

ORIGINAL

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32119

Name: Northern Natural Gas

Address 1: 1111 South 103rd Street

Address 2: _____

City: Omaha State: NE Zip: 68124 + 1000

Contact Person: Michael Loeffler

Phone: (402) 398-7103

CONTRACTOR: License # 34127

Name: Tomcat Drilling LLC

Wellsite Geologist: Frank S. Mize

Purchaser: N/A

Designate Type of Completion:

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ SWD ☐ SIOW

☐ Gas ☐ ENHR ☐ SIGW

☐ CM (Coal Bed Methane) ☐ Temp. Abd.

☐ Dry ☒ Other Monitoring

(Core, WSW, Expl., Cathodic, 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

☐ Plug Back: _____ Plug Back Total Depth

☐ Commingled Docket No.: _____

☐ Dual Completion Docket No.: _____

☐ Other (SWD or Enhr.?) Docket No.: _____

7/16/2009 8/1/2009 8/13/2009

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

API No. 15 - 151-22,336-00-00

Spot Description: SE/4

NE NW SE Sec. 1 Twp. 27 S. R. 11 ☐ East ☒ West

2,311 Feet from ☐ North / ☒ South Line of Section

2,290 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☒ SE ☐ SW

County: Pratt

Lease Name: Guthrie Well #: 1-31

Field Name: _____

Producing Formation: Viola

Elevation: Ground: 1751 Kelly Bushing: 1761

Total Depth: 4500 Plug Back Total Depth: 4446

Amount of Surface Pipe Set and Cemented at: 8 5/8" @ 1635 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 AIT I NR 10-5-09
(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: Crown Energy

Lease Name: 60 ac. in N/2 - NE/4 License No.: 09-14609

Quarter NE Sec. 4 Twp. 28 N S. R. 12 ☐ East ☒ West

County: Alfalfa Docket No.: _____

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.

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: Michael J. Loeffer

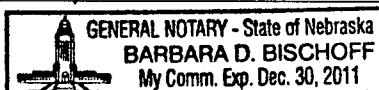
Title: Director of Certificates Date: 8/31/09

Subscribed and sworn to before me this 31 day of August

20 09

Notary Public: Barbara D. Bischoff

Date Commission Expires: Dec. 30, 2011



KCC Office Use ONLY

N Letter of Confidentiality Received

☒ If Denied, Yes ☐ Date: _____

☒ Wireline Log Received - to DANK.

☒ Geologist Report Received

☐ UIC Distribution

Operator Name: Northern Natural Gas Lease Name: Guthrie Well #: 1-31
 Sec. 1 Twp. 27 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional Sheets)	☒ Yes ☐ No	☒ Log	Formation (Top), Depth and Datum	☐ Sample
Samples Sent to Geological Survey	☒ Yes ☐ No	Name	Top	Datum
Cores Taken	☒ Yes ☐ No	Heebner	3385	-1619
Electric Log Run (Submit Copy)	☒ Yes ☐ No	Mississippian	4050	-2289
		Kinderhook Shale	4120	-2359
		Viola	4290	-2529
		Simpson Shale	4388	-2627
		Simpson Sand	4400	-2639
		Arbuckle	4470	-2709

List All E. Logs Run:

ZDL/CN/SL/DAL/GR/CBL/GRN

CASING RECORD ☒ New ☐ 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
Conductor	17 1/2"	13 3/8"	54.5	208	Class A	275	2% cc, 1/4 pps celloflake
Surface	12 1/4"	8 5/8"	24	1635	A Common	660	3% cc, 1/4 pps celloflake
Production	7 7/8"	5 1/2"	15.5	4500	A Common & AA2	366	see tickets

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 (Amount and Kind of Material Used)	Depth
4	4293 - 4296	1000 gallons 15% HCL	4293-4296

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>4251</u>	Packer At: <u>4259</u>	Liner Run: ☐ Yes ☒ No
Date of First, Resumed Production, SWD or Enhr. N/A	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify) _____	PRODUCTION RECORD RECEIVED KANSAS CORPORATION COMMISSION SEP 04 2009
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September 4, 2009

