 3 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3438.00		
Hydraulic tool	5.00			3443.00		
Jars	5.00			3448.00		
Safety Joint	2.00			3450.00		
Packer	5.00			3455.00	27.00	Bottom Of Top Packer
Packer	5.00			3460.00		
Stubb	1.00			3461.00		
Perforations	2.00			3463.00		
Recorder	0.00	8897	Inside	3463.00		
Recorder	0.00	8898	Outside	3463.00		
Change Over Sub	1.00			3464.00		
Drill Pipe	29.00			3493.00		
Change Over Sub	1.00			3494.00		
Perforations	5.00			3499.00		
Blank Off Sub	1.00			3500.00		
Blank Spacing	4.00			3504.00	44.00	Tool Interval
Packer	5.00			3509.00		
Stubb	1.00			3510.00		
Perforations	1.00			3511.00		
Recorder	0.00	8354	Below	3511.00		
Change Over Sub	1.00			3512.00		
Drill Pipe	282.00			3794.00		
Change Over Sub	1.00			3795.00		
Bullnose	3.00			3798.00	294.00	Bottom Packers & Anchor
Total Tool Length	365.00					

Trilobite Testing, Inc Ref. No: 58935 Printed: 2014.05.20 @ 11:56:28



FLUID SUMMARY

Baird Oil Comapny LLC

David Worcester Unit #1-13

PO Box 428 Logan KS 67646 13-07s-22w Graham,KS

Job Ticket: 58935

Serial #:

DST#: 1

ATTN: Rich Bell

Test Start: 2014.05.16 @ 16:44:20

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

7.19 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1900.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
120.00	WCM 10%W 90%M	0.608

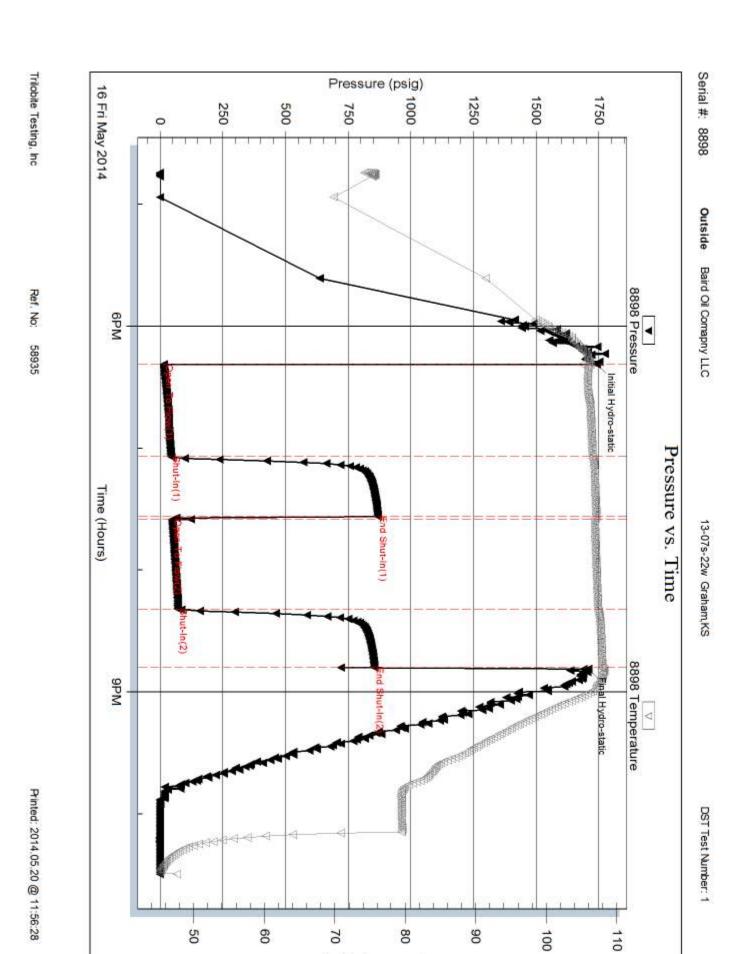
Total Length: 120.00 ft Total Volume: 0.608 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

