

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

ORIGINAL

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

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

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WICHITA, KS**

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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: 4301 Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

8-27-12	9-8-12	10-3-12
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 151-22397-00-00

Spot Description: _____

SW_NW_SW - Sec. 26 Twp. 26 S. R. 11 East West

1,653 Feet from North / South Line of Section

204 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Pratt

Lease Name: WIW Well #: #2

Field Name: Cunningham

Producing Formation: Viola (Injection)

Elevation: Ground: 1811 Kelly Bushing: 1824

Total Depth: 4301 Plug Back Total Depth: 4301

Amount of Surface Pipe Set and Cemented at: 1861 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: 12/12/12

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: Dlg Date: 12/18/12

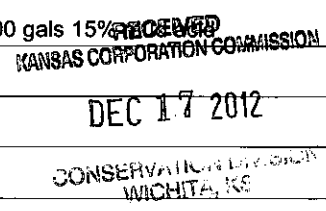
Operator Name: Northern Natural Location Lease Name: WIW Well #: #2
 Sec. 26 Twp. 26 S. R. 11 East West County: Pratt

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: MAI/MFE, MPD/MDN, MSS, MML, SGS	<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:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3421</td> <td>-1600</td> </tr> <tr> <td>Lansing</td> <td>3619</td> <td>-1800</td> </tr> <tr> <td>Stark</td> <td>3874</td> <td>-2055</td> </tr> <tr> <td>BKC</td> <td>3973</td> <td>-2149</td> </tr> <tr> <td>Mississippian</td> <td>4064</td> <td>-2240</td> </tr> <tr> <td>Kinderhook</td> <td>4149</td> <td>-2325</td> </tr> </table>	Name	Top	Datum	Heebner	3421	-1600	Lansing	3619	-1800	Stark	3874	-2055	BKC	3973	-2149	Mississippian	4064	-2240	Kinderhook	4149	-2325
Name	Top	Datum																				
Heebner	3421	-1600																				
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BKC	3973	-2149																				
Mississippian	4064	-2240																				
Kinderhook	4149	-2325																				

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	195	Class A	240	Celloflake
Surface	12 1/4"	9 5/8"	36	1861	Class A	565	Cellflake, 2% Salt
Production	8 3/4"	7"	23	4291	Class A	220	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	275	3% CCL, 1/4 Cello Flake, DV tool @ 2697'

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
OPEN Hole	4291-4301	500 gals 15% PERFORATION <div style="text-align: center;">  </div>	4291-4301

TUBING RECORD: Size: <u>3 1/2 Lined</u> Set At: <u>4277</u> Packer At: <u>446</u>		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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arising out of any
 need by BESS, this

BASIC

energy services, L.P.

TREATMENT REPORT

Customer <i>Tres Management</i>	Lease No.	Date <i>08-27-12</i>
Lease <i>UN9 adw</i>	Well # <i>2</i>	
Field Order # <i>6791</i>	Station <i>PRATT KS</i>	Casing <i>13 3/8</i>
Type Job <i>CNW 13 3/8 Gnd.</i>	Depth <i>200</i>	County <i>PRA-11</i>
	Formation	State <i>KS</i>
		Legal Description <i>26-26-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>13 3/8</i>				Pre Pad	Max		5 Min.	
Depth <i>200</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>28</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>300</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>SCAPE</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>101</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>Robert Johnson</i>	Treater <i>Robert Johnson</i>
Service Units <i>37900 33208 20926 19831 19862</i>		
Driver Names <i>Sullivan Wright</i>	<i>Perison</i>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1:45</i>					<i>on 6c Solysa mch</i>
					<i>Run 5.57 13 3/8 csg.</i>
					<i>2 containers</i>
<i>8:00</i>					<i>CASING ON BOTTOM</i>
<i>8:05</i>					<i>Hook Dip To circ</i>
<i>8:09</i>	<i>200</i>		<i>4</i>	<i>3</i>	<i>at spacer</i>
				<i>4.5</i>	<i>mix amt 240 sk annus amt 2% cc 1/4 cf. 15.64</i>
			<i>51</i>	<i>3</i>	<i>cont mix-d at Dip</i>
<i>8:30</i>	<i>200</i>		<i>28</i>		<i>plug down</i>
					<i>Circ 2 BBL CMT Pit</i>
					<i>JOB Complete</i>
					<i>Thank you</i>

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Customer: TRES Management	Lease No.:	Date: 08-31-12
Well #: 2	Well #: 2	County: PRATT
Station: PRATT KS	Casing: 9 5/8	Depth: 1885'
Order #: 2792	Formation:	Legal Description: 36-26-11
Job: CNW 9 5/8 Surface		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
9 5/8				Pre Pad	Max		5 Min.	
1885'	Depth	From	To	Pad	Min		10 Min.	
192 1/2	Volume	From	To	Frac	Avg		15 Min.	
500	Max Press	From	To	Flush	HHP Used		Annulus Pressure	
1.2	Annulus Vol.	From	To		Gas Volume		Total Load	
1874'	Packer Depth	From	To					

Customer Representative:	Station Manager: DAVE SCOTT	Treater: Robert Brown					
Service Units:	37900	33208	20920	19826	19860	19831	19862
Operator:	Sullivan	Melan	Louise	Reed			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:45	Pa				on bc soft, mostly
					Run 46 5 1/2 9 5/8 36 csg.
					cont make 1, 3, 5, 8, 13, 21, 29, 38
1:40					Casing on bottom
1:50					Hook Pig Break circ
2:15	250		5	3	1st spacer
			144	5.5	mix 395 sk A-cw Blvd 3% cc 1 1/4 ct. 12.6 109.
			36		mix tail 170 sk comon 2% cc 1 1/4 ct 15.6 109
					cont mix. Shut down
					Release Pig
				6	1st Disp
3:40	900		142 1/2	3.5	plug down
					circ. 90 bar cont to pit

303 Complete

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face trespass arising from any well or instrument used in the performance of the services herein provided. The user of this report warrants that the information contained herein is true and correct. The user of this report warrants that the information contained herein is true and correct. The user of this report warrants that the information contained herein is true and correct.



TREATMENT REPORT

Lease No. _____ Date **9-8-12**
 Well # **2**
 Operator **Energy Management, Inc**
 Lease **NNG WIW**
 Field Order # **6984** Station **Pratt, Kansas** Casing **23Lb.** Depth **290 Feet** County **Pratt** State **Kansas**
 Type Job **C.N.W. - Two Stage Long String** Formation _____ Legal Description **28-265-11W**

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 23Lb/ft	Tubing Size 1 1/2"	Shots/Ft 120	From 258 Defoamer	To 13Lb./Gal., 10.43 Gal./sh.	Rate 28 Calcium Chloride	Press. 38	1518 FLA-322
Depth 290 Feet	Depth	From	To 100sacks AA-2 with .58	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 10 Min.
Volume	Volume	From	To 18 Gas Blot, 108 Salt, 25Lb./sh. cell plate	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 15 Min.
Max Press	Max Press	From	To 18 Gas Blot, 108 Salt, 25Lb./sh. cell plate	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 15 Min.
Well Connection Plug Connector	Annulus Vol.	From	To 18 Gas Blot, 108 Salt, 25Lb./sh. cell plate	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 15 Min.
Plug Depth 4.26 Feet	Packer Depth	From	To 18 Gas Blot, 108 Salt, 25Lb./sh. cell plate	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 15 Min.
Customer Representative Luther	Station Manager David Scott	From	To 18 Gas Blot, 108 Salt, 25Lb./sh. cell plate	From	Min 1.93 cu. FT./sh.	Max 25Lb./sh. cell plate	15 Min. 15 Min.
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Service Units	37,216	19,903	19,905	19,831	19,862
Driver Names	Messich	Mattal	Pierson		

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00					Cementer on location.
4:30					Trucks on location and held safety meeting
5:15					Minnescah Drilling start to run Float Shoe, Shoe Joint, Float Collar and a total of 99 Joints new 23Lb/ft. 7" casing. A centralizer was installed 1/2 way up on Shoe Joint and then on collars 3, 6, 9, 12, 15, 32, 35, 38 and #41. A Basket was installed above collars #2 and #36. A DV Tool was installed on top of joint #37 on 1594 Feet up from Bottom.
9:30					Casing in well. Circulate for 1 Hour.
10:06	760		24	5	Start Super Flush.
10:09	600		29	5	Start Fresh Water spacer.
10:16	600		70	5	Start mixing 120 sacks A-con Blend cement
	0		94	5	Start mixing 100 sacks AA-2 Blend cement
10:36	300		61	5	Stop pumping. Release Bottom plug.
			75	5	Start Fresh water Displacement.
			168	5	Start Drilling mvd Displacement.
11:07					Start to lift cement.
					Plug down.
					Pressure up.
					Release Pressure. Inserts held.
11:15					Release D.V. Tool opening Device.
11:34	800				Open DV Tool.
					Hook up to rig pump to circulate for 4 hours

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TREATMENT REPORT

Operator Management, Inc.	Lease No.	Date 9-8-12
Well # 2	Well # 2	
Field Order # 6984	Station Pratt, Kansas	County Pratt
Type Job C.N.W. - Two Stage Longstring (Top Stage)	Formation	State Kansas
		Legal Description 26-265-11W

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 23 1/2"	Tubing Size 23 1/2"	Shots/Ft		275 sacks	A-CON	RATE	PRESS
Depth	Depth	From	To	38 Calcium Chloride	25 Lb./st.	ISIP	Blend cement with
Volume	Volume	From	To	12.6 Lb./Gal.	11.89 Gal./st.	5 Min	cell floke
Max Press	Max Press	From	To		Avg	10 Min	15 Min.
Well Connection Plug Depth	Annulus Vol. Packer Depth	From	To		HHP Used		Annulus Pressure
		From	To	Flush	Gas Volume		Total Load
				107 Bbl. Fresh Water			

Customer Representative	Station Manager	Treater
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Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Stop circulating. No cement circulated
3:23	400			5	Start Fresh water Pre-Flush.
	400		10	6	Start Mixing 275 sacks A-CON Blend Cemen
	-6-		114		Stop pumping. Release D.V. Closing Device.
3:47	100			5	Start Freshwater Displacement.
			50	5	Start to lift cement.
4:09	900		107		Plug down. Circulated 17 Bbl cement.
	1,400				Pressure up and close D.V. Tool.
					Washup pump truck after plugging Rat and
6:00					Job Complete. Mouse holes.
					Thank You.
					Clarence, Mite, Jesse

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