

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
June 2009  
**Form Must Be Typed  
Form must be Signed  
All blanks must be Filled**

*ORIGINAL*

OPERATOR: License # 32119  
Name: Northern Natural Location  
Address 1: 1111 South 103rd Street  
Address 2: \_\_\_\_\_  
City: Omaha State: NE Zip: 68124 + \_\_\_\_\_  
Contact Person: Michael Loeffler  
Phone: ( 402 ) 398-7103  
CONTRACTOR: License # 34541  
Name: Ninnescah Drilling, LLC  
Wellsite Geologist: Frank Mize, #365  
Purchaser: NA

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: 10/1/12 Original Total Depth: 4296

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 #: \_\_\_\_\_

<u>9/29/12</u>	<u>9/29/12</u>	<u>10/26/12</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 151-22396-00-00

Spot Description:  
NW NE NW NW Sec. 1 Twp. 27 S. R. 22  East  West  
190 Feet from  North /  South Line of Section  
845 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Pratt  
Lease Name: WIW Well #: #1  
Field Name: Cunningham  
Producing Formation: Viola (Injection)  
Elevation: Ground: 1764 Kelly Bushing: 1777  
Total Depth: 4296 Plug Back Total Depth: 4296  
Amount of Surface Pipe Set and Cemented at: 1848 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: 60000 ppm Fluid volume: 1780 bbls  
Dewatering method used: Chemical Dewatering

Location of fluid disposal if hauled offsite:  
Operator Name: Guard Disposal, OK  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

**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.

Signature: [Signature]  
Title: Consulting Engineer Date: 12/13/12

**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: Dog Date: 12/18/12

RECEIVED  
KANSAS CORPORATION COMMISSION  
**DEC 17 2012**  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Northern Natural Location Lease Name: WIW Well #: #1  
 Sec. 1 Twp. 27 S. R. 22  East  West County: Pratt

**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 checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>MAI/MFE, MPD/MDN, MSS, MML, SGS</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Winfield</td> <td>1806</td> <td>-29</td> </tr> <tr> <td>Heebner</td> <td>3395</td> <td>-1618</td> </tr> <tr> <td>Lansing</td> <td>3588</td> <td>-1816</td> </tr> <tr> <td>Stark</td> <td>3865</td> <td>-2088</td> </tr> <tr> <td>BKC</td> <td>3960</td> <td>-2183</td> </tr> <tr> <td>Mississippian</td> <td>4056</td> <td>-2279</td> </tr> <tr> <td>Kinderhook</td> <td>4121</td> <td>-2344</td> </tr> </table>	Name	Top	Datum	Winfield	1806	-29	Heebner	3395	-1618	Lansing	3588	-1816	Stark	3865	-2088	BKC	3960	-2183	Mississippian	4056	-2279	Kinderhook	4121	-2344
Name	Top	Datum																							
Winfield	1806	-29																							
Heebner	3395	-1618																							
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BKC	3960	-2183																							
Mississippian	4056	-2279																							
Kinderhook	4121	-2344																							

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
Water String	17"	13 3/8"	48	212	Class A	240	NA
Surface	12 1/4"	9 5/8"	36	1848	Class A	500	Cellflake, 2% Salt
Production	8 3/4"	7"	26	4290	Class A	200	10% salt, 2%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	2700	Class A	250	3% CCL, 1/4 Cello Flake, DV tool @ 2700'

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
OPEN Hole	4290-4296	500 gals 15% mud acid	4290-4296
		RECEIVED KANSAS CORPORATION COMMISSION DEC 17 2012 CONSERVATION DIVISION WICHITA, KANSAS	

TUBING RECORD:	Size: <u>3 1/2 Lined</u>	Set At: <u>4293</u>	Packer At: <u>4261</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Injection well</u>				
Estimated Production Per 24 Hours	Oil Bbls. <u>NA</u>	Gas Mcf <u>NA</u>	Water Bbls. <u>NA</u>	Gas-Oil Ratio <u>NA</u>	Gravity <u>NA</u>

