

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1217335

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 🗌 East 🗌 Wes				
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 III Approved by: Date:						

Page Two



Operator Name:				Lease N	Name: _			_ Well #:		
Sec Twp	S. R	East	West	County	:					
	ow important tops of fo ing and shut-in pressu o surface test, along wi	res, whe	ther shut-in pre	ssure reacl	hed stati	c level, hydrosta	tic pressures, bo			
Final Radioactivity Logilles must be submitted						gs must be ema	iled to kcc-well-lo	ogs@kcc.ks.go	v. Digital	electronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No			3	on (Top), Depth a			Sample
Samples Sent to Geol	ogical Survey	Ye	es 🗌 No		Nam	9		Тор	L	Datum
Cores Taken Electric Log Run		☐ Y€								
List All E. Logs Run:										
			CASING	RECORD	│ Ne	w Used				
		Repo				rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		e Casing : (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
									<u> </u>	
Purpose	Depth					EEZE RECORD				
Purpose: Perforate	Top Bottom	Туре	of Cement	# Sacks	Used		Type and I	Percent Additives		
Protect Casing Plug Back TD										
Plug Off Zone										
Did you perform a hydrau	ilic fracturing treatment or	n this well?	·			Yes	No (If No, sk	ip questions 2 ar	nd 3)	
	otal base fluid of the hydra		•		•			ip question 3)		
Was the hydraulic fractur	ing treatment information	submitted	to the chemical of	disclosure reg	gistry?	Yes	No (If No, file	out Page Three	of the ACC)-1)
Shots Per Foot			ID - Bridge Plug Each Interval Perl				cture, Shot, Cemen		b	Depth
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	other (Explain)			
Estimated Production Per 24 Hours	Oil Bl	bls.	Gas	Mcf	Wate	er Bl	ols.	Gas-Oil Ratio		Gravity
DIODOGITI	ON OF CAC			ACTUOD OF	COMPLE	TION		DDODUGT		
Vented Sold	ON OF GAS: Used on Lease		N Open Hole	NETHOD OF \Box Perf.	Dually	Comp. Con	nmingled	PRODUCTIO	λΝ ΙΝΙΕΚ\	/AL:
(If vented, Sub			Other (Specify)		(Submit A		mit ACO-4)			

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041

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

No.

7-8-10 Sec.	Twp. Range	Bal	County	Y State	On Location	Finish > //		
Date 1/189 B'	12		Ruser	STOCK	Den 145 1	Crn. 4		
Lease Quant Row W	/ell No.	Locatio	on	A less windstand	ca haaroor feet gelecologisteld	the sub-Brette Labour		
Contractor Police		100	Owner	and the state of t	10 X 2020 1 10 X 2 D ACK 1 1 1 1 2 1 2	Service and the service of		
Type Job 1274	432		To Quality O	ilwell Cementing, la	nc. Int cementing equipmen	t and furnish		
Hole Size (5316)	T.D. 431.93		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Csg.	Depth		Charge To		man and the second	To make 1 Q		
Tbg. Size	Depth	S 2	Street					
Tool 10-15 4	Depth	94	City		State			
Cement Left in Csg.	Shoe Joint 2670	2	The above wa	s done to satisfaction	and supervision of owner	agent or contractor.		
Meas Line	Displace		Cement Amo	ount Ordered	Street Street Street	1000 - 100 T. O. O.		
9 EQUIPN	IENT AND ON	1/2	2	00				
Pumptrk No. Cementer Helper	reale 3	75	Common		The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Bulktrk No. Driver Driver	000 2	100	Poz. Mix		A MAIN CONTRACTOR	The Control of the Asia		
Bulktrk No. Driver Driver			Gel.	7				
JOB SERVICES	& REMARKS		Calcium					
Remarks:			Hulls	William Record Control		article significant		
Rat Hole	Fig. 1. State of the second second		Salt					
Mouse Hole			Flowseal					
Centralizers			Kol-Seal					
Baskets			Mud CLR 48					
D/V or Port Collar			CFL-117 or (CD110 CAF 38	1940 par in the Commence	A CONTRACTOR OF THE SAME		
Comer D.S	-Circbb		Sand	11				
			Handling /	5	Contract of the Contract of th	The State of the S		
		No. 18	Mileage					
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	particular and the second of the			and the markety	Tax	TONK FALL VOICE		
Organization .	MARKETON, NO. 1 Sec. 1997		me, are every	Contract of Name	Discount			
X Signature	8				Total Charge			
		97.5 ST. 18 ST.						

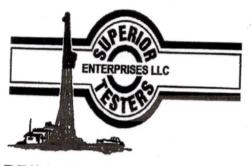
QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No.

Cell 785-324-1041				12 1	J	k		
6 MB 10	Sec. Twp.	Range	Ras	County	Remsas	On Location	Finish	
Date Aug B	NACH NIS		Location	Kusso	u 5 to 6	Aire 20	40	
Lease Facia To	Well No.	The same of the sa	Location	Street on the way	Service Service Control Service Servic	early to the state of the field of	and the test of the th	
Contractor			100	Owner To Quality O	ilwell Cementing, Inc.	PMA TO THE RESIDENCE OF THE PARTY OF THE PAR		
Type Job	3102		You are here	by requested to rent	cementing equipment ner or contractor to do	and furnish work as listed.		
Hole Size			Charge (mount			
Csg.	Depth			То				
Tbg. Sizè	Depth		4.00	Street		State		
Tool	Shoe			City The above was	as done to satisfaction a		agent or contractor	
Cement Left in Csg.	Displa			Cement Amo	ount Ordered	nd supervision of owner	Sei North	
Meas Line	QUIPMENT	//			. //	Constant of the Constant of th		
No. Cement		9		Common	11		COMPANY TO A STATE	
Pumptrk No. Driver	though	7		Poz. Mix	14	W4,,		
	three			Gel.			Harris 2	
	VICES & REM	ARKS	Park and	Calcium				
Remarks:			1	Hulls	AND	18, Sandalis Sand	Company of the second	
Rat Hole				Salt 116 At				
Mouse Hole				Flowseal				
Centralizers				Kol-Seal				
Baskets				Mud CLR 48	8	one management of the		
D/V or Port Collar	- garant			CFL-117 or CD110 CAF 38				
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X Signature		Children in the	espērak ka	上 自由1000000000000000000000000000000000000		Total Charge	'	



Prepared For: Ward Craig Oil Co

15 South Main St. 67665+2901

Russell , Kansas

ATTN: Francis Whisler

5/16S/14W Barton

Nuss B-2

Start Date: 2010.07.12 @ 09:30:00

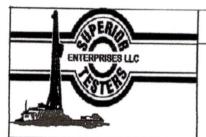
End Date:

2010.07.12 @ 00:00:00

Job Ticket #: 15948

DST#: 1

Superior Testers Enterprises LLC PO Box 138 Great Bend KS 67530 1-800-792-6902



Ward Craig Oil Co

Nuss B-2

15 South Main St. 67665+2901

Russell , Kansas

5/16S/14W Barton

Job Ticket: 15948

DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

No

Whipstock: Time Tool Opened: 00:00:00

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester:

Dylan E. Ellis

Unit No:

3345-Great Bend-80

3373.00 ft (KB) To 3410.00 ft (KB) (TVD)

Interval: Total Depth:

3410.00 ft (KB) (TVD)

Hole Diameter:

Time Test Ended: 00:00:00

7.88 inches Hole Condition: Fair

Reference Elevations:

1941.00 ft (KB)

1934.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 4143

Press@RunDepth:

Inside

819.65 psia @

3405.00 ft (KB)

2010.07.12

Capacity:

5000.00 psia

Start Date:

2010.07.12

End Date:

Last Calib.:

2010.07.12

Start Time:

09:30:00

End Time:

13:22:15

Time On Btm:

2010.07.12 @ 10:52:45

Time Off Btm:

2010.07.12 @ 12:25:46

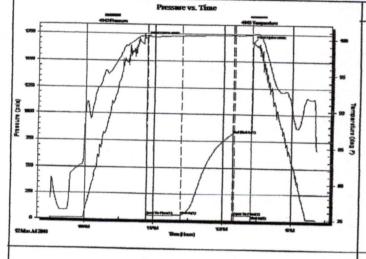
TEST COMMENT: 1ST Opening 30 Minutes Real weak surface blow for 16 minutes and died

