

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1271827

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:			Sec	TwpS. R	East West
Address 2:			F6	eet from North /	South Line of Section
City:	State: Z	ip:+	Fe	eet from East /	West Line of Section
Contact Person:			Footages Calculated from I	Nearest Outside Section C	Corner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long: _	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	W	/ell #:
	e-Entry	Workover	Field Name:		
	_		Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	∐ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing:	:
	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total C	Depth:
CM (Coal Bed Methane)	dow	Temp. Abd.	Amount of Surface Pipe Se	et and Cemented at:	Feet
☐ Cathodic ☐ Other (Co	ore, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes	No
If Workover/Re-entry: Old Well I			If yes, show depth set:		Feet
Operator:			If Alternate II completion, c	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:					
Deepening Re-perf	•	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G		(Data must be collected from the		
Commingled	Pormit #:		Chloride content:	ppm Fluid volume	e: bbls
Dual Completion			Dewatering method used: _		
SWD			Location of fluid disposal if	hauled offsite	
☐ ENHR			1		
GSW	Permit #:		Operator Name:		
_ _			Lease Name:	License #:_	
Spud Date or Date R	eached TD	Completion Date or	Quarter Sec	TwpS. R	East _ West
Recompletion Date		Recompletion Date	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 Approved by: Date:

Page Two



Operator Name:			Lease Name:			Well #:	
Sec Twp	S. R	East West	County:				
open and closed, flow	ring and shut-in pressu	ormations penetrated. D res, whether shut-in pre ith final chart(s). Attach	ssure reached stati	c level, hydrosta	tic pressures, bott		
		tain Geophysical Data a r newer AND an image f		gs must be ema	iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Taker (Attach Additional		Yes No			on (Top), Depth an		Sample
Samples Sent to Geo	logical Survey	☐ Yes ☐ No	Nam	9		Тор	Datum
Cores Taken Electric Log Run		Yes No					
List All E. Logs Run:							
		CASING Report all strings set-c	RECORD Ne conductor, surface, inte		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 / SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used		Type and P	ercent Additives	
Protect Casing Plug Back TD							
Plug Off Zone							
	ulic fracturing treatment or otal base fluid of the hydra	n this well? aulic fracturing treatment ex	ceed 350.000 gallons	Yes ? Yes		p questions 2 an p question 3)	d 3)
	· ·	submitted to the chemical of	_	Yes		out Page Three	of the ACO-1)
Shoto Par Foot	PERFORATIO	N RECORD - Bridge Plug	s Set/Type	Acid, Fra	cture, Shot, Cement	Squeeze Record	i
Shots Per Foot	Specify Fo	ootage of Each Interval Perf	orated	(AI	mount and Kind of Ma	terial Used)	Depth
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:			
					Yes No		
Date of First, Resumed	Production, SWD or ENH	R. Producing Meth		Gas Lift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil B		Mcf Wate			as-Oil Ratio	Gravity
DISPOSITIO	ON OF GAS:	N.	METHOD OF COMPLE	TION:		PRODUCTIO	ON INTERVAL:
Vented Sold		Open Hole	Perf. Dually	Comp. Cor	nmingled		
	bmit ACO-18.)	Other (Specify)	(Submit A	ACO-5) (Sub	mit ACO-4)		

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	Belle 2
Doc ID	1271827

Tops

Name	Тор	Datum
Elgin	3427	-1925
Heebner	3599	-2096
Snyderville Sand	3612	-2109
Brown Lime	3787	-2284
Stark	4164	-2261
Base KC	4250	-2747
Mississippian	4338	-2835
Kinderhook	4532	-3029
Viola	4637	-3134
Simpson	4733	3230
Simpson Sand	4744	-3231

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	Belle 2
Doc ID	1271827

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	28	250	Common	155	3%cc, 2% gel
Production	7.875	4.5	11.6	4816	ASBC	200	10% salt, 2% gel, 1 3/4 cfr-2, 5# gilsonite



Cementing Services Field Ticket

Field Ticket Number: MLK1510111330 Field Ticket Date: Sunday, October 11, 2015 Job Name: 02 Production/Long String Barber, Kansas BELLE Charles Griffin Well Location: Byers, Co. 80103-0670 Well Name: Well Number: Well Type: #N/A #2 New Well Rig Number: WW DRILLING # Shipping Point: Medicine Lodge, KS