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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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## TREATMENT REPORT

Customer <b>Tres Management, Inc.</b>	Lease No.	Date <b>10-3-12</b>
Lease <b>NNG WJW</b>	Well # <b>1</b>	
Field Order # <b>6998</b>	Station <b>Pratt, Kansas</b>	Casing <b>9 5/8"</b>
Type Job <b>C.N.W. - Surface</b>	Depth <b>1852 Feet</b>	County <b>Pratt</b>
	Formation	State <b>Kansas</b>
		Legal Description <b>T-275-11W</b>

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size <b>9 5/8"</b>	Tubing Size <b>3 1/2"</b>	Shots/Ft <b>360</b>	From <b>0</b>	To <b>1852</b>	Rate <b>1.89 Gal./St.</b>	Press <b>2.12 CU.F./St.</b>	ISIP <b>5 Min</b>
Depth <b>1852 Feet</b>	Depth	From	To		Max <b>1.89 Gal./St.</b>		
Volume <b>143.2 Bbl.</b>	Volume	From	To		Min <b>1.89 Gal./St.</b>		
Max Press <b>1,000 P.S.I.</b>	Max Press	From	To		Ang <b>1.23 Gal./St.</b>		
Well Connection <b>Plug Container</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>8 1/2 Feet</b>	Packer Depth	From	To		Gas Volume <b>140 Bbl. Fresh Water</b>		Total Load

Customer Representative <b>Richard Oaks</b>	Station Manager <b>David Scott</b>	Treater <b>Clarence R. Messick</b>
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Service Units <b>37,216</b>	<b>19,903</b>	<b>19,905</b>	<b>70,999</b>	<b>19,918</b>	<b>19,960</b>	<b>21,010</b>			
Driver Names <b>Messick</b>	<b>Mattal</b>	<b>Phye</b>	<b>Yolung</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:15					Trucks on location and hold safety meeting.
					Casing in well and rig circulating upon arrival.
					Stop circulating. Install plug container.
8:12		1,500			Shut in well. Pressure Test. Release pressure.
8:15	400			5	Start Fresh water Pre-Flush.
8:18	400		10	6	Start mixing 360 sacks A-con Blend cement.
8:40	200		146	5	Start mixing 160 sacks common cement.
	-0-		180		Stop pumping. Shut in well. Wash pump and lines. Release Top Rubber Plug. Open Well.
9:00	150			5	Start Fresh Water Displacement.
9:33	600		140		Plug down. Pressure up to 1,000 P.S.I. It all held.
					Release Pressure. Insert held Reprussur.
					Wash up pump truck. well to 400 P.S.I. a
10:15					Job Complete. Shut it in.
					Thank You.
					Clarence, Milte, Dale, Steve
					Circulated 100 Bbl cement to pit



rgy services, L.P.

Pg. #1 of #2

TREATMENT REPORT

Company: **TRES MANAGEMENT** Lease No. \_\_\_\_\_ Date: **10-11-2012**  
 Lease: **NING WIW** Well # **1**  
 Field Order # **06893** Station \_\_\_\_\_ Casing **7"** Depth \_\_\_\_\_ County **PRATT** State **KS.**  
 Type Job: **CNW - 7" TWO STAGE** Formation: **TD-4290'** Legal Description: **1-27-11W**

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
7" x 23"				Pre Pad	Max	<b>SI = 40'</b>	5 Min.	
Depth	Depth	From	To	Pad	Min		10 Min.	
Volume	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To	<b>601 - H<sub>2</sub>O</b>	HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	<b>106 - MUD</b>	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	<b>TOTAL</b>	Flush				
				<b>167 BBL</b>				

Customer Representative: **RICHARD ORK** Station Manager: **D. SCOTT** Treater: **K. LESLEY**