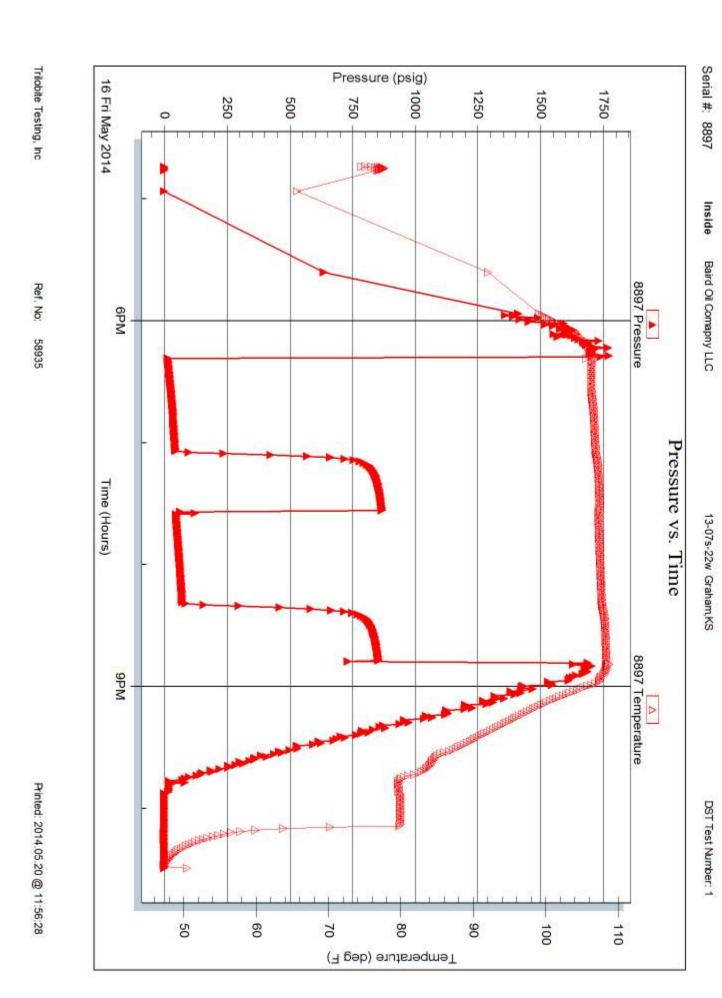
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 58935 Printed: 2014.05.20 @ 11:56:28



Temperature (deg F)



50

60

70

80

Temperature (deg F)