Doug Louis, Director
Conservation Division
Kansas Corporation Commission
130 S. Market Street – Room 2078
Wichita, Kansas 67202

RE: Well Completion Form

Dear Mr. Louis:

Northern Natural Gas Company recently drilled the Guthrie #1-31 monitoring well in Pratt County. Northern will file, under separate cover, the following documents to comply with K.A.R. 82-3-130, K.A.R. 82-3-106(e)(1), K.A.R. 82-3-107(d)(1) and K.A.R. 82-3-1003(e)(2)(B):

- Original and two copies of Form ACO-1
- Core analysis
- All drill stem test reports
- All cementing tickets
- Geological report
- All wireline logs in LAS and image formats

A copy of the ACO-1 form, geological report, drill stem tests, core analysis and paper copies of the logs were hand-delivered to Dan Fredlund September 1, 2009, to comply with the letter agreement between Northern and the Commission to supply this information within twenty days of the completion of the well.

If you have any questions, please contact me at (402) 536-8003.

Sincerely,

Dan Dobbins
Sr. Reservoir Analyst

cc: John McCannon
Mike Loeffler
Ann Rider
James Talcott

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 04 2009
CONSERVATION DIVISION
WICHITA, KS



RECEIVED
KANSAS CORPORATION COMMISSION
SEP 04 2009
CONSERVATION DIVISION
WICHITA, KS

STIM-LAB, Inc.

Company: Northern Natural Gas
Well: Guthrie # 1-31
Location: Pratt County, Kansas
SEC. 1, T27S-R11W

Date: 8/12/2009
Files: SL 8538
HOU or CL 57181-18XXX

FULL CORE ANALYSIS

Sample I.D.	Depth			Helium Porosity %	Air Permeability			Saturation		Grain Density g/cm	Lithology
	Top feet	Bottom feet	Kmax md		K90 md	Kvert md	Oil	Water			
							% Pore Volume				
1	4282.0	to	4293.0	1.0	N/A	0.061	N/A	0.0	82.9	2.74	Shale, 0% flu no cut
2	4293.3	to	4293.6	2.9	3.48	1.89	2.86	6.1	63.8	2.64	Chert, pyr, open vert frac, 0% flu
3	4294.1	to	4294.7	3.9	5.12	3.99	0.01	14.1	81.9	2.73	Chert, pyr, vert frac, sl tr yel flu in frac
4	4295.4	to	4296.0	1.7	0.036	0.018	0.008	0.0	81.5	2.78	Chert, sl lm, dolo, sl frac, 5% yel flu
5	4296.4	to	4296.7	7.6	2.24	1.77	3.58	0.0	93.3	2.68	Lm, foss, sl pyr, 0% flu no cut
6	4296.8	to	4297.0	6.9	2.27	1.71	0.025	6.8	80.0	2.80	Chert, sl dolo, 0% flu no cut
7	4297.0	to	4297.5	5.4	1.34	0.058	0.006	13.9	72.6	2.84	Chert, dolo, pyr, 5% yel flu
8	4297.5	to	4298.0	6.6	3.80	0.885	1.33	5.3	86.2	2.81	Dolo, sl chert, sl vug, tr yel flu in frac
9	4298.0	to	4298.3	4.9	0.108	0.078	0.027	12.2	61.5	2.85	Dolo, sl chert, tr yel flu in frac
10	4298.4	to	4299.0	5.2	1.21	0.725	0.025	13.4	62.4	2.78	Dolo, sl chert, vug, tr yel flu
11	4299.0	to	4299.5	6.9	9.17	3.00	0.079	5.4	59.2	2.85	Dolo, chert, vug, 5% yel flu
12	4300.0	to	4300.7	4.4	2.35	0.048	1.47	12.8	78.2	2.71	Dolo, sl chert, vug, sty, sl tr yel flu
13	4301.2	to	4301.6	11.9	170	63.1	139	0.0	51.2	2.87	Dolo, chert, sl frac, sl tr yel flu
14	4302.0	to	4302.7	13.5	N/A	184	N/A	0.0	45.6	2.85	Dolo, chert, vug, vert frac, 0% flu no cut
15	4303.0	to	4303.5	6.6	13.4	4.67	6.28	0.0	79.5	2.81	Dolo, open vert frac, vug, 0% flu no cut
16	4303.6	to	4304.0	12.3	229	41.5	14.5	0.0	73.3	2.65	Dolo, chert, sl vug, sl frac, 0% flu no cut
17	4304.2	to	4304.7	5.8	29.5	4.10	5.04	0.0	65.0	2.86	Dolo, chert, cav, 0% flu no cut
18	4304.7	to	4305.0	5.3	2.75	1.99	4.67	0.0	93.1	2.68	Dolo, frac, vug, 0% flu no cut
19	4305.2	to	4305.6	3.7	5.88	0.761	0.021	7.3	71.0	2.85	Chert, dolo, frac, 0% flu no cut
20	4306.4	to	4307.0	6.0	16.3	12.9	24.1	0.0	91.5	2.70	Dolo, frac, pp, tr yel flu
21	4307.0	to	4307.6	7.1	1.86	0.983	2.02	0.0	65.6	2.85	Chert, sl dolo, frac, sl vug, 0% flu no cut
22	4308.4	to	4308.6	10.1	9.45	3.68	0.328	0.0	55.0	2.87	Dolo, vert frac, 0% flu no cut
23	4308.8	to	4309.0	8.7	0.973	0.633	0.177	0.0	71.2	2.82	Dolo, pp, sl frac, 0% flu no cut
24	4309.7	to	4309.9	7.7	17.7	5.18	1.31	0.0	79.6	2.76	Dolo, chert, 0% flu no cut
25	4310.2	to	4310.5	8.3	44.5	37.4	0.319	0.0	83.3	2.77	Dolo, chert, sl frac, 0% flu no cut
26	4311.4	to	4312.0	8.1	3.22	1.51	0.350	0.0	66.8	2.87	Dolo, chert, sl vug, sl frac, 0% flu no cut
27	4312.0	to	4312.5	8.3	1.78	1.00	1.17	0.0	72.5	2.84	Dolo, vug, 0% flu no cut

