

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

Form ACO-1  
September 1999  
Form Must Be Typed

Operator: License # 32119  
Name: Northern Natural Gas Company  
Address: 1111 S. 103rd Street  
City/State/Zip: Omaha, NE 68124  
Purchaser: N/A

Operator Contact Person: Michael Loeffler  
Phone: ( 402 ) 398-7103

Contractor: Name: Sterling Drilling  
License: 5142

Wellsite Geologist: Monte Markley  
Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     SWD     SLOW     Temp. Abd.
- Gas     ENHR     SIGW
- Dry     Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows: GAS STIMULI

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_

11/17/2005	01/13/2006	01/19/2006
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 095-21999-0000  
County: Kingman  
S/2 SW NW Sec. 19 Twp. 27 S. R. 10  East  West  
3135 feet from S N (circle one) Line of Section  
628 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW

Lease Name: Glenn Well #: 19-14  
Field Name: Cunningham

Producing Formation: Viola  
Elevation: Ground: 1721 Kelly Bushing: 1734

Total Depth: 4332 Plug Back Total Depth: 4326  
Amount of Surface Pipe Set and Cemented at 1605 Feet

Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 1605  
feet depth to Surface w/ 600 sx cmt.  
ACT I WORK 6-22-06

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content 300 - 600 ppm Fluid volume 5800 bbls  
Dewatering method used Hauled all fluid to Oklahoma disposal site

Location of fluid disposal if hauled offsite:  
Operator Name: Richard Gray Farms Inc.

Lease Name: Gray Farms License No.: 355765  
Quarter NW Sec. 15 Twp. 24N S. R. 7  East  West  
County: Garfield, OK Docket No.: OCC-OGP 3-110.2.G.5

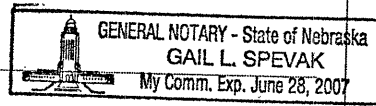
**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information 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. Loeffler  
Title: Dir. of Certificates Date: 1-20-2006

Subscribed and sworn to before me this 20<sup>th</sup> day of January,  
2006.

Notary Public: Gail L. Spevak  
Date Commission Expires: 6-28-07



**KCC Office Use ONLY**

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

✓

Operator Name: Northern Natural Gas Company Lease Name: Glenn Well #: 19-14  
 Sec. 19 Twp. 27 S. R. 10  East  West County: Kingman

**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.

**RECEIVED**  
 KANSAS CORPORATION

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

CBL  
 GRN/CCL  
 AISF  
 BHC  
 PE/CAL  
 CWGR  
 CBL/CCL/GRN

**JAN 20 2 05** Formation (Top), Depth and Datum  Sample

CONSUME	Top	Datum
Heaber	3355	-1621
Lansing "A"	3550	-1816
Mississippian	4014	-2280
Kinderhook Shale	4080	-2346
Viola	4275	-2541

*ANNUUS*  
*WATER*  
*CONF*  
*TEST*

*ok*  
*ok*

CASING RECORD <input checked="" 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
Conductor	17 1/2"	13 3/8"	48	169 ft.	Class H	500	3% CaCl & 2% gel
Surface	12 1/4"	8 5/8"	24	1605 ft.	60/35 poz, Class A	600, 200	6% gel, 3% CaCl & 2% gel, 3% CaCl
Production/Liner	7 7/8" / 4 3/4"	5 1/2" / 3 1/2"	15 1/2 / 9.3	4193' / 4332'	(see below)	2 stage 5 1/2	single stage 3 1/2

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	5 1/2 "	Class A	75&90 / 265	3% CaCl, 1/4# Celeflake & 10% Salt, .3% CFR, .3%FLA / 3% CaCl, 1/4# CeleFlake
___ Plug Back TD	3 1/2"	Class AA-2	45	5% Ca Set, 18% Salt, .3% CFR, .3% FLA-322, .75% gas block
___ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
4	4280 - 4300		2000 gallons of 15% HCL	Depth 4280-4300

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8" & 2 1/16"	3919' & 4247'	4247'	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.			Producing Method		
N/A			<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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.)