Service Units	37586	19907	19889	19843	10959	19918	33708	20920				
Driver Names	LESLEY	GORDON	MARQUEZ	PERSON			ED					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:00 AM					ON LOCATION - SAFETY MEETING
}					RUN 103 JTS. 7" x 23" CSG.
					CENT. - #1 / BASKET - #38
					DV TOOL - TOP OF #38 @ 2701'
					CSG. ON BOTTOM
3:45 PM				HOOK UP TO CSG. / BREAK CIRC. W/ RIG	
3:45 PM				CIRC. 1 HR. - SAFETY MEETING	
4:00 PM				PRESSURE TEST LINES	
x 4:15 PM					
5:30 PM			24	3	SUPER FLUSH II
}			5	3	H <sub>2</sub> O SPACER
			34	3	MIX 120 SKS. A-CON @ 13 PPG
			24	3	MIX 100 SKS. AA-2 @ 15.3 PPG
					WASH PUMP & LINE CLEAN - DROP PLUG
			0	3	START H <sub>2</sub> O DISPLACEMENT
		61	3	SWITCH TO MUD DISPLACEMENT	
		80	3	LIFT PRESSURE	
		100	3	SLOW RATE	
5:46 PM	3500		106	3	PLUG DOWN - HELD
5:45 PM					DROP DV OPEN PLUG - LET FALL
6:00 PM	700				OPEN DV TOOL & CIRC. 4 HRS.
					CIRC. 18 bbl. CEMENT OVER →

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Energy services, L.P. Pg. # 2 of # 2

TREATMENT REPORT

Company <b>TRES MANAGEMENT</b>	Lease No.	Date <b>10-11-2012</b>
Well Name <b>NNG WIW</b>	Well # <b>1</b>	
Field Order # <b>06893</b>	Station <b>PRATT, Ks.</b>	County <b>PRATT</b>
Type Job <b>CNW - 7" TWO-STAGE</b>	Formation <b>TD-4290'</b>	Legal Description <b>-27-11W</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>7" X 23</b>	Tubing Size	Shots/Ft		Acid <b>DVTOOL @ 2695</b>	RATE	PRESS	ISIP
Depth <b>2095'</b>	Depth	From	To	Pre Pad	Max		5 Min.
Volume <b>106 BBL</b>	Volume	From	To	Pad	Min		10 Min.
Max Press <b>1500</b>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>2095'</b>	Packer Depth	From	To	Flush <b>106 BBL</b>	Gas Volume		Total Load

Customer Representative <b>RICHARD</b>	Station Manager <b>D. SCOTT</b>	Treater <b>K. LESLEY / GORDLEY</b>
Service Units <b>37526 19907 19903 19905 70959 19918 33708 20920 19889-19883</b>		
Driver Names <b>LESLEY GORDLEY NELSON — PHUE — ED ED</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>10:00 AM</b>			<b>94</b>	<b>3</b>	<b>* TOP STAGE *</b>
<b>11:15 PM</b>					<b>MIX 250 SKS. A-CON @ 12.10 PPG</b>
<b>11:20 PM</b>					<b>WASH PUMP &amp; LINE CLEAN</b>
<b>11:25 PM</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>DROP DV CLOSE PLUG</b>
<b>11:45 PM</b>	<b>100</b>	<b>60</b>	<b>3</b>	<b>3</b>	<b>START DISPLACEMENT</b>
<b>11:55 PM</b>	<b>700</b>	<b>100</b>	<b>3</b>	<b>3</b>	<b>LIFT PRESSURE</b>
<b>12:15 AM</b>	<b>2000</b>		<b>106</b>	<b>2.5</b>	<b>SLOW RATE</b>
					<b>PLUG DOWN - CLOSE DV TOOL</b>
					<b>CIRC. THRU JOB</b>
					<b>CIRC. 16 BBL TO PIT</b>
<b>12:30 AM</b>			<b>6, 3</b>		<b>PLUG R.H. &amp; M.H.</b>

**JOB COMPLETE!**  
**THANKS -**  
**KEVEN LESLEY**

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 DEC 17 2012  
 JOHNSON COUNTY, KS  
 WICHITA, KS