FULL CORE ANALYSIS

Sample I.D.	Depth			Helium	Air Permeability			Saturation		Grain	Lithology
	Top feet		Bottom feet	Porosity %	Kmax md	K90 md	Kvert md	Oil	Water	Density g/cm	
								% Pore Volume			
28	4312.6	to	4312.9	6.8	20.5	7.83	0.737	0.0	80.7	2.80	Dolo, chert, 0% flu no cut
29	4313.3	to	4313.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, frac, 0% flu no cut
30	4314.0	to	4314.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, frac, sty, 0% flu no cut
31	4315.3	to	4316.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, sl chert, sl vug, sl tr yel flu in frac
32	4316.0	to	4316.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sty, 0% flu no cut
33	4317.7	to	4318.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, 0% flu no cut
34	4318.5	to	4319.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, v sl tr yel flu in frac
35	4319.0	to	4319.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, 0% flu no cut
36	4320.0	to	4320.4	6.1	0.863	0.384	0.051	1.7	77.6	2.81	Dolo, chert, sl vug, 0% flu no cut
37	4321.0	to	4321.6	8.0	5.62	5.17	0.523	3.9	72.2	2.68	Dolo, sl chert, sl vug, 5% yel-gld flu
38	4322.0	to	4322.6	9.4	1.14	1.09	0.483	2.0	75.0	2.80	Chert, dolo, vug, 15% yel-gld flu
39	4323.0	to	4323.5	8.3	1.87	0.757	0.310	9.0	75.4	2.76	Dolo, sl anhy, sl chert, vug, 10% yel-gld flu
40	4324.0	to	4324.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, vug, 20% yel-gld flu
41	4325.0	to	4325.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, tr yel flu in frac
42	4326.0	to	4326.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl tr yel flu in frac
43	4327.5	to	4328.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl tr yel flu in frac
44	4328.0	to	4328.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
45	4329.0	to	4329.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
46	4330.3	to	4331.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
47	4331.0	to	4331.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
48	4332.8	to	4333.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, sl tr yel flu
49	4333.4	to	4334.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
50	4334.3	to	4335.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, tr dull gld flu
51	4335.0	to	4335.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
52	4336.2	to	4336.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, tr yel flu
53	4337.3	to	4338.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, sl frac, 0% flu no cut
54	4338.0	to	4338.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, tr yel flu in frac
55	4339.0	to	4339.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, vert frac, tr yel flu in frac
56	4340.0	to	4340.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut
57	4341.0	to	4341.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Dolo, chert, 0% flu no cut

