



KANSAS CORPORATION COMMISSION 1155170
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- 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:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

- Letter of Confidentiality Received
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: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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 <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Northern Natural Gas Co.
Well Name	OB 27-42
Doc ID	1155170

All Electric Logs Run

Spectral Gamma Ray
Induction
Microlog
CBL
Sonic
Dens-Nuetron

Form	ACO1 - Well Completion
Operator	Northern Natural Gas Co.
Well Name	OB 27-42
Doc ID	1155170

Tops

Name	Top	Datum
Heebner	3428	-1609
Douglas	3457	-1648
Lansing	3622	-1803
Stark Shale	3880	-2061
BKC	3970	-2151
Miss Chert	4058	-2239
Kind. SH.	4147	-2328
Viola	4280	-2461
Simpson	4376	-2557
Arbuckle	4457	-2638

Customer Tres Management, Inc.	Lease No.	Date 6-22-13
Lease OB	Well # 27-425"	
Field Order # 8628	Station Pratt, Kansas	Casing 8 7/8"
Type Job C.N.W. - Surface	Depth 1,749 Feet	County Pratt
	Formation	State Kansas
		Legal Description 27-265-11W

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 8 7/8" 24 Lb.	Tubing Size	Shots/Ft	535 sacks	5 A-con with 38	RATE	PRESS	ISIP
Depth 1,749 Feet	Depth	From	To	12.6 Lb./Gal., 11.89 Gal./s	Max		5 Min.
Volume 11.2 Bbl.	Volume	From	To		Min		10 Min.
Max Press 1,500 PSI	Max Press	From	To	360 sacks common with 26	Avg	Calcium Chloride, .25	15 Min.
Well Connection Plug Container	Annulus Vol.	From	To	15.6 Lb./Gal., 5.23 Gal./s	HHP Used	1.20 CU.FT./St.	Annulus Pressure
Plug Depth 1,707 Feet	Packer Depth	From	To	Flush 109.2 Bbl. Fresh water	Gas Volume		Total Load

Customer Representative Jim Browning	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37,216	27,463	70,959
Driver Names Messick	McGraw	DALE
		JOE
		AARON

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:30 AM					Trucks on location and hold safety meeting.
					Casing in well and rig circulating upon arrival.
8:34	300			5	Start Fresh water Pre-Flush.
	300		10	5	Start mixing 535 sacks A-con Blend cement.
	300		212	5	Start mixing 360 sacks common cement.
	-0		289		stop pumping. Shut in well. Release Top Rubber Plug. Open Well.
8:43	150			5	Start Fresh water Displacement.
					Plug down.
			20		Open release. Insert
					Water pump quit working on pump truck
					Hook up to rig pump to displace cement.
10:10	400				Plug down. Circulated cement to pit.
	1,500				Pressure up.
					Release pressure.
					Insert held.
					Wash up pump truck.
11:00					Job Complete
					Thank You.
					Clarence, Joe, Mike, Dale, Aaron

Customer <i>TRES-MANAGEMENT</i>	Lease No.	Date <i>06-27-13</i>
Lease <i>OB</i>	Well # <i>27-42</i>	
Field Order # <i>8382</i>	Station <i>PRATT KS</i>	Casing <i>5 1/2</i>
		Depth <i>4513'</i>
Type Job <i>CNW 5 1/2 long string</i>	Formation	County <i>PRATT</i>
		State <i>KS</i>
		Legal Description <i>27-26-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>	<i>DV Tool</i>							
Depth <i>4513</i>	Depth <i>2710'</i>	To		Pre Pad	Max		5 Min.	
Volume <i>106</i>	Volume <i>64</i>	From	To	Pad	Min		10 Min.	
Max Press <i>2,000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>P.C</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4909'</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert J. [Signature]</i>
Service Units <i>37900 33708 20920 19960 21010</i>		
Driver Names <i>Sullivan Melhorn LORANCE</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<i>on bc softy meduy</i>
					<i>RUN 122 JTS 5 1/2 # 15.5 csg.</i>
<i>4:20 am</i>					<i>CASING ON BOTTOM</i>
<i>4:30</i>					<i>HOOK UP circ csg.</i>
<i>5:30</i>	<i>150</i>		<i>40</i>	<i>4.5</i>	<i>1st mix A-con cmt @ 13.0ppg. 115sk</i>
			<i>36</i>	<i>5</i>	<i>1st mix AA-2 cmt 150sk @ 15.3ppg.</i>
					<i>cmt mixed shut down. wash lining, perf.</i>
			<i>42</i>	<i>6</i>	<i>Release Plug AND ST DISP w/H²O</i>
			<i>64</i>		<i>1st mud</i>
	<i>250</i>		<i>70</i>		<i>1st PSI</i>
	<i>550</i>			<i>4.</i>	<i>SLOW RATE.</i>
<i>6:15</i>	<i>1,000</i>		<i>106</i>		<i>Plug down. Float Head</i>
<i>6:20</i>					<i>DROP OPENING TOOL - DV. TOOL</i>
<i>6:35</i>	<i>800</i>				<i>OPEN DV. - CORE-COMMENT</i>
<i>6:40</i>					<i>HOOK UP TO circ 4 hr.</i>
					<i>JOB COMPLETE</i>
					<i>BOTTOM STAGE</i>
					<i>Thank you</i>

BASIC

energy services, L.P.

