

STATE OF KANSAS
STATE CORPORATION COMMISSION
130 S. Market, Room 2078
Wichita, KS 67202

WELL PLUGGING RECORD
K.A.R.-82-3-117

API NUMBER 15-071-20674-0000

LEASE NAME Harding #2

TYPE OR PRINT
NOTICE: Fill out completely
and return to Cons. Div.
office within 30 days.

WELL NUMBER 2

1980 Ft. from S Section Line

1980 Ft. from E Section Line

SEC. 10 TWP. 20 RGE. 40 (E) or (W)

COUNTY Greeley

Date Well Completed 8-18-97

Plugging Commenced 5-27-98

Plugging Completed 5-27-98

LEASE OPERATOR Horseshoe Operating, Inc.

ADDRESS 500 W. Texas, Suite 1190 Midland, Tx 79701

PHONE# (915) 683-1448 OPERATORS LICENSE NO. 4894

Character of Well Gas

(Oil, Gas, D&A, SWD, Input, Water Supply Well)

The plugging proposal was approved on 3-9-98 (date)

by David Williams (witnessed by Kevin Streub) (KCC District Agent's Name).

Is ACO-1 filed? Yes If not, is well log attached? _____

Producing Formation Winfield Depth to Top 2839 Bottom 2846 T.D. 2870

Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

Formation	Content	From	To	Size	Put in	Pulled out
Winfield	Gas SW	270	0	8-5/8	270	0
2839 - 2846						
Dakota	Water					
1150 - 1200						

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plug were used, state the character of same and depth placed, from feet to feet each set. Pump 150 sxs cottonseed hulls and start cement. Pump 150 sxs 60/40 poz 6% gel cement dwn 4-1/2 casing and pressure up to 500#. Hook up to 8-5/8" and pump 10 sxs same, pressure up to 300#. Cut off and cover up.

Name of Plugging Contractor Allied Cementing License No. _____

Address P. O. Box 31 Russell, KS 67665

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: Horseshoe Operating, Inc.

STATE OF Texas COUNTY OF MIDland, ss.

Jim Dixon

(Employee of Operator) or (Operator) o

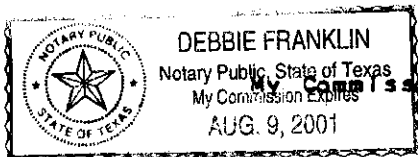
above-described well, being first duly sworn on oath, says: That I have knowledge of the facts statements, and matters herein contained and the log of the above-described well as filed the the same are true and correct, so help me God.

(Signature) _____

(Address) 500 W. Texas Suite 1190 Midland, Tx 79701

SUBSCRIBED AND SWORN TO before me this 17 day of June, 19 98

Debbie Franklin
Notary Public



DEBBIE FRANKLIN
Notary Public, State of Texas
My Commission Expires
AUG. 9, 2001

My Commission Expires: 8-9-2001



DUAL
COMPENSATED
POROSITY LOG

COMPANY HORSESHOE OPER.
 WELL HARDING #2
 FIELD BRADSHAW
 COUNTY GREELEY STATE KS
 COMPANY HORSESHOE OPERATING INC.
 WELL HARDING #2 15-011-20674-0000
 FIELD BRADSHAW
 COUNTY GREELEY STATE KANSAS
 LOCATION
1980' FNL
1980' FEL
 SEC. 10 TWP. 20S RGE. 40W
 OTHER SERVICES:

PERMANENT DATUM	GROUND LEVEL	ELEV. <u>3571</u>	ELEV. : K.B. <u>3580</u>
LOG MEASURED FROM	K.B. <u>9</u> FT. ABOVE PERMANENT DATUM	D.F.	G.L. <u>3571</u>
DRILLING MEASURED FROM	KELLY BUSHING		
DATE	<u>JULY 14 97</u>		
RUN NO.	<u>ONE</u>		
DEPTH-DRILLER	<u>2870</u>		
DEPTH-LOGGER	<u>2870</u>		
BTM. LOG INTER.	<u>2869</u>		
TOP LOG INTER.	<u>900</u>		
CASING-DRILLER	<u>8 5/8 @ 270</u>		
CASING-LOGGER			
BIT SIZE	<u>7.875</u>		
FLUID TYPE	<u>CHEM MUD</u>		
DENS.	<u>9.8</u> <u>38</u>		
PH	<u>18.4</u> <u>9.0</u> ML		ML
SOURCE OF SAMPLE	<u>FLOWLINE</u>		ML
RM @ MEAS. TEMP.	<u>.09 @ 70</u> F		F
RMF @ MEAS. TEMP.	<u>.06 @ 70</u> F		F
RMC @ MEAS. TEMP.	<u>.11 @ 70</u> F		F
SOURCE: RMF/RMC	<u>CALC</u> <u>CALC</u>		
RM @ BHT	<u>.06 @ 102</u> F		F
TIME SINCE CIRC.	<u>1.5</u> HRS		
MAX. REC. TEMP.	<u>102</u> F @ <u>2870</u>		F @
EQUIP. LOCATION	<u>4708</u> HAYS		F @
RECORDED BY	<u>KLAUS</u>		
WITNESSED BY	<u>SKIPPER BURNS</u>		

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFULL NEGLIGENCE ON OUR PART, BE RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES, OR EXPENSES INCURRED OR SUSTAINED BY ANY PARTY FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE TERMS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS SET OUT IN OUR CURRENT PRICE LIST.

RECEIVED
 15-011-20674-0000
 5 12 98
 HARTS CORP. CO.

REMARKS

2.71 LIMESTONE MATRIX
 1044 CUBIC FEET ABHV TO 900'

VERSION: 2.46

AMIN

HART3