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 04 2009
CONSERVATION DIVISION
WICHITA, KS

Customer Northern Natural Gas Company		Lease No. Well # 1-31		Date 7-1-09	
Field Order # 0411	Station Pratt, Kansas	Casing 13 3/8" 48Lb	Depth 2085'	County Pratt	State KS
Type Job C.N.W. Conductor			Formation	Legal Description T-273-11W	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 13 3/8"	Tubing Size 4 1/2"	Shots/Ft	275	Acid	275 sacks Cement with	RATE	PRESS	ISIP
Depth 2085'	Depth	From	To	Pre Pad	280 lb/gal. Chloride	Max	25 lb/sk. Cellf	5 Min
Volume 32.7 Bbl	Volume	From	To	Rad	15.86 lb/gal. 5.20	Min	Gal/sk. 1.18 cu. ft	10 Min
Max Press 100 PSI	Max Press	From	To	Grac		Avg		15 Min
Well Connection Wedge	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 160 feet	Packer Depth	From	To	Flush	27 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative Jackie Sessions	Station Manager David Scott	Treater Clarence R. Messick
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Service Units 19,866	19,959	20,920	19,831	19,862				
Driver Names Messick	Shields	Phye	Gordley					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
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7-16-09 10:30 AM All Personnel involved in Conductor Pipe cement job participate in

11:15 Northern Natural Gas Company safety training.

7-17-09 7:00 PM Crew released

9:15 Trucks on location

10:30 To start Drilling start to run 5 Joints new 48Lb/Ft. 13 3/8" casing.

11:40 Casing in well. Circulate for 15 minutes.

100 Start Fresh Water Pre-Flush.

100 Start mixing 275 sacks of cement.

100 Start Fresh Water Displacement.

50 Plug down. Shut in well. @ 0030

1:00 Circulated 15 sacks cement to pit. 3 Bbl

Job Complete

Thank You.

Clarence, Kevin, Billy, Dale

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 04 2009
CONSERVATION DIVISION
WICHITA, KS



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

1718 0411 A

DATE TICKET NO.

DATE OF JOB 7-1-09		DISTRICT Pratt, Kansas		NEW WELL ☒ OLD WELL ☐		PROD ☐ INJ ☐ WDW ☐		CUSTOMER ORDER NO.:		
CUSTOMER Northern Natural Gas Company				LEASE Guthrie				WELL NO. 1		
ADDRESS				COUNTY Pratt				STATE Kansas		
CITY		STATE		SERVICE CREW K. Gordley, C. Messier, B. Shields, D. Pyle						
AUTHORIZED BY				JOB TYPE:						
EQUIPMENT#		HRS	EQUIPMENT#		HRS	EQUIPMENT#		HRS	TRUCK CALLED	
19,866									DATE 7-17-09	
19,959-20,920									AM 6:50	
19,831-19,862									ARRIVED AT JOB PM 7:00	
									START OPERATION PM	
									FINISH OPERATION PM	
									RELEASED PM	
									MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

	ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P	CP100	Common		275 ⁵⁸		
P	CC102	Celflake		69Lb		
P	CC109	Calcium Chloride		518Lb		
P	CC131	Sugar		200Lb		
P	E101	Heavy Equipment Mileage		30mi		
P	E113	Bulk Delivery		1941m		
P	E100	Pickup Mileage		15mi		
P	CE240	Blending and Mixing Service		275 ⁵⁸		
P	5003	Service Supervisor		1ea		
P	CE200	Pump Charge: 0 Foot To 500 Foot		1ea		
P	E736	Flame Retardent Coveralls		3ea		

