

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

Operator: License # 32424

Name: HRF Exploration & Production, Inc.

Address P.O. Box 160

City/State/Zip Gaylord, MI 49735

Purchaser: _____

Operator Contact Person: Donald R. Day

Phone (517) 732-6950

Contractor: Name: Murfin Drilling Company, Inc.

License: 30606

Wellsite Geologist: JAMES DELTS

Designate Type of completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back _____ PBTD _____

Commingled _____ Docket No. _____

Dual Completion _____ Docket No. _____

Other (SWD or Inj?) _____ Docket No. _____

02-17-99 03-01-99 03-02-99
Spud Date Date Reached TD Completion Date

API NO. 15-119-20997000

County Meade

N/2 - SE - SE - Sec. 22 Twp. 33S Rge. 30 X E W

990 Feet from S/N (circle one) Line of Section

660 Feet from E/W (circle one) Line of Section

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

Lease Name Powell Farms Well # 1

Field Name Novinger

Producing Formation CHESTER

Elevation: Ground 2702 KB 11

Total Depth 6350' PBTD _____

Amount of Surface Pipe Set and Cemented at 1630 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 8-10-99 U/C
(Data must be collected from the Reserve Pit)

Chloride content 34,000 ppm Fluid volume 2,500 bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County _____ Docket No. _____

RECEIVED
7-15-99
JUL 15 1999
STATE CORPORATION COMMISSION
Wichita Kansas

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Donald R. Day

Title PRODUCTION MANAGER Date 6-10-99

Subscribed and sworn to before me this 14th day of June 1999.

Notary Public Gail M. Deering

Date Commission Expires 7-24-2001

GAIL M. DEERING
NOTARY PUBLIC - OTSEGO COUNTY, MI
MY COMMISSION EXP. 07/24/2001

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

X

JAMIE RO

SIDE TWO

Operator name HRF Exploration & Production, Inc.

Lease Name Powell Farms Well # 1

Sec. 22 Twp. 33S Rge. 30
 East
 West

County Meade

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 No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:
DIPL/GR, DAL/GR/CAL,
2 DLC/CN/ML/GR, DCBIL

Log Formation (Top), Depth and Datums			Sample
Name	Top	Datum	
LANSING	4570	-1856	
MARMATON	5206	-2492	
MORROW	5714	-3000	
MISSISSIPPIAN CHESTER	5782	-3068	
MISSISSIPPIAN ST. LOUIS	6180	-3466	
TD	6350	-3636	

CASING RECORD <u> </u> New <u> </u> 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
Surface	12 1/4"	8 5/8"	24 #	1630'	Prem+, 3%cc MidCon 2, 3%cc	125 365	
Production	7 7/8"	5 1/2"	15.5 #	6349'	Class H	290	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose: _ Perforate _ Protect Csg _ Plug Back TD _ Plug Off Zone	Depth Top/Btm	Type of Cement	# Sacks Used	Type and Percent Additives

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
5799-5814	4 JSPP	1,500 gal 15% HCl; FRAC w/8000 gal gelled 15% HCL w/N ₂	
5821-27	4 JSPP SET RBP @ ± 5820'	3,000 gal 15% HCl	
5833-36	4 JSPP		

TUBING RECORD	Size <u>2 7/8</u>	Set At	Packer At <u>5750</u>	Liner Run <u> </u> Yes <u>X</u> No
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Date of First, Resumed Production, SWD or Inj.	Producing Method <u> </u> Flowing <u>X</u> Pumping <u> </u> Gas Lift <u> </u> Other
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Estimated Production Per 24 Hours	Oil Bbls <u>1</u>	Gas Mcf <u>20</u>	Water Bbls <u>12</u>	Gas-Oil Ratio <u>20,000</u>	Gravity <u>39</u>
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Disposition of Gas: **METHOD OF COMPLETION** Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled