

C	onfiden	tiality	/ Request	ed:
	Yes	N	lo	

## Kansas Corporation Commission Oil & Gas Conservation Division

1176177

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 🗌 West
Address 2:	Feet from
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: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from: sx cmt.
Well Name:  Original Comp. Date:  Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:  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:							

Page Two



Operator Name:			L	ease Name: _			Well #:		
Sec Twp	S. R	East We	est C	County:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres	sures, whether sh	ut-in pressur	e reached stati	c level, hydrosta	tic pressures, bott			
Final Radioactivity Lo files must be submitted					gs must be ema	iled to kcc-well-log	gs@kcc.ks.go	. Digital electronic log	
Drill Stem Tests Taker (Attach Additional		Yes	No	L		n (Top), Depth an		Sample	
Samples Sent to Geo	logical Survey	Yes	No	Nam	e		Тор	Datum	
Cores Taken Electric Log Run		Yes Yes	No No						
List All E. Logs Run:									
		(	CASING REC	ORD Ne	w Used				
		· ·		ıctor, surface, inte	ermediate, producti		T		
Purpose of String	Size Hole Drilled	Size Casin Set (In O.D		Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
		ADD	ITIONAL CEN	MENTING / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cem	ent #	# Sacks Used Type and Percent Additives					
Perforate Protect Casing	100 20111111								
Plug Back TD Plug Off Zone									
1 lag on zono									
Did you perform a hydrau	ulic fracturing treatment	on this well?			Yes	No (If No, ski)	o questions 2 ar	nd 3)	
Does the volume of the to		•				_	o question 3)	(" 100 ")	
Was the hydraulic fractur	ing treatment information	on submitted to the c	hemical disclo	sure registry?	Yes	No (If No, fill o	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD - Bri Footage of Each Int			Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)  Depth				
	, ,				,		,		
TUBING RECORD:	Size:	Set At:	Pa	acker At:	Liner Run:				
						Yes No			
Date of First, Resumed	Production, SWD or Ef		cing Method: owing	Pumping	Gas Lift C	ther <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil	Bbls. G	as Mcf	Wate	er Bl	ols. G	ias-Oil Ratio	Gravity	
DIODOCITI	ON OF CAS:		, 4 CT - 1		TION:		DRODUCTIO	AN INTEDVAL.	
Vented Solo	ON OF GAS:  Used on Lease	Open Ho		IOD OF COMPLE $\Box$		nmingled	PHODUCIIC	ON INTERVAL:	
	bmit ACO-18.)	Other (S	necify)	(Submit		mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Hutchinson, William S. dba Hutchinson Oil Co.
Well Name	Alan NW #1
Doc ID	1176177

# Tops

Name	Тор	Datum
Anhy.	545	+1277
Heeb.	3080	-1258
B.L.	3218	-1396
Lans.	3241	-1419
ВКС	3491	-1669
Viola	3525	-1703
Sp. Sh.	3542	-1720
Sp. Sd.	3544	-1722
Arb.	3596	-1774



Hutchinson Oil Co

21-21-11 Stafford Co

Po Box 521 Derby KS 67037

ATTN: Nick Hutchinson/ Jef

Alan SW #1

Job Ticket: 52431

DST#: 1

Test Start: 2013.09.16 @ 16:58:24

### **GENERAL INFORMATION:**

Formation: Viola

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

Time Tool Opened: 20:09:39 Time Test Ended: 01:26:09 Tester: Chris Staats

Unit No:

3526.00 ft (KB) To 3558.00 ft (KB) (TVD) Interval:

Reference Elevations:

1822.00 ft (KB)

Total Depth: 3558.00 ft (KB) (TVD)

1809.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8676 Press@RunDepth: Outside

3527.00 ft (KB) 158.74 psig @

Capacity:

8000.00 psig

Start Date: 2013.09.16 End Date: 2013.09.17 01:26:08 Last Calib.: Time On Btm: 2013.09.17

Start Time:

16:58:29

End Time:

Time Off Btm:

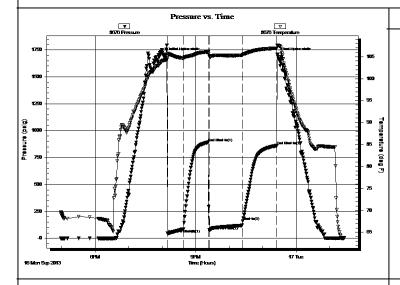
2013.09.16 @ 20:06:39 2013.09.16 @ 23:26:54

TEST COMMENT: IF: Strong blow BOB 1 min

ISI: No blow back

FF: S trong blow BOB 20 sec GTS 1 min TSTM

FSI: Weak blow back 2"



### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1703.14	104.29	Initial Hydro-static
3	45.43	104.77	Open To Flow (1)
32	85.68	104.68	Shut-In(1)
77	891.95	106.07	End Shut-In(1)
79	70.52	104.90	Open To Flow (2)
138	158.74	105.45	Shut-In(2)
199	860.47	106.93	End Shut-In(2)
201	1704.78	107.53	Final Hydro-static

### Recovery

Description	Volume (bbl)
3515 GIP	0.00
M,O,G 10%mud 20%oil 70%gas	0.25
O,M,G 25%oil 25%mud 50%gas	1.68
	3515 GIP M,O,G 10%mud 20%oil 70%gas

#### Gas Rates

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

Trilobite Testing, Inc. Ref. No: 52431 Printed: 2013.09.17 @ 05:29:37



**FLUID SUMMARY** 

Hutchinson Oil Co 21-21-11 Stafford Co

Po Box 521 Alan SW #1

Derby KS 67037 Job Ticket: 52431 DST#: 1

ATTN: Nick Hutchinson/ Jef Test Start: 2013.09.16 @ 16:58:24

**Mud and Cushion Information** 

0.02 inches

Mud Type: Gel Chem Cushion Type: Oil API: deg API ppm

Mud Weight: Cushion Length: 9.00 lb/gal Water Salinity: ft

Viscosity: 58.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup>Gas Cushion Type: 0.00 ohm.m Gas Cushion Pressure:

Resistivity: psig Salinity: 4000.00 ppm

**Recovery Information** 

Filter Cake:

Recovery Table

Length ft	Description	Volume bbl		
0.00	3515 GIP	0.000		
50.00	M,O,G 10%mud 20%oil 70%gas	0.246		
300.00	O,M,G 25%oil 25%mud 50%gas	1.676		

Total Length: 350.00 ft Total Volume: 1.922 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 52431 Printed: 2013.09.17 @ 05:29:38

Temperature (deg F)

Trilobite Testing, Inc

Ref. No:

52431

Printed: 2013.09.17 @ 05:29:38



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

# FIELD SERVICE TICKET

1718 08721 A

DATE OF -	PRESSURE PUIV	IPING & WIRELINE	1 - 26	2S-12	2 V	DATE	TICKET NO	o anno		
DATE OF JOB	13-13	DISTRICT Pratt,	transas	NEW WELL	WELL -	PROD IN	J WDW		DRDER NO.:	(That
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THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

SERVICE

REPRESENTATIVE



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

# FIELD SERVICE TICKET

1718 08773 A

PRESSURE PUMPING & WIRELINE  DATE TICKET NO.										
DATE OF 9-18-13	DISTRICT PART	NEW WELL	OLD WELL	PROD IN		CUSTOME ORDER NO	R			
CUSTOMER HATCHING	LEASE A	-177		hitero y coustales:		er i i i i	1			
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FIELD SERVICE ORDER NO.

MATTAL

REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

SERVICE



10244 NE Hwy. 61 P.O. Box 8613 Pratt, Kansas 67124 Phone 620-672-1201

# FIELD SERVICE TICKET

1718 00774 A

CONTINUATION OF 1718-8773

DATE OF 9	-18-1	Ro ver	NETDICT Prost	of bearbolt	ton all of se	NEW WELL	OLD 🗆	PPOD DIN	TICKET NO		LISTOMED	
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THE ABOVE MATERIAL AND SERVICE

FIELD SERVICE ORDER NO.