RECEIVED
KANSAS CORPORATION COMMISSION
SEP 3 4 2-23
CONSERVATION DIVISION
WICHITA, KS

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE <i>Clarence R. Marshall</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>D. R. Marshall</i>
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FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer Northern Natural Gas Co.		Lease No.		Date 7-21-09	
Lease Guthrie		Well # 1-31			
Field Order # 1730296	Station Pratt	Casing 8 7/8	Depth	County Pratt	State KS
Type Job Cnw-8 5/8 Surface			Formation	Legal Description 1-27-11	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 7/8	Tubing Size	Shots/Ft	Cement 350 gals	Acid Acid Blend 2.31 yield	RATE	PRESS	ISIP	
Depth 1639	Depth	From	To 235 gals	Pre Pad Common 1.18 yield	Max		5 Min.	
Volume 1034.2	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 1537	Packer Depth	From	To	Flush 101.5	Gas Volume		Total Load	

Customer Representative Jackie Sessions Station Manager Dave Scott Treater Steve Orlando

Service Units	27283	19907	27463	19960/19918	19831/19862			
Driver Names	Orlando	Gordley	Lesley	Dale Phyo	E.S. McGraw			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2:30 PM					On location 2 Run Float Equipment
					Trucks on location - Safety meeting
					Run 39 Its 8 5/8 Casing
					Centralizers 1-2-3-8-13-18-23-28-33-38
					Basket on It # 32
					Casing on Bottom
					Hookup to Casing - Break Circ w/ Cig
9:09	250		4	5	H2O Ahead
9:16	300		14.4	5	Mix 350 gals Acid Blend @ 12.40 #/gal
9:40	300		49.3	5	Mix 235 gals Common @ 15.86 #/gal
					Shut Down - Release Top Rubber Plug
9:54	400		0	5	Start H2O Displacement
10:15	1500		101.5	4	plug Down - Held
					Circulation - Three Jobs 5th
					Circulated 25 bbl Cement to
					Steel pits. Added Sugar 4 bags (200)
					Job Complete
					Thanks Steve
10:25	1000		1	1	pressure up to 1000# to see if it holds - Held for 40 minutes



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FIELD SERVICE TICKET

1718 0296 A

DATE _____ TICKET NO. _____

DATE OF JOB 7-21-09 DISTRICT Pratt		NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:	
CUSTOMER Northern Natural Gas Co.		LEASE Guthrie WELL NO. 1-31	
ADDRESS		COUNTY Pratt	STATE KS
CITY _____ STATE _____		SERVICE CREW Orlando, Duby, Phy, McBr...	
AUTHORIZED BY		JOB TYPE: CNW Surface	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
27333	2 1/2						7-21-09			2:00
19707	0 1/2					ARRIVED AT JOB				2:30
19760/19718	0 1/2					START OPERATION				1:00
19331/1-263	3 1/2					FINISH OPERATION				10:30
						RELEASED				11:30
						MILES FROM STATION TO WELL	15			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
P C P101	AC ON Blord		350 yd		
P C P100	Common		235 yd		
P C C102	Coll Stake		146 lb		
P C C104	Calcium Chloride		1429 lb		
P C S105	Top Rubber Cement Plug 8 5/8"		1 ea		
P C S253	Guide Shoe - Regular 8 5/8"		1 ea		
P C S1453	Slapper Type Insert Float Valve 8 5/8"		1 ea		
P C S1753	Centralizer - 8 5/8"		10 ea		
P C S1903	Backbit 8 5/8"		1 ea		
P C S3000	Industrial Rubber Throat Lock Kit		2 ea		
P C C131	Sugar		200 lb		
P E101	Heavy Equipment Mileage		45 mi		
P E113	Bulk Delivery		413 tn		
P E100	Pickup mileage		15 mi		
P C E240	Cement Service Charge		585 yd		
P S003	Service Supervisor		1 ea		
P C E202	Depth Charge 1001' - 2000'		1 ea		
P C E504	Plus Container		1 ea		
P E736	Flame Retardant Coveralls		4 ea		

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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL

SERVICE REPRESENTATIVE Steve Orlando	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Steve Orlando
---	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

PAGE 1

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energy services, L.P.