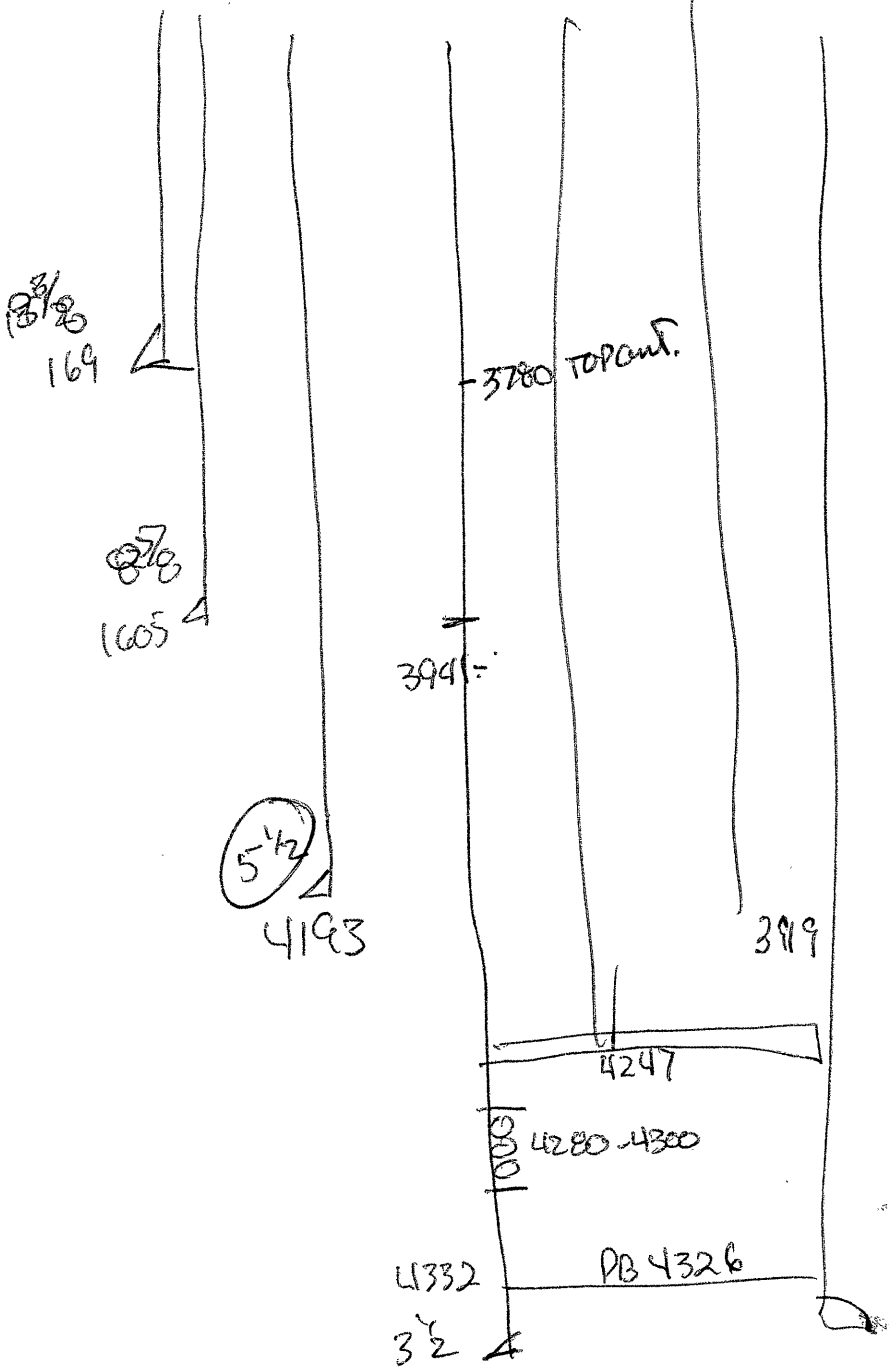
METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

Production Interval

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JAN 20 2006

CONSERVATION DIVISION  
WICHITA, KS



*Handwritten signature or initials, possibly "C. B. G." with a date "1/20/06" written vertically.*

# ALLIED CEMENTING CO. INC.

22992

Federal Tax I.D. [REDACTED]

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

Medicine LDC.