TREATMENT REPORT

Page 2 of 2 TOP STAGE

Customer <i>TRES- MANAJANT</i>	Lease No.	Date
Lease <i>OB</i>	Well # <i>27-42</i>	<i>06-28-13</i>
Field Order # <i>8382</i>	Station <i>PRA71 KS</i>	Casing <i>5 1/2</i>
	Depth <i>2710'</i>	County <i>PRA71</i>
Type Job <i>cnw 5 1/2 long stay</i>	Formation	Legal Description <i>27-26-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth <i>2710'</i>	Depth	From	To	Pre Pad	Max			5 Min.
Volume <i>64</i>	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection <i>PC</i>	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Johnson</i>
Service Units		
Driver Names		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:08 AM ISO</i>			<i>3</i>		<i>St SPACER</i>
					<i>St mixing A-con @ 12.6 ppg.</i>
			<i>124</i>	<i>4.9</i>	<i>cmt mixed shut down washing w/ 10.0 ppg.</i>
					<i>Release Plug</i>
				<i>5.5</i>	<i>St Pump</i>
					<i>Let + Psi</i>
	<i>600</i>		<i>53</i>	<i>2</i>	<i>Show Rate circ 20 Bbl cmt Pit</i>
	<i>1200</i>		<i>64</i>		<i>Plug down</i>
<i>12:05</i>	<i>2,400</i>				<i>Close D.V. Tool</i>
					<i>CORD 20 bbl CEMENT</i>
			<i>7</i>	<i>2</i>	<i>Plug RH w/ 30 sk A-con</i>
			<i>5</i>		<i>Plg m.H w/ 10 sk</i>
					<i>SOB Complete</i>
					<i>Thank you</i>

Customer: TRES MANAGEMENT	Lease No.	Date: 7-6-2013
Lease: OB	Well #: 27-42	
Field Order #: 08554	Station: PRATT, KS.	Casing: 5 1/2"
Type Job: CNW - SQUEEZE	Formation	Legal Description: 27-26-11
		Depth
		County: PRATT
		State: Ks.

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: 5 1/2"	Tubing Size: 2 7/8"	Shots/Ft	CMT -	Acid: 20 SKS. PREMIUM		RATE	PRESS	ISIP
Depth: 10 RET. / 4335'	Depth: 4335'	From	To	Pre Pad: @ 1.18 CVFT	Max			5 Min.
Volume: .25 BBL	Volume: 16.8 BBL	From	To	Pad	Min			10 Min.
Max Press: 500	Max Press: 2000	From	To	Frac: TBG. VOL = 16.8 BBL	Avg			15 Min.
Well Connection: S.V.	Annulus Vol: 49.3			CSG. VOL = .25 BBL	HHP Used			Annulus Pressure
Plug Depth: 4335'		From	To	Flush: 17 TO TOP PERF	Perf Volume			Total Load

Customer Representative: JIM BROWNING	Station Manager: K. GORDLEY	Treater: K. LESLEY
Service Units: 71183 37586 27463 19831 19862		
Driver Names: GORDLEY LESLEY MATTEL PHYE		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:00AM					ON LOCATION - SAFETY MEETING
8:15AM					RIG UP TO WELLHEAD TBG. #BACKSIDE
9:00AM	1200		2	.5	ESTABLISH INJECTION RATE
{					SET CMT. RETAINER @ 4335'
{					PERFS @ 4345'
11:05AM			4	2	MIX 20 SKS. PREMIUM CMT. @ 15.6 PPG
11:30AM	1200		2	.5	MAKE SURE WE CAN STILL PUMP INTO W/H #2
11:43AM	400		12	2	SPOT CMT. @ RETAINER
11:50AM					STING INTO RETAINER
11:56AM	1500-1900		3	.25	SQUEEZE ON PERFS
12:12PM					SHUT DOWN - PSI FELL
12:14PM	1100		3	.25	PSI UP ON SQUEEZE
12:18PM					STING OUT OF RETAINER
12:20PM	200		32	3	REVERSE OUT
12:40PM					PULL STINGER OUT OF WELL
					JOB COMPLETE,
					THANKS -
					KEVIN LESLEY

TREATMENT REPORT

Customer TROS MANAGEMENT INC	Lease No.	Date 7-9-13
Lease OB 27-47	Well # 27-42	
Field Order # 0664	Station PIATT	Casing
Type Job CNW SQ	Formation	Legal Description 27-26-11
	Depth	County PIATT
		State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size 2 3/4"	Shots/Ft 4		Acid CMT 50 SACS	Rate Premium	PRESS 1000 1000	ISIP 350	
Depth 4265	Depth 4055	From 4265	To 4266	Pre-Pad Acid 500 15%	Max HCL 2	1000	5 Min.	
Volume 4.7	Volume 15.7	From	To	Pad	Min 1/2	500	10 Min.	VACUUM
Max Press 2000	Max Press	From	To	Frac	Avg 1 1/2	800	15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth 4055	From	To	Flush	Gas Volume		Total Load 17 29	