TREATMENT REPORT

Customer NNG	Lease No.	Date 8-3-09
Lease CUTHRIE	Well # 1-31	
Field Order # 0016A	Station PRATT, KS	Casing 5 1/2 Depth 4498 County PRATT State KS
Type Job CNW-L.S.	Formation TD-4500'	Legal Description 1-27-11

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth 4498	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 4498	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative JACILIE	Station Manager SCOTTY	Treater GORDLEY
Service Units 19907 27283 27463 19831-19867 19826-19860 19826-19860		
Driver Names LAG KEEVIN BDUY EJ EJ LACHANCE		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0100					DN LOCATION
0400					RUN 4506' 5 1/2 15.5" (SG-112) JS.
					RUN AFM FLOAT SHOE, LATCH
					DOWN BAFFLE IN 1st COLLAR.
					24 RECIPROCATING SCRATCHER
					ON JTS 3-4-5-6 - 6 EACH.
					TURBOLIZER ON COLLARS 1-3-
					5-7-9-11-13-16-19-22-25-
					28-31-34-37-40-43-46-49-
					52-55-58-61-64-MID 67-
					MID 68-69-72-75-78-81-
					84-87-90-93-96-99-102-
					105-108-111 - 41 TOTAL
					CEMENT BASKET - 67-68
					DU TOOL - TOP 67 AT 1802'
0830					DROP BULK - BREAK CIRC
					THG BOTTOM - RECIPROCATING
					CIRC. FOR 2 HOURS

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TREATMENT REPORT

Customer <u>NWGS</u>		Lease No.		Date	
Lease <u>OUTHREE</u>		Well # <u>1-31</u>		8-3-09	
Field Order # <u>0016A</u>	Station <u>PRATT, KS</u>	Casing <u>5 1/2</u>	Depth <u>4498</u>	County <u>PRATT</u>	State <u>KS</u>
Type Job <u>CNW-4.5</u>		Formation <u>TD-4500'</u>		Legal Description <u>1-27-11</u>	

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

Customer Representative JACKIE Station Manager SCOTT Treater CORDLEY

Service Units									
Driver Names									

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
------	-----------------	-----------------	--------------	------	-------------

BOTTOM STAGE:

1040	200		12	6	Pump 12 bbl. SUPERFLUSH
	200		5	6	Pump 5 bbl. H ₂ O SPACER
	200		121	6	Pump 266 sk. A-COW CNT.
					3% CC, 1/4" H ₂ O CELLFACER, 3% CFR
					HT 1210229, 2.570 ft/sk, 15.5 H ₂ O
	200		24	6	Pump 100 sk. HAZ CNT.
					10% SALT, 3% CFR, 25% DEFUM.
					.5% FLA-322, 1% GIBROK, 5" H ₂ O
					GRISONITE, 153 ppg, 1.370 ft/sk, 5.7
					STOP - 100% H ₂ O Pump & LINE
					DROP LATCH DOWN PLUG
	0		0	6	START DISPLACE WITH H ₂ O
	400		66	6	START MUD DISPLACES
	900		100	4	SLOW RATE
1140	1800		106.27	4	PLUG DOWN - HOLD
1145					DROP DU OPEN PLUG
1200	800				OPEN DU TOOL - 800'
					CIR. 4 HOURS
					DID CIRC. 1 bbl. CEMENT
					TO PIT

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TREATMENT REPORT

Customer <i>NWG</i>		Lease No.		Date	
Lease <i>GUTHRIE</i>		Well # <i>1-31</i>		<i>8-3-09</i>	
Field Order # <i>0016A</i>	Station <i>PRAIRIE, KS.</i>	Casing <i>3 1/2</i>	Depth <i>4498</i>	County <i>PRAIRIE</i>	State <i>KS.</i>
Type Job <i>CNW-L.S.</i>			Formation <i>TD-4500</i>	Legal Description <i>1-27-11</i>	

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

Customer Representative <i>JACKIE</i>	Station Manager <i>SCOTT</i>	Treater <i>GORMLEY</i>
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[illegible]

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
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	Pressure	Pressure				TOP STAGE:
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[illegible]

WSP 700	10	5	Pump 10 bbl. H ₂ O
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200	79	5	Pump 125 sk 14-cow cont
-----	----	---	-------------------------

					3% CC 1/4 H/CX CELLFAC
--	--	--	--	--	------------------------

AT 12.0 DDP 2.56 GFT/KN 15.4 H

200	15	5	Ремонт 75 см. соединит. 'А'
-----	----	---	-----------------------------

					2% @ 1/4 # 11 1/2" x 1/2" x 1/2"
--	--	--	--	--	----------------------------------

					AT 15.6 200 1.180 FT/4 5.7 H ₂
--	--	--	--	--	---

					STOP = 1 DROP DUCLOSE-Penic
--	--	--	--	--	-----------------------------

1	0	5	START SUBPROGRAM 14
---	---	---	---------------------

500	40	3	SLOW RATE
-----	----	---	-----------

1640	1800		42.9	3	PLUG DOWN-DV CLOSED
------	------	--	------	---	---------------------

					AT 1500#
--	--	--	--	--	----------

					CIRCULATE 20 bbl. (4 MEN)
--	--	--	--	--	---------------------------

TD PET = 44 s A-CONC-MENT

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					TTHM/MS - NEVBR
--	--	--	--	--	-----------------

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FIELD SERVICE TICKET

1718 0016 A

DATE _____ TICKET NO. _____

DATE OF JOB 8-3-09		DISTRICT PRATT, KS		NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:	
CUSTOMER NORTHERN NATURAL GAS CO.		LEASE GAUTHRIE		WELL NO. 1-31	
ADDRESS		COUNTY PRATT		STATE KS.	
CITY		STATE		SERVICE CREW KEVIN KEVIN, ES	
AUTHORIZED BY		JOB TYPE: GRW - LOW STRONG			
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
19907		19831		19826	
27283		19862		19860	
27463	1 1/3	19826			
		19860			
TRUCK CALLED 8-3-09				DATE 8-3-09 AM 1030 TIME	
ARRIVED AT JOB				AM 0830 PM	
START OPERATION				AM 1040 PM	
FINISH OPERATION				AM 1700 PM	
RELEASED				AM 1730 PM	
MILES FROM STATION TO WELL				19	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	A-CON CEMENT	266 SK.			
CP105	HAZ CEMENT	100 SK			
CP101	A-CON CEMENT	175 SK			
CP100	COMMON CEMENT	75 SK			
CC102	CELL FLAKE	111 lb.			
CC105	DEFORMER	24 lb.			
CC109	CALCIUM CHLORIDE	1248 lb.			
CC111	SACT	479 lb.			
CC112	CFR	104 lb.			
CC115	GAS BLOK	94 lb.			
CC129	FLA-322	47 lb.			
CC201	GILSONITE	500 lb.			
CC154	SUPER FLUSH	500 gal			
CC131	SUGAR	200 lb.			
CF401	TWO SPACE CEMENT COLLAR	1 EACH			
CF501	STOP RING	3 EACH			
CF601	5/8 LATCH DOWN PLUG	1 EACH			
CF1251	5/8 AFU ROAT SHOE	1 EACH			

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CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE K. Gonsky	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
---	---

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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FIELD SERVICE TICKET

1718 ~~0017~~ A

CONTINUATION

DATE: TICKET NO. 0016 H

DATE OF JOB 8/3/09 DISTRICT PRATT KS				NEW WELL ☒ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:					
CUSTOMER NORTHERN NATURAL GAS CO.				LEASE GUTHRIE WELL NO. 1-3					
ADDRESS				COUNTY PRATT		STATE KS.			
CITY		STATE		SERVICE CREW					
AUTHORIZED BY				JOB TYPE: CNW-LOWESTRING					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
						ARRIVED AT JOB		AM PM	
						START OPERATION		AM PM	
						FINISH OPERATION		AM PM	
						RELEASED		AM PM	
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

[illegible]

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WICHITA, KS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL			

SERVICE REPRESENTATIVE <i>K. GORDLEY</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
--	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.