Mid Con

PERSONEL	EQUIPMENT	
JAKE HEARD	CEMENTERS PICK-UP 717	
ROGER SMITH	PUMP TRUCK 986-469	
WAYNE RUCKER	BULK TRUCK 949-741	

Sales Office:

1.00 1.00 296.00 63.00	nin. 4 hr per day per cu. Ft.	2,765.75 275.00 2.48	2765.75 275.00	1,189.27 118.25	ок⊶ип 57.0% 57.0%	Not Amount 1,189.27
1.00 296.00	per day per cu. Ft.	275.00				,
296.00	per cu. Ft.		275.00	118.25	57.0%	
	•	2.48			07.070	118.25
63.00	7 - Table 1 - Ta		734.08	1.07	57.0%	315.65
	ton-mile	2.75	173.25	1.18	57.0%	74.50
5.00	per mile	4.40	22.00	1.89	57.0%	9,46
5.00	per mile	7.70	38,50	3.31	57.0%	16.56
EQUIPME	NT FLOAT	EQUIPM	ENT FL	DAT EQU	PIMENT	
1.00	each	425.00	425.00	182.75	57.0%	182.75
1.00	each	655.00	655.00	281.65	57.0%	281.65
1.00	each	315.00	315.00	135.45	57.0%	135.45
3.00	each	57.00	171.00	24.51	57.0%	73.53
MA	TERIALS - M.	ATERIALS	- MATER	IALS		
10.00	bbl	25,00	250.00	10.75	57.0%	107.50
10.00	bbl	25.00	250.00	10.75	57.0%	107.50
200.00	sack	23.50	4,700.00	10.11	57.0%	2,021.00
1000.00	pound	0.98	980.00	0.42	57.0%	421.40
57.00	pound	18.90	1,077.30	8.13	57.0%	463.24
28.00	pound	3,50	98.00	1.51	57.0%	42.14
30.00	sack	16.20	486.00	6.97	57.0%	208.98
IONAL ITE	MS - ADDIT	IONAL IT	EMS - ADI	DITIONAL	ITEMS	
	per hour	440.00	0.00	189.20	57.0%	0.00
	5.00 EQUIPME 1.00 1.00 1.00 3.00 MA 10.00 10.00 200.00 1000.00 57.00 28.00 30.00	5.00 per mile FQUIPMENT FLOAT 1.00 each 1.00 each 1.00 each MATERIALS - M 10.00 bbl 10.00 bbl 200.00 sack 1000.00 pound 57.00 pound 28.00 pound 30.00 sack	5,00 per mile 7,70 EQUIPMENT FLOAT EQUIPM 1,00 each 425,00 1,00 each 655,00 1,00 each 315,00 3,00 each 57,00 MATERIALS 10,00 bbl 25,00 10,00 bbl 25,00 200,00 sack 23,50 1000,00 pound 0,98 57,00 pound 18,90 28,00 pound 3,50 30,00 sack 16,20 ONAL ITEMS - ADDITIONAL IT	5.00 per mile 7.70 38.50 EQUIPMENT FLOAT EQUIPMENT FLO 1.00 each 425.00 425.00 1.00 each 655.00 655.00 1.00 each 315.00 315.00 3.00 each 57.00 171.00 MATERIALS - MATERIALS - MATER 10.00 bbl 25.00 250.00 10.00 bbl 25.00 250.00 200.00 sack 23.50 4,700.00 1000.00 pound 0.98 980.00 57.00 pound 18.90 1,077.30 28.00 pound 3.50 98.00 30.00 sack 16.20 486.00	5,00 per mile 7.70 38,50 3.31 EQUIPMENT FLOAT EQUIPMENT FL	5.00 per mile 7.70 38.50 3.31 57.0% EQUIPMENT FLOAT EQUIPMENT 1.00 each 425.00 425.00 182.75 57.0% 1.00 each 655.00 655.00 281.65 57.0% 1.00 each 315.00 315.00 135.45 57.0% 3.00 each 57.00 171.00 24.51 57.0% MATERIALS - MATERIALS 10.00 bbl 25.00 250.00 10.75 57.0% 10.00 bbl 25.00 250.00 10.75 57.0% 200.00 sack 23.50 4,700.00 10.11 57.0% 1000.00 pound 0.98 980.00 0.42 57.0% 57.00 pound 18.90 1,077.30 8.13 57.0% 28.00 pound 3.50 98.00 1.51 57.0% ONAL ITEMS - ADDITIONAL ITEMS - ADDITIONAL ITEMS

Gross Discount Final 2,284.89 892.62 1,723.69 673.38 Services Total 4,008.58 Equipment Total 1,566.00 7,841.30 Materials Total 4,469.54 3,371.76 Additional Items 0.00 0.00 Final Total 13,415.88 7,647.05 5,768.83

Allied Rep Customer Agent: JAKE HEARD JR GRIFFIN

This output does NOT include taxes. Applicaple sales tax will be billed on the final invoice. Customer hereby achnowledges receipt of the materials and services described above and on the attached documents. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the following page.

Field Ticket Total (USD):

\$5,768.83



Cementing Services Field Ticket

Field Ticket Number: MLK1510051930	Field Ticket Date:	10/6/15	
BIII To: Charles N Griffin	Job Name:	01 Surface	1
Pratt, Kansas 67124-0347	Well Name: Well Number:	Bell #2	
	Shipping Point: Sales Office:	MCOICING, HOUSE, KS Permian Basin BD	

	Sales Of	Nce:		Permian Basin	BD	
	SERVICES	SERVICES	- SERVICE	ES .		
eir	UOM	Unitaint	Grijski Amil	Unit Net	Descional	Nel Anjount
1,00	min. 4 hr	1,512.25	1512,25	756.13	50%	756.13
163.66	per cu. Ft.	2.48	405.87	1.24	50%	202.93
37.52	ton-mile	2.75	103.17	1.38	50%	51.59
5.00	per mile	4,40	22.00	2.20	50%	11.00
5,00	per mile	7.70	38.50	3.85	50%	19.25
MA	TERIALS - M	ATERIAL	S - MATE	RIALS		
155.00	per sack	17.90	2,774.50	8.95	50%	1,387.25
438.00	per pound	1.10	481.80	0.55	50%	240.90
IONAL IT	EMS - ADDIT	TIONAL IT	EMS - AD	DITIONA	L ITEIVIS	
	per hour	440.00	0.00	220.00	50%	0.00
				Gross	Discount	Final
						1,040.89
						1,628.15 0.00
property of		Au	Final Total			2,669,04
rials and services	described above and o	n the attached do	cuments.			
	1.00 163.66 37.52 5.00 5.00 155.00 438.00 TONAL IT	SERVICES -	1.00 min. 4 hr 1,512.25 163.66 per cu. Ft. 2.48 37.52 ton-mile 2.75 5.00 per mile 4.40 5.00 per mile 7.70 MATERIALS - MATERIALS 155.00 per sack 17.90 438.00 per pound 1.10 TONAL ITEMS - ADDITIONAL IT per hour 440.00 S MARAGARIANA SACARA	SERVICES - SERVICES - SERVICES - SERVICES 1.00	SERVICES - SERVICES SERVICES	SERVICES - SERVICES - SERVICES 1512.25 756.13 50% 163.66 per cu. Fl. 2.48 405.87 1.24 50% 37.52 ton-mile 2.75 103.17 1.38 50% 5.00 per mile 4.40 22.00 2.20 50% 5.00 per mile 7.70 38.50 3.85 50% 155.00 per mile 7.70 38.50 3.85 50% 50% 5.00 per pound 7.70

Gason t. Kinder It. Goe It. Barber County Gerlaug Gerlagg



Charles N. Griffin Prepared For:

> P.O.Box 347 Pratt KS. 67124

ATTN: Bruce Reed

Belle #2

27-32s-12w Barber,KS

Start Date:

2015.10.08 @ 17:29:35

End Date:

2015.10.08 @ 22:51:20

Job Ticket #: 59797

DST#: 1

Trilobite Testing, Inc 1515 Commerce Parkway Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620



Charles N. Griffin

27-32s-12w Barber, KS

P.O.Box 347

Belle #2 Job Ticket: 59797

DST#:1

Pratt KS. 67124 ATTN: Bruce Reed

Test Start: 2015.10.08 @ 17:29:35

GENERAL INFORMATION:

Formation: Deviated:

Snyderville Sd

No

Time Tool Opened: 19:03:35

Time Test Ended: 22:51:20

Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial) Gary Pevoteaux

Tester:

Unit No:

Reference Bevations:

1503.00 ft (KB) 1498.00 ft (CF)

KB to GR/CF:

5.00 ft

Total Depth:

Interval:

3580.00 ft (KB) To 3630.00 ft (KB) (TVD) 3630.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Serial #: 9124 Press@RunDepth:

Outside

118.89 psig @

3581.00 ft (KB)

2015.10.08

Capacity:

8000.00 psig

Start Date: Start Time: 2015.10.08 17:29:40 End Date: End Time:

22:51:19

Last Calib .: Time On Btm: 2015.10.08

Time Off Btm:

· 2015.10.08 @ 19:02:50 2015.10.08 @ 21:08:35

TEST COMMENT: IF:Weak blow . 1 - 2 1/2".

ISI:No blow.

FF:Weak blow . Slow increase to 3 1/2".

FSI:No blow.

PRESSURE SUMMARY Annotation Temp Pressure Time (Min.) (psig) (deg F) 107.21 Initial Hydro-static 1708.00 0 106.35 Open To Flow (1) 25.11 1 86.22 107.63 Shut-In(1) 31 End Shut-In(1) 1189.50 108.62 62 108.28 Open To Flow (2) 63 90.24 109.03 Shut-In(2) 91 118.89 110.01 End Shut-In(2) 1164.98 125 Final Hydro-static 110.15 1686.53 126

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 8%m 92%w	0.59
63.00	SOCMW 1%o 31%m 68%w	0.88
15.00	OCM 4%o 96%m	0.21

Gas F	Rates
-------	-------

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

Trilobite Testing, Inc

Ref. No: 59797



Charles N. Griffin

27-32s-12w Barber,KS

P.O.Box 347 Pratt KS. 67124

Job Ticket: 59797

Belle #2

DST#: 1

ATTN: Bruce Reed

Test Start: 2015.10.08 @ 17:29:35

GENERAL INFORMATION:

Formation:

Snyderville Sd

Deviated:

Whipstock: No

ft (KB)

Conventional Bottom Hole (Initial) Test Type:

Time Tool Opened: 19:03:35 Time Test Ended: 22:51:20

Tester:

Gary Pevoteaux

Unit No: 80

KB to GR/CF:

Interval:

3580.00 ft (KB) To 3630.00 ft (KB) (TVD)

1503.00 ft (KB)

Total Depth:

3630.00 ft (KB) (TVD)

Reference Bevations:

1498.00 ft (CF)

Hole Diameter:

5.00 ft

Serial #: 6798

Press@RunDepth:

7.88 inches Hole Condition: Fair

Start Date:

Inside

psig @ 2015.10.08

3581.00 ft (KB) End Date:

2015.10.08

Capacity: Last Calib.: 8000.00 psig

Start Time:

17:24:18

End Time:

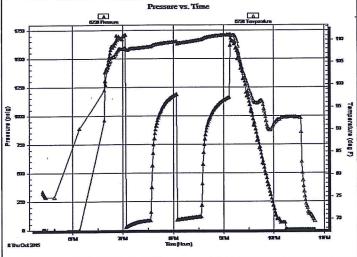
22:48:57

Time On Btm: Time Off Btm: 2015.10.08

TEST COMMENT: IF:Weak blow . 1 - 2 1/2". ISI:No blow.

FF:Weak blow . Slow increase to 3 1/2".

FSI:No blow.



PRESSURE SUMMARY

- 1				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
Ì				
3				
				1
			•	,

Recovery

Length (ft)	Description	Volume (bbl)
120.00	MW 8%m 92%w	0.59
63.00	SOCMW 1%o 31%m 68%w	0.88
15.00	OCM 4% o 96% m	0.21

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 59797



TOOL DIAGRAM

Charles N. Griffin

P.O.Box 347 Pratt KS. 67124 Belle #2

Job Ticket: 59797

DST#: 1

ATTN: Bruce Reed

Test Start: 2015.10.08 @ 17:29:35

27-32s-12w Barber, KS

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length:

Length: 3460.00 ft Diameter: 0.00 ft Diameter: 120.00 ft Diameter: 20.00 ft

3.80 inches Volume: 0.00 inches Volume: 2.25 inches Volume: Total Volume: 48.53 bbl 0.00 bbl 0.59 bbl 49.12 bbl Tool Weight:

2400.00 lb Weight set on Packer: 24000.00 lb

Weight to Pull Loose: 62000.00 lb 1.00 ft Tool Chased String Weight: Initial 49000.00 lb

Final 49000.00 lb

Drill Pipe Above KB: Depth to Top Packer:

3580.00 ft

Depth to Bottom Packer: Interval between Packers:

50.00 ft 70.00 ft

Tool Length: Number of Packers:

Diameter:

ft

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3561.00		
Shut In Tool	5.00			3566.00		
Hydraulic tool	5.00			3571.00		
Packer	4.00			3575.00	20.00	Bottom Of Top Packer
Packer	5.00			3580.00		
Stubb	1.00			3581.00		
Recorder	0.00	9124	Outside	3581.00		
Recorder	0.00	6798	Inside	3581.00		
Perforations	7.00			3588.00		
Blank Spacing	32.00			3620.00		
Perforations	5.00			3625.00		
Bullnose	5.00			3630.00	50.00	Bottom Packers & Anchor

Total Tool Length:

70.00

Trilobite Testing, Inc

Ref. No: 59797



FLUID SUMMARY

Charles N. Griffin

27-32s-12w Barber, KS

P.O.Box 347 Pratt KS. 67124

Belle #2

Job Ticket: 59797

DST#: 1

ATTN: / Bruce Reed

Test Start: 2015.10.08 @ 17:29:35

Mud and Cushion Information

Mud Type: Gel Chem Mud Weight:

9.00 lb/gal

Viscosity: Water Loss: 46.00 sec/qt 8.89 in³

Resistivity: Salinity:

0.00 ohm.m 4000.00 ppm

Cushion Type:

Cushion Length:

Cushion Volume: Gas Cushion Type:

Gas Cushion Pressure:

bbl

ft

Oil API: Water Salinity:

deg API 91000 ppm

Filter Cake:

0.20 inches

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MW 8%m 92%w	0.590
63.00	SOCMW 1%o 31%m 68%w	0.884
15.00	OCM 4%o 96%m	0.210

Total Length:

198.00 ft

Ref. No: 59797

Total Volume:

1.684 bbl

0

Num Fluid Samples: 0

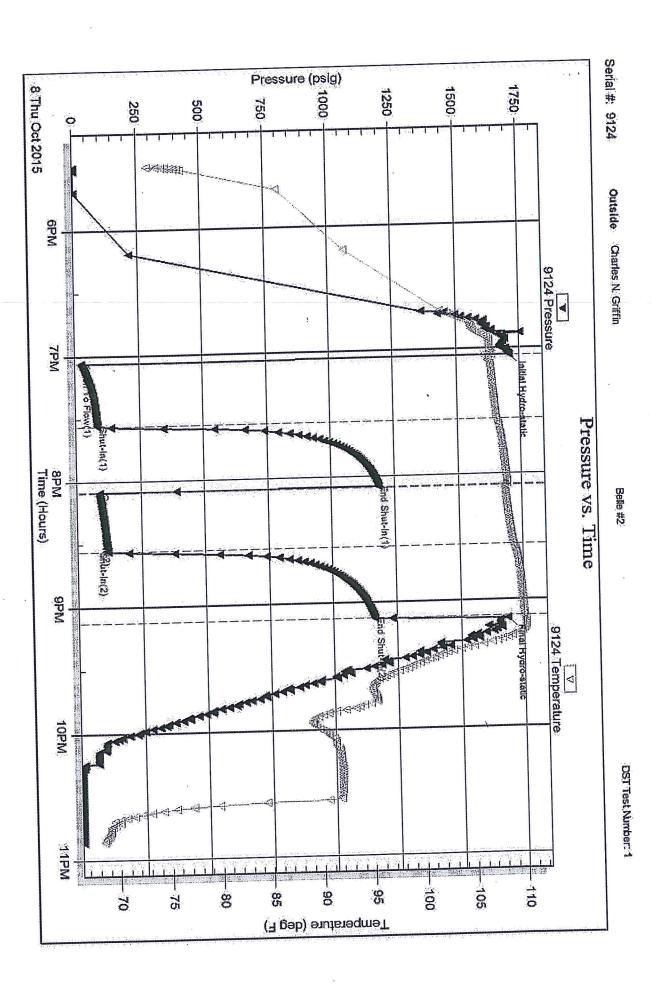
Num Gas Bombs:

Serial #: none

Laboratory Name:

Laboratory Location:

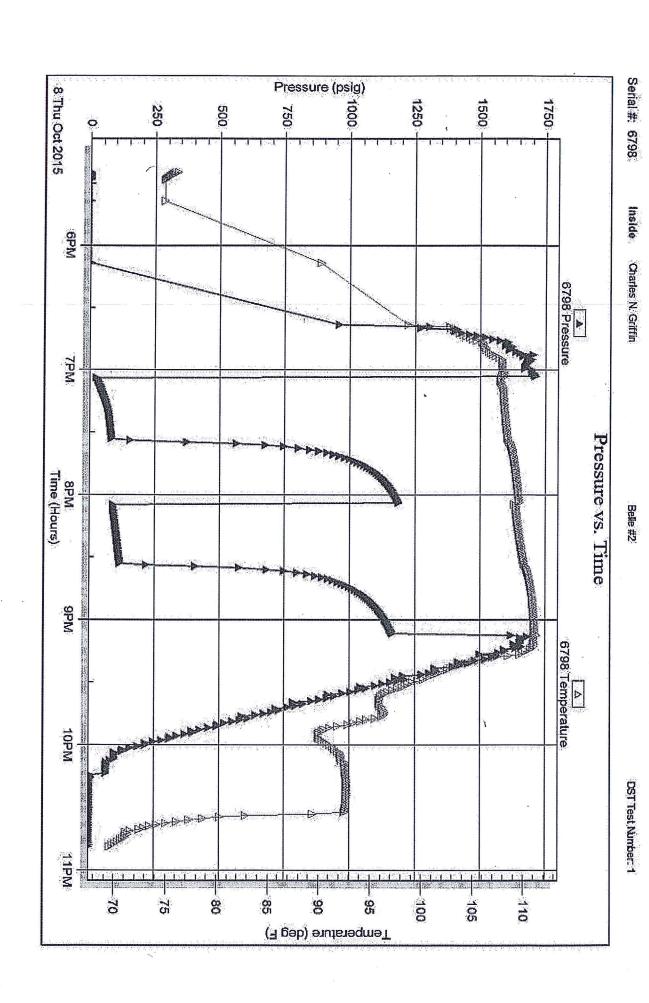
Recovery Comments: Rw.085ohms@73deg



Tritobile Testing, Inc

Ref. No.

59797



Trilobite Testing, Inc

Ref. No.

59797



1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

59797 NO.

Well Name & No. Reus +	-2	Test No.	Date 10 -8-15
Company CHAIZLES N	C-RIFFIN	Elevation \	
Address P.O. Box 347	PRATT KS	.67124	Service Servic
	20	Rig WW F)RLG - # 4
	SQS Rge. 12W	_co. BARBER	State VSS
Interval Tested 3580 = 30	30 Zone Tested	SNYDERVILLE	Sp.
Anchor Length	SO' Drill Pipe Run	3460'	Mud Wt. 89
사람은 사람이 있다. 이번 사람들은 사람들이 되었다면 보다 보다 보다 보다 되었다.	SIS! Drill Collars Run	1201	Vis 46
	3580' Wt. Pipe Run	()	wL 8-9 در
and the analysis of the consistent of the consistent of the constant of the co	3630 Chlorides	4,000 ppm System	The state of the section of the section of
Blow Description IF: Walk	Jan 1- 2 1/2	リー アCア:	No bloce
Diow Description	Υ== 		
File De deland De	The state of the s	5 3 15 11	1251 - No lo Deu
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Rec <u>\S</u> Feet of <u>OCM</u>	The gradual particle of the second section of the second second section of the second section of the second second section of the section of the second section of the	%gas └(%c	il %water % %mu
Rec 63 Feet of SOCN	ιW	%gas \ \ %c	10 21
Rec 120 Feet of IMW	and the second of the second o	%gas %o	iil 92,4water 8 %mu
Rec Feet of		%gas %o	il %water %mu
Rec Feet of		%gas %c	
Rec Total 198 BHT	NO Gravity NA	API RW 4085@ 73	The property of the property o
	0 8 to Test 1050		On Location <u>1640</u>
B) First Initial Flow	<u> </u>		tarted \7°29
C) First Final Flow	<u> </u>	T-C	pen 19.03
D) Initial Shut-In\\ペウギ	☐ Circ Sub	T-P	ulled ユ Vの Ċ
E) Second Initial Flow	10 Hourly Standby	88+88 T-C	out
F) Second Final Flow	Mileage W	X2 Returned Co	mments * KELEASED@
G) Final Shut-In	US □ Sampler	TO LOAD TOOLS -	0658 10/11/15
H) Final Hydrostatic \\\	§		
	☐ Shale Packer	у	Ruined Shale Packer
nitial Open 3 o			Ruined Packer
nitial Shut-In 30	de .	- Q Sü	9.0.0
Final Flow 3 O	Day Standby	Su 4 1 1.5d 20h Tot	b lotal
Final Shut-In 🕢 3 🔿			al
	Sub Total 1226	Wif	P/DST-Disc't
proved By ()) 11/1 / A	\sim	Bossos artolica (Sec	my for the
Approved By All Holling inc. shall not be liable for damaged of any kind of quipment, or its statements or opinion concerning the results of	f the proderty or personnel of the one for whom	r Representativea test is made, or for any loss suffered or	sustained directly or indirectly through the use of its