1ST Shut-IN

45 Minutes no blow back

2ND Opening 15 Minutes no blow came out of the hole after 15 minutes

2nd Shut-In none taken



PRESSURE SUMMARY							
Pressure (psia)	Temp (deg F)	Annotation					

Time	Pressure	Temp	Annotation	
(Min.)	(psia)	(deg F)		
0	1707.85	100.33	Initial Hydro-static	
2	44.14	100.15	Open To Flow (1)	
32	46.82	100.36	Shut-In(1)	
77	819.65		End Shut-In(1)	
78	47.65	100.51	Open To Flow (2)	
93	47.85	100.53	Shut-In(2)	
94	1676.85	100.68	Final Hydro-static	
			•	
1				
1	- 1			

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very slightly oil cut mud	0.21
0.00	10% Oil 90%Mud	0.00
	1	

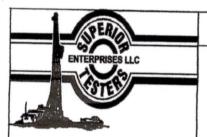
Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 15948

Printed: 2010.07.12 @ 13:42:06



Ward Craig Oil Co

Nuss B-2

15 South Main St. 67665+2901

Russell, Kansas

5/16S/14W Barton

Job Ticket: 15948

DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

GENERAL INFORMATION:

Time Test Ended: 00:00:00

Formation:

Arbuckle

Deviated:

Whipstock: Time Tool Opened: 00:00:00

ft (KB)

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Dylan E. Elis

Unit No:

3345-Great Bend-80

Interval:

3373.00 ft (KB) To 3410.00 ft (KB) (TVD)

Total Depth:

3410.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Fair

Reference Elevations:

1941.00 ft (KB)

1934.00 ft (CF)

KB to GR/CF:

7.00 ft

Serial #: 8400 Press@RunDepth: Outside

816.71 psia @

2010.07.12

3406.00 ft (KB) End Date:

2010.07.12

Capacity:

5000.00 psia

Start Date: Start Time:

09:30:00

End Time:

12:37:30

Last Calib .:

2010.07.12

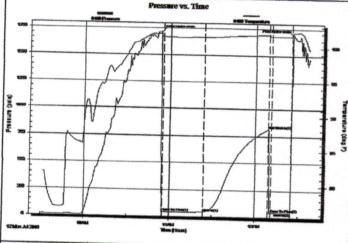
Time On Btm: Time Off Btm: 2010.07.12 @ 10:53:30 2010.07.12 @ 12:26:00

TEST COMMENT: 1ST Opening 30 Minutes Real weak surface blow for 16 minutes and died

1ST Shut-IN 45 Minutes no blow back

2ND Opening 15 Minutes no blow came out of the hole after 15 minutes

2nd Shut-In none taken



Time	Pressure	Temp	RE SUMMARY Annotation	
(Min.)	(psia)	(deg F)		
0	1713.15	101.93	Initial Hydro-static	
2	47.36	101.50	Open To Flow (1)	
30	47.78	101.40		
76	816.71	101.82		
78	49.30	101.61	Open To Flow (2)	
92	49.16	101.60	Shut-In(2)	
93	1685.64	102.13	Final Hydro-static	
		- 1		

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Very slightly oil cut mud	0.21
0.00	10% Oil 90%Mud	0.00

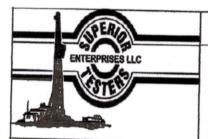
Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 15948

Printed: 2010.07.12 @ 13:42:06



TOOL DIAGRAM

Ward Craig Oil Co

Nuss B-2

15 South Main St. 67665+2901

Russell , Kansas

Job Ticket: 15948

5/16S/14W Barton

DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

Tool Information

Drill Pipe:

Length: 3373.00 ft Diameter:

3.80 inches Volume:

47.31 bbl

Tool Weight:

2000.00 lb

Heavy Wt. Pipe: Length: Drill Collar: Length:

0.00 ft Diameter: 0.00 ft Diameter: 0.00 inches Volume: 0.00 inches Volume:

0.00 bbl 0.00 bbl

Weight set on Packer: 20000.00 lb Weight to Pull Loose: 40000.00 lb

Drill Pipe Above KB:

21.00 ft

Total Volume: 47.31 bbl

Tool Chased

0.00 ft

Depth to Top Packer:

3373.00 ft

Depth to Bottom Packer: Interval between Packers:

String Weight: Initial 38000.00 lb

Final 38000.00 lb

Tool Length:

36.00 ft

57.00 ft

6.75 inches

Number of Packers:

Diameter:

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3353.00	- Longuis	
Shut-In Tool	5.00			3358.00		
Hydroic Tool	5.00			3363.00		
Packer	5.00					
Packer	5,00			3368.00	21.00	Bottom Of Top Packer
Perforations	31.00			3373.00		
Recorder	1.00	4440		3404.00		
Recorder	1.00	4143	Inside	3405.00		
Bullnose		8400	Outside	3406.00		
	3.00			3409.00	36.00	Bottom Packers & Anchor
Total Tool Lengt	h: 57.00					Concrs & Arichor



FLUID SUMMARY

deg API

ppm

Ward Craig Oil Co

Nuss B-2

15 South Main St. 67665+2901

Russell , Kansas

5/16S/14W Barton

Job Ticket: 15948

DST#: 1

ATTN: Francis Whisler

Test Start: 2010.07.12 @ 09:30:00

Oil API:

Water Salinity:

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Mud Weight: Viscosity:

9.60 in³

Water Loss: Resistivity: Salinity:

Filter Cake:

5000.00 ppm 1.00 inches

58.00 sec/qt

ohm.m

Cushion Type:

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

bbl

psia

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Very slightly oil cut mud	0.210
0.00	10% Oil 90%Mud	0.000

Total Length:

15.00 ft

Total Volume:

0.210 bbl

Num Fluid Samples: 0

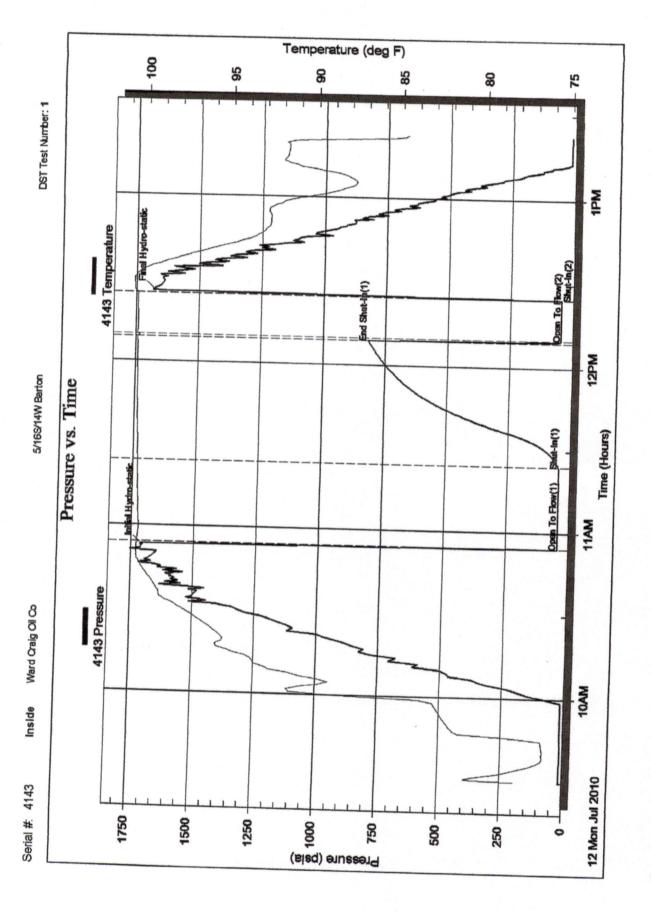
Num Gas Bombs:

Serial #:

Laboratory Name:

Recovery Comments:

Laboratory Location:



Superior Testers Enterprises LLC

Superior Testers Enterprises LLC