Customer Representative	Station Manager	Treater
Service Units 37900	77686 19905	19826 19866
Driver Names MARSH	YOUNG	LAURENCE
		19907
		KG

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:30 AM					TRUCKS ON LOCATION / SAFETY MEETING
10:25	500			1	Pump H ₂ O, 1000 hole
10:30	2000		7	.5	Pressure up to 2000
11:10			8		Released PSI
					ORDER 500 gallons 15% HCL Acid
1:30					TRUCK ON LOCATION w Acid
					Perfs 4265 Packer ^{string} 4263
2:05				2	SPOT ACID - 12 ACID 4 1/2 BBL H ₂ O
			16.5		PHI PACKER TO 4055 GOT PACKER
	500	500		.5	Pressure Annulus to 500
	500	500		.5	Pressure Tubing to 500
	1000	1000		.5	Pressure Tubing to 1000 - Bleed to 400
2:30	750	750		.5	START TREATING 1/2 BPM @ 750 LBS
	700	700	2	1.3	2 BBL OUT 1.3 BPM @ 700 LBS
	900	900		2	2 BPM @ 900 LBS
	800	800	9	2.1	9 BBL OUT 2.1 BPM @ 800 LBS
2:37	350	350	13		13 BBL out shut down ISIP 350 LB
	0	0			10 min on vacuum
3:10		600	10	2	MIX 50 SACS OF H COMONT (10 BBL)
3:15		400	0		START H ₂ O DISP
3:20		500		2	2 BPM @ 500 LBS
		600	10.4	2	10.4 DISP CMT @ PERFS

TREATMENT REPORT

Customer TRES MANAGEMENT	Lease No.	Date 7-9-13
Lease 03	Well # 27-42	
Field Order # 8664	Station PRATT	Casing 5 1/2 Depth
Type Job CAL SQ	Formation	County PRATT State KS
		Legal Description 27-26-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 2 3/8	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth 4355	Depth 4055	From	To	Pre Pad	Max		5 Min.	
Volume 4.7	Volume 15.7	From	To	Pad	Min		10 Min.	
Max Press 2000	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth 4055	From	To	Flush	Gas Volume		Total Load	

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
			15.7		CLEARED PACKER @ 15.7
			16		SHUT DOWN 16 BBBS OUT
		1000			WAIT 10 MIN.
				.5	PUMP 1 BBL AT 1/2 BBL PER MIN
3:40			17		SHUT DOWN WAIT 10 MIN 17 BBBS OUT
3:20		1200		.3	PUMP 1 BBL @ 3/10 TH BPA
3:30			18		SHUT DOWN WAIT 30 MIN 18 BBBS OUT
3:50		1400		.25	PUMP 1/2 BBL @
4:30			18 1/2		SHUT DOWN WAIT 10 MIN 18 1/2 BBL OUT
4:30		1500			PRESSURE UP TO 1500 + HOLD
4:35		0			RELEASED PSE
4:35		100		1	START REVERSE OUT
4:38		200		2	2 BPM @ 200 LBS
4:41		300	7.5	2	2 BPM @ 300 LBS 7.5 BBL OUT
4:55		200	30	2	PUMPED 30 BBBS H2O TO REVERSE OUT / SHUT IN
5:00					PULLED 3 STAMPS
5:05		1000			PRESSURED TUBING TO 1000 LBS / SHUT IN
		1000			
					JOB COMPLETE
					THANK YOU
					MICHAEL

Customer TRES MANAGEMENT	Lease No.	Date 7-15-13
Lease O B	Well # 27-42	
Field Order # 8550	Station PRATT KS	Casing
Type Job ACNW	Formation VIOLA	Legal Description 27-26-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size 2 7/8	Shots/Ft		Acid 300 gal 15%	RATE	PRESS	ISIP	285
Depth	Depth	From 4280	To	Pre Pad	Max 2 1/2	1926	Min.	0
Volume	Volume 16 1/4	From	To	Pad	Min 1 1/2	711	10 Min.	
Max Press	Max Press	From	To	Frac	Avg 2 1/2		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Plug Depth 210	From	To	Flush	Gas Volume		Total Load	346

Customer Representative SIM DORNING	Station Manager GORDLEY	Treater M'GUIRE
Service Units 32316	33703	
Driver Names M'GUIRE	WHITFIELD	

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1325					ON LOCATION / SAFETY MET
1350					RIG UP
1357				44	START ACID
1400			71	45	ACID IN ON FLUSH
			146		LOADED
1404		1000	146 1/2		PRESSURE UP
1407		1500			UP PRESSURE
1413		1750			UP PRESSURE
1422		2000	149		UP PRESSURE
1423		1926		.2	TREATING
1427		1519		.9	UP RATE
1428		911	175	1	ACID ON PERFS
1428		711	18	13	UP RATE
1430		746	196	2 1/2	UP RATE
1431		887	219	2 1/2	UP RATE
1432		859	24	2 1/2	ACID CLEARED
1436		285	346		SHUT DOWN

JOB COMPLETE
THANK YOU