90

Serial #: 8354

Below (Strabbitte Di Comapny LLC

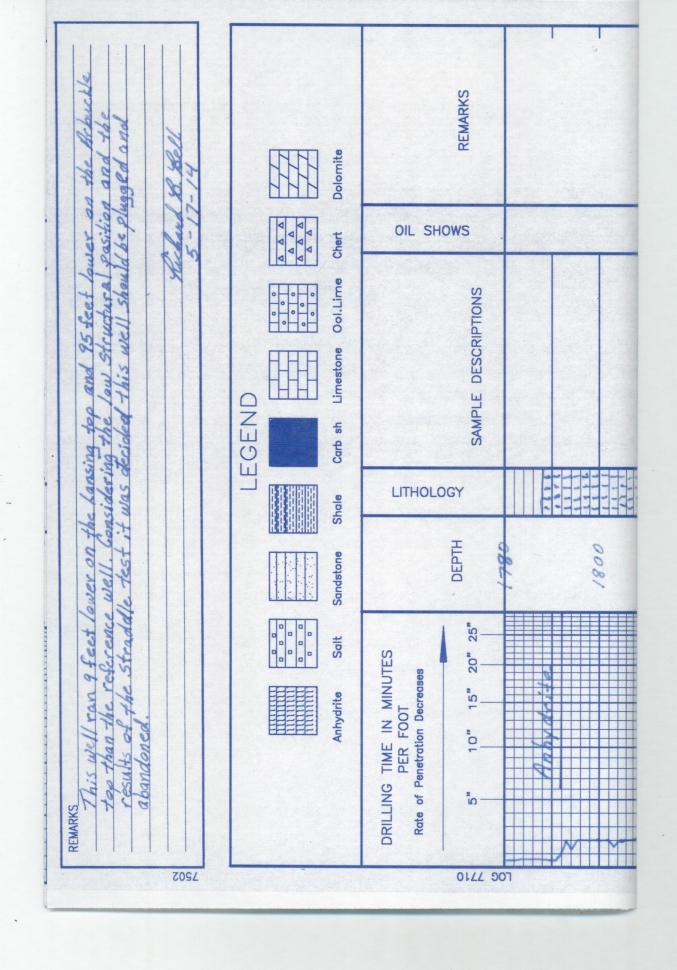
13-07s-22w Graham,KS

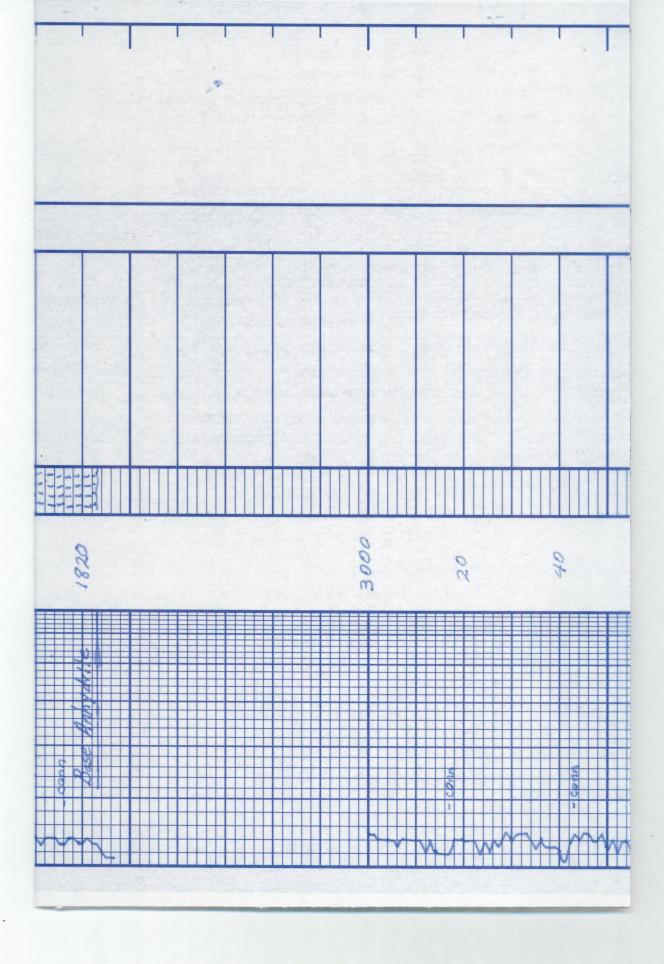
DST Test Number: 1

100

110

H	APT# 15-065-	24035	-00-00)				
	G	EOLO DRILLIN	G I C A	AL RE	POR E LOG	T		
	COMPANY <u>Baird</u> C LEASE <u>David Wo</u> FIELD <u>Worcesto</u>	KB	216 216					
	SEC 13 TW.	GL	215 hs Med (B Dr	7'	d From			
CONTRACTOR Ww Drilling Rig #12 SPUD 5-12-14 COMP 5-16-14 Surface Production								
	SAMPLES SAVED FR	ROM_3/2	20'_TO_	R.T.D	Charles E. Dick Co. House, Co.	bor	IIC LO	GS
	FORM	MATION TO	OPS AND	STRUCTURA	L POSIT	TION		
	FORMATION	SAMPLE	E. LOG	DATUM /09	A	В	С	D
	Anhydrite. Base Anhydrite.	1792	1790	+ 375	+ 373 + 342			
	Topeka. Heebner Toronto Lansing		3366 3389 3406	- 1224				
	Base Kansas City Arbuckle	3765	3762	-1597	-1502			
-	Total Depth	3795		CE WELLS	-1528			