REPRESENTATIVE M. CO MATTAL

ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

SERVICE



Hutchinson Oil Co

21-21-11 Stafford Co

Po Box 521

Alan SW #1

Derby KS 67037

Job Ticket: 52432 DST#: 2

ATTN: Nick Hutchinson/ Jef Test Start: 2013.09.17 @ 08:42:14

### GENERAL INFORMATION:

Formation: **Arbuckle** 

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 10:56:14 Tester: Chris Staats 47

Time Test Ended: 17:21:29 Unit No:

3560.00 ft (KB) To 3600.00 ft (KB) (TVD) Reference Elevations: 1822.00 ft (KB) Interval:

Total Depth: 3600.00 ft (KB) (TVD) 1809.00 ft (CF)

Time

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 13.00 ft

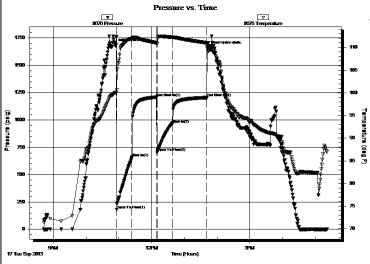
Serial #: 8676 Outside

Press@RunDepth: 3561.00 ft (KB) 965.66 psig @ Capacity: 8000.00 psig

Start Date: 2013.09.17 End Date: 2013.09.17 Last Calib.: 2013.09.17 Start Time: 08:42:19 End Time: 2013.09.17 @ 10:53:44 17:21:29 Time On Btm: Time Off Btm: 2013.09.17 @ 13:42:29

TEST COMMENT: IF: Strong blow BOB 1 1/2 min

ISI: Fair blow back 5" FF: Strong blow BOB 1 min FSI: Fair blow back 5"



(Min.)	(psig)	(deg F)	
0	1678.08	100.02	Initial Hydro-static
3	180.52	100.08	Open To Flow (1)
31	654.78	112.00	Shut-In(1)
76	1208.26	110.99	End Shut-In(1)
77	705.79	110.82	Open To Flow (2)
104	965.66	112.24	Shut-In(2)
167	1204.67	111.03	End Shut-In(2)
169	1652.96	110.13	Final Hydro-static

PRESSURE SUMMARY

Pressure Temp Annotation

### Recovery

Length (ft)	Description	Volume (bbl)			
0.00	2540' GIP	0.00			
1470.00	M,W 10%mud 90%w ater Trace amoun	t (17.63			
180.00	O,G,M,W 1%oil 9%gas 40%mud 50%w	at2.52			
240.00	O,G,W,M 1%oil 24%gas 25%w ater 50%	6r3.37			
* Recovery from multiple tests					

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

Trilobite Testing, Inc. Ref. No: 52432 Printed: 2013.09.18 @ 07:45:07



**FLUID SUMMARY** 

DST#: 2

Hutchinson Oil Co 21-21-11 Stafford Co

Po Box 521 Derby KS 67037 Alan SW #1

Job Ticket: 52432

ATTN: Nick Hutchinson/ Jef Test Start: 2013.09.17 @ 08:42:14

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:60.00 sec/qtCushion Volume:bbl

Water Loss: 8.79 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 5000.00 ppm Filter Cake: 0.02 inches

### **Recovery Information**

### Recovery Table

Length ft	Description	Volume bbl
0.00	2540' GIP	0.000
1470.00	M,W 10%mud 90%w ater Trace amount of c	il 17.632
180.00	O,G,M,W 1%oil 9%gas 40%mud 50%w ater	2.525
240.00	O,G,W,M 1%oil 24%gas 25%w ater 50%mud	3.367

Total Length: 1890.00 ft Total Volume: 23.524 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 52432 Printed: 2013.09.18 @ 07:45:07

90

Temperature (deg F)

95

100

85

110

105

Trilobite Testing, Inc

Ref. No:

52432

Printed: 2013.09.18 @ 07:45:07

70

75

80