

COPY *gnd*

33739

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 32119Name: Northern Natural GasAddress P.O. Box 178City/State/Zip Cunningham, KS 67035Purchaser: N/AOperator Contact Person: Dan DobbinsPhone (316) 298-6117Contractor: Name: Pratt Well ServiceLicense: 5893Wellsite Geologist: NoneDesignate Type of Completion
 New Well Re-Entry X Workover

 X Oil SWD SLOW Temp. Abd.
 X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: Northern Natural GasWell Name: Prentice 30-21Comp. Date 4-9-78 Old Total Depth 4453

 X Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.

8-25-98 9-26-98 9-29-98
Spud Date Date Reached TD Completion Date

API NO. 15- 095-206930101County KingmanSW - SE - NW - NE - Sec. 30 Twp. 27S Rge. 10 X ^EW1227 Feet from N (circle one) Line of Section1761 Feet from E W (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
 NE SE, NW or SW (circle one)Lease Name Prentice Well # 30-21Field Name CunninghamProducing Formation ViolaElevation: Ground 1668 KB 1678Total Depth 5975 3986 TVD PBTD 5975 3986 TVDAmount of Surface Pipe Set and Cemented at 1450 FeetMultiple Stage Cementing Collar Used? Yes X NoIf yes, show depth set FeetAlternate II completion, cement circulated from feet depth to w/ sx cmt.Drilling Fluid Management Plan OWW0 12-4-98
(Data must be collected from the Reserve Pit)Chloride content 800 ppm Fluid volume 400 bblsDewatering method used N/A

Location of fluid disposal if hauled offsite:

Operator Name Geary Mud DisposalLease Name Gray License No. 284168 Quarter Sec. 15 Twp. 14N X Rng. 7 X ^EWCounty Garfield, OK Docket No. 284168

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 on 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 Dan DobbinsTitle Sr. Reservoir Analyst Date 11-18-98Subscribed and sworn to before me this 18th day of November, 1998.Notary Public Karen ElliotDate Commission Expires January 23, 1999

NOTARY PUBLIC - State of Kansas
KAREN ELLIOT
My Appt. Exp. 1-23-99

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 X KCC SWD/Rep X NGPA
 KGS Plug Other
 (Specify)

Form ACD-1 (7-91)

33739

Y90C

SIDE TWO

Operator Northwest Natural GasLease Name PrenticeWell # 30-21Sec. 30 Twp. 27S Rge. 10☐ EastCounty Kingman☒ West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken ☐ Yes ☒ No
(Attach Additional Sheets.)Samples Sent to Geological Survey ☐ Yes ☒ NoCores Taken ☐ Yes ☒ NoElectric Log Run ☐ Yes ☒ No
(Submit Copy.)

List All E.Logs Run:

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name Top Datum

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	20"	13 3/8"	54	66	Common	100	-----
Surface	12 1/4"	8 5/8"	22	1450	50-50 Poz	800	2% Gel 3% CC
Production	7 7/8"	5 1/2"	15.5	4474	50-50- Poz	30	2% Gel 18% Salt 4# Gilsomite

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: Set Liner	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	4062-4514	Standard	25	-----

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

TUBING RECORD	Size	Set At	Packer At	Liner Run ☒ Yes ☐ No
Date of First, Resumed Production, SLD or Inj. Storage Well	Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours N/A	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: METHOD OF COMPLETION

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____