	Samples are lagged good Samples						
		1.5= tn-gry \$514 dus	LS:tn-gryfs1f dns S16stanc:gry	18: tn-gny 4s14 dns	15:tn-gnyfs/f dns	SHSTONE: gry Compol ingm	15: tn-gry fslf dns 54: brn + gry
09	0.8	3100			C+		
	**************************************		\$ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<i>/~~</i>	dubo		

45: wh to fall dus 45: gay falf dus 45: white gay shi. Chy-falf No vis & N. S. C. Chy-falf	15:70.914 fs 18 das 15:01 to 1.014 febrore 15:0- 2-4 white febrore	aa. ch Dhaa ab ch Dhaa 15:01 to decr. Ch. the	4. 61. 614 Carb 1514 dus 1514 dus 5/45600c: 37	SHStone: brn tgry AS:wh. to fall dos p.5.0.	45:th- gry fs 18 das 54: hen
3200	30	9	3	08	3300
	2				96000

	7										
15: which thingh odl-sub ool dus N.S.a. 54: blk Carb	15: when cky feb pp p	15:wh-tn felt dns	15: Wh -th - Lt. gry Cky-fs/f	a.a. decr. d	ch. RIK Cach	15: In 8518 dns.	5h: gry 5lty + ben	15: whith feeln sli. 001 pr.		15: wh-to Slicky fxln 001-5ub. 001 pp \$ 1.5.0.	LS: Wh to telm das
		-111	4	4				4-18			
00	}	77	2	07	3		2%	3000		.A.	20
m			A		Mean of the second seco		- Comp		A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		

Trilobite Testing Test interval corrected to Rotary depths	DST# 13460-3504" Straddle Test 45.30-45.30 IF: Wk blow inc. to 234" FF: 14" blow	Recovery: 120 wcm HYA: 1742-1707# FP: 15-43/48-70# BHP: 867-854#	Brieny: 1017.		
56:30x 4514 dns 56:30x+brn 15:40x+brn 51:19x4 61k Tony-asph 5th	Sk: gry + bra. 15: wh + to fxln dng Tr tony 0 5to Dol. + to fxln nata URT. pr 14.0 5to	15: wh-to fall dus 4.5.0. L5: wh-to fall dus 4.5.0. L5: wh-to sli. Cky fxln and L9ssincl. inpart & At. 5418	LS:wh-tn slicky-fxln dns & gry LS; wh-tn slicky-fxln dns	54: 614 Carb SAS 4018. 15: 4n-gry 9519 das. 5h: brn 79°4	18:wh-th fxln- Tr slicol Tr 1940 Tr 14 50 to 0 Sh Tr pp FO No odor 15:11-314 518 dns 15:20 40 511 51: 4518 88.
0,h	,C. 09 570		+350da +	30	H, Oh
A A A			AAAAA	Muncie Coeck	

,)	7			7
70 9 6 4. 4. 5. 50 dot 6 feath. 15: 4 4 51. chy-fr. h Tr pr. 75 5mall pop F.O do od ov 5h: ben 4 gry	15: who for sti. chy. from of str. sik soft of str. sik soft sold str. sik soft sold str. sik soft sold str. sik sold str. six sold sold str. six six sold str. six sold sold sold sold sold sold sold sold	shibrn sty 15: wh to aky fall alus	15:41-th film sub 061.	SS: clr-frasted fn.gn Conssi ingram to Tr drk offin NFO sdy 15 when fixin 31 cky inpart of Tr or 14 ofth shibratory Acr, who bea 15: when fixin das
				2
60 7	3100 ×	20	40	09
			-Conn ar	

5h: brn, yel, gry 5h: a a. Te D tn-yel	A + Wea. A Wh. yel. finst asph str x Fo. No odor	shibrn tgry 2 + wea & wh-yel-brn decr. asph stn	Shibrn Slty dear D.	To 15. FA FEIN drs N.S.O.	Doliwhth Extr. Maln inxh & MSO. Doliwh th Skin - mxh	glanc Sple Tr. pyrite sple
- Danc		02	0/1	09	88	3800
			Mn-1,-	W OW CIKIE		