DATE 11-17-05	SEC. 19	TWP. 27S	RANGE R10W	CALLED OUT 9:30 AM.	ON LOCATION 11:30 AM.	JOB START 3:00 PM.	JOB FINISH 3:30 P.M.
LEASE Grant	WELL # 19-14	LOCATION Patton & Kingman Co.		COUNTY Kingman	STATE KS		
OLD OR <u>NEW</u> (Circle one)			line 2 1/2 N E into				

CONTRACTOR Stepling #4

TYPE OF JOB Conductor

HOLE SIZE 17 1/2 I.D. 180 FT

CASING SIZE 13 3/8 DEPTH 170 FT

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 180 FT

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15 FT

CEMENT LEFT IN CSG. 15 FT

PERFS.

DISPLACEMENT Freshwater 24 1/2 Bbls

OWNER T & C NNG.

CEMENT

AMOUNT ORDERED 500sx A + 3% CC + 2% Gel 200# sugar

EQUIPMENT

PUMP TRUCK CEMENTER Dawid W.

# 368 HELPER Dalaynew.

BULK TRUCK

# 356 DRIVER Jerry C.

BULK TRUCK

# DRIVER

COMMON 500 A @

POZMIX @

GEL 10 @

CHLORIDE 18 @

ASC @

Sugar 200# @

Pad material @

HANDLING 528 @

MILEAGE 15 x 528

REMARKS:

P.F. on bottom break line  
Pump 500sx A + 3% CC + 2% Gel  
shut down wash up on  
plug Displace 24 BBLs, Fresh  
water shut in cement did  
line

CHARGE TO: T & C NNG.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TOTAL

SERVICE

DEPTH OF JOB 170 FT

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE @

MILEAGE 15 @

MANIFOLD Head Rent @

No max Rental @

TOTAL

1 3/8" PLUG & FLOAT EQUIPMENT

1-wooden Plug @

\_\_\_\_\_ @

\_\_\_\_\_ @

\_\_\_\_\_ @

\_\_\_\_\_ @

TOTAL

TAX \_\_\_\_\_

ANY APPLICABLE TAX TOTAL CHARGE  
WILL BE CHARGED DISCOUNT  
UPON INVOICING

SIGNATURE [Signature]

[Signature] Dan Murta  
PRINTED NAME

RECEIVED  
KANSAS CORPORATION COMMISSION  
JAN 20 2006  
CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., INC.

22973

Federal Tax I.D. [REDACTED]

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
MEDICINE LODGE

DATE <u>11-20-05</u>	SEC. <u>19</u>	TWP. <u>27S</u>	RANGE <u>10W</u>	CALLED OUT <u>4:30 am</u>	ON LOCATION <u>7:00 am</u>	JOB START <u>10:50 am</u>	JOB FINISH <u>12:45 pm</u>
LEASE <u>OLEN</u>		WELL # <u>19-14</u>		LOCATION <u>CUNNINGHAM, KS, 2 W TO CO.</u>		COUNTY <u>KINGMAN</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)			LINE, <u>2 1/2 W, 5/INTO</u>				

CONTRACTOR STERLING #4  
 TYPE OF JOB SURFACE CASING  
 HOLE SIZE 12 1/4" T.D. 1,615'  
 CASING SIZE 8 3/8" DEPTH 1,606'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2" DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 900 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 41.42'  
 CEMENT LEFT IN CSG. 42.42'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 99 3/4 bbl. FRESH WATER

OWNER T&C / NNC  
 CEMENT  
 AMOUNT ORDERED 600 SK 65:35:16 + 3% cc + 1/4" FLO-SEAL; 200 SK CLASS A + 3% cc + 2% GEL 300# SUGAR.

EQUIPMENT  
 PUMP TRUCK CEMENTER BILL M.  
 # 397 HELPER CHRIS L.  
 BULK TRUCK  
 # 353 DRIVER JERRY C.  
 BULK TRUCK  
 # 356 DRIVER CARL O.

COMMON 200 @  
 POZMIX \_\_\_\_\_ @  
 GEL 4 @  
 CHLORIDE 26 @  
 ASC \_\_\_\_\_ @  
Flo Seal 150 # @  
ALW 600 @  
Pad Material @  
Sugar 300 # @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 HANDLING 867 @  
 MILEAGE 15 x 867

REMARKS:

PIPE OLD BOTTOM, BREAK CIRCULATION, PUMP PRE-FILLER, PUMP 600 SK 65:35:16 + 3% cc + 1/4" FLO-SEAL; 200 SK CLASS A + 3% cc + 2% GEL, STOP PUMPS, RELEASE PLUG, START DISPLACEMENT, SEE LIFT, SLOW RATE, PUMP PLUG, FLOAT HELD, DISPLACED WITH 99 3/4 bbl. FRESH WATER, CIRCULATED CEMENT.

CHARGE TO: T&C / NNC  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL

SERVICE

DEPTH OF JOB 1,606'  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @  
 MILEAGE 15 @  
 MANIFOLD HEAD RENT @  
Nonex Rental @

TOTAL

PLUG & FLOAT EQUIPMENT

8 3/8" GUIDER SHOES 1 @  
8 3/8" AFS INSERT 1 @  
8 3/8" BASKET 1 @  
8 3/8" CENTRALIZERS 9 @  
8 3/8" RUBBER PLUG 1 @

TOTAL

TAX \_\_\_\_\_

TOTAL CHARGE

DISCOUNT

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

**ANY APPLICABLE TAX WILL BE CHARGED UPON INVOICING**

SIGNATURE [Signature]

Don Munda  
 PRINTED NAME

RECEIVED  
 KANSAS CORPORATION  
 CONSERVATION DIVISION  
 WICHITA KS  
 JAN 20 2005

**TREATMENT REPORT**



Customer ID	Date
Customer T&C CONSULTING	12-11-05
Lease GLENN	Well # 19-14
Field Order # 11365	Station PRATT, KS
Casing 5 1/2	Depth 4194
County KINGMAN	State KS.
Type Job LONG STRING - NW	Formation TD-4200'
	Legal Description 19-27-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 4194	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 446	Packer Depth	From	To	Flush		Gas Volume		Total Load

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 JAN 20 2006  
 CONSERVATION DIVISION  
 WICHITA KS

Customer Representative: DITW Station Manager: HAITON Treater: (214) 464

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
	0		0	5 1/2	START DISP. w/H <sub>2</sub> O
	100		31	5 1/2	START DISP. w/H <sub>2</sub> O
	250		70	4	START LIFT (CEMENT)
	600		93	3	SLOW RATE
1440	1200		98 1/2	3	PLUG DOWN
					RELEASE PSI - HELD
1445					
1500	650				DROP D.V. DRAINING PLUG
					OPEN 11.7" TOOL - 650'
					CIRC 17 HOURS - CONC CEMENT/FAC
1700					2 <sup>nd</sup> STAGE 12/2/05
	200		131	5 1/2	11.7" CEMENT 11.7" 2.77 #/S
					265 SK H-CON CEMENT
					3% CC 1/4 #/SK CEMENT
					STOP PUMP - RELEASE CLOSE PLUG
	0		0	5 1/2	START DISP w/H <sub>2</sub> O
1750	1100		67 1/2	3	PLUG DOWN
					RELEASE PSI - D.V. IS CLOSED
					CIRC 45 HOURS - 22 bbl.
					PLUG RT - 25 SK H-CON

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • Phone (620) 672-1201 • Fax (620) 672-5383

