

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

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

API NUMBER 15-095-21283-00-00

LEASE NAME Rago Terminal

WELL NUMBER 10

1478 Ft. from N Section Line

1133 Ft. from W Section Line

SEC. 15 TWP. 30S RGE. 7 (E) or (W)

COUNTY Kingman

Date Well drilled October, 1982

Plugging Commenced August 1, 1996

Plugging Completed August 15, 1996

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

LEASE OPERATOR Phillips Pipe Line Company
370 Adams Building
Bartlesville, OK 74004

ADDRESS _____

PHONE#(918-661-7473 OPERATORS LICENSE NO. _