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED

THE THE CITE CERED TO DE	CEEES WITH DECE BROKE CIVE
10/26/15 10:21	Fracture Start Date/Time:
10/26/15 13:30	Fracture End Date/Time:
Kansas	State:
Barber	County:
15-007-24292-0000	API Number:
Griffin Management	Operator Number:
Belle #2	Well Name:
Yes	Federal Well:
-98.6103057	Longitude:
37.227924	Latitude:
NAD27	Long/Lat Projection:
4,400'	True Vertical Depth (TVD):
369,964	Total Clean Fluid Volume* (gal):
	10/26/15 10:21 10/26/15 13:30 Kansas Barber 15-007-24292-0000 Griffin Management Belle #2 Yes -98.6103057 37.227924 NAD27 4,400'





Additive	Specific Gravity	Additive Quantity	Mass (lbs)
Water	1.00	369,964	3,087,350
Sand (Proppant)	2.65	166,900	166,900
Plexcide P5	0.96	40	320
Plexcide P5	0.96	40	320
Plexgel Breaker XPA	1.03	72	619
Plexset 730	0.90	88	661
Plexsurf 580 ME	0.95	93	737
Plexsurf 580 ME	0.95	93	737
Plexslick 957	1.11	259	2,399
	8		
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Total Slurry Mass (Lbs)

ngredients Section:							3,260,044	
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
ater	Operator	Carrier/Base Fluid	Water	7732-18-5	100.00%	3,087,350	94.70270%	E-2502.00
nd (Proppant)	Uniman	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	100.00%	166,900	5.11956%	
excide P5	Chemplex	Biocide	Tributyl Tetradecyl Phosphonium Chloride	81741-28-8	5.00%	16	0.00049%	
excide P5	Chemplex	Biocide	Methanol	67-56-1	20.00%	64	0.00197%	
exgel Breaker XPA	Chemplex	Slickwater Breaker	Hydrogen Peroxide	7722-84-1	7.00%	43	0.00133%	
exset 730	Chemplex	Activator	Methanol	67-56-1	50.00%	330	0.01014%	
exsurf 580 ME	Chemplex	Product Stabalizer	2-Butoxyethanol	111-76-2	60.00%	442	0.01357%	
lexsurf 580 ME	Chemplex	Product Stabalizer	Methyl Alcohol	67-56-1	10.00%	74	0.00226%	
lexslick 957	Chemplex	Friction Reducer	Petroleum Hydrotreated Light Distillate	64742-47-8	25.00%	600	0.01840%	9970
								Non-MSDS Component Non-MSDS Component Non-MSDS Component Non-MSDS Component Non-MSDS Component Non-MSDS Component
		1				1		

*Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

Water Sand (Proppant) Plexcide P5 Plexcide P5 Plexgel Breaker XPA Plexset 730 Plexsurf 580 ME Plexsurf 580 ME Plexslick 957