1400 5013 67124-8613 - 711 HOURS - KENDRICK

**TREATMENT REPORT**



Customer ID		Date	
Customer TAC CONSULTING		12-11-05	
Lease GLENN		Lease No.	Well #
Field Order # 11365		Station PRATT KS	State KS
Casing 5 1/2	Depth 4194	County KINGMAN	Legal Description 19-27-10
Type Job LONG STRING - NW		Formation T1 - 4200'	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid LOST CIRC PERFOR	RATE	PRESS	ISIP	
Depth 4194	Depth	From	To	Pre-Pad A1.3010'	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.	KANSAS CORPORATION COMMISSION			HHP Used		Annulus Pressure	
Plug Depth 4146	Packer Depth	From	To	Flush	Gas Volume		Total Load	
		RECEIVED JAN 20 2006						

Customer Representative DAN CONSERVATION DIVISION	Station Manager WICHITA, KS	Treater GUILDFEY
--	--------------------------------	---------------------

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
6:00					ON LOCATION
7:30					93 JKS RUN 4190' 5 1/2 15.5" CG WEATHERFORD F.E. TWO STAGE TOOL AT 2838' CIRC 3 TIMES RUNNING IN 5 1/2 AT 4194' - CIRC 1 HOUR
1:30					1 <sup>st</sup> STAGE 12/11/05 HOOK UP TO ACID SERVICE EQ. NO PREFLUSH MIX CEMENT
14:10	250		37	5	75 SK. A-CUN CEMENT 3% GC 1/4 #/SK CELLFLAKE AT 11.7 200 2.79 H <sup>3</sup> /SK
	200		22	5	90 SK. AAZ CEMENT 10% SALT 3/10% CFR 3/10% FLA-322 1/4% DEFORTMEL AT 15.2 200 1.37 H <sup>3</sup> /SK STOP PUMP RELEASE 1 <sup>st</sup> STAGE LATCH DOWN PUMP

(NEXT PAGE)

# TREATMENT REPORT



Customer ID		Date	
Customer		1-3-06	
Lease		Lease No.	Well #

Field Order #	Station Pratt KS	Casing	Depth 4331TD	County	State KS
Type Job 3/4" Liner		Formation New well		Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size 2 7/8	Shots/Ft mix @ 15.6 #/GA	Acid A-A-2 - 10% salt	Pre Pad 175 GAS BLOK	3% Friction Red.	RATE	PRESS	ISIP
Depth	Depth	From	To	From	To	Max		5 Min.
Volume	Volume 25661	From	To	From	To	Min		10 Min.
Max Press	Max Press 2500	From	To	From	To	Avg		15 Min.
Well Connection	Annulus Vol.	From	To	From	To	HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	From	To	Gas Volume		Total Load

Customer Representative	Station Manager DAVE SCOTT	Treater DAVE SCOTT + ALLEN F. WERTH
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Service Units	124	125	226	346	572
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1255		300 <sup>#</sup>	5	2	owl loc, setup + Plan Job
		500 <sup>#</sup>	4	2	Pump 5 BBL H <sup>2</sup> O spacer
		500 <sup>#</sup>	3	2	Pump Super Flush
		400 <sup>#</sup>		2	Pump 3 BBL H <sup>2</sup> O spacer
1312			10	2	St mix + Pump 45 cks AA-7 cmt
				2	Fin mix - washout Pump + Line - clean
		1300 <sup>#</sup>	21		start Disp. - PSI Builds - cap. 2 x BBLs
		1850 <sup>#</sup>			21 BBLs out 1300 <sup>#</sup> PSI
		0 <sup>#</sup>			Increase PSI TO 1850 <sup>#</sup>
1330		2500 <sup>#</sup>	21		Release PSI - 0 <sup>#</sup>
					Re PSI to 2500 <sup>#</sup>
					Plug stuck in Drill collar - Release PSI.
					Knock loose washup Equip.
1430					unhook FROM Liner Pull Tag.
1515					Job complete
					thanks
					scotty - allen + crew

}

4331-TD  
4193-5 1/2"  
360' 3 1/2"  
3970-Top Liner  
207-O.C.  
3726-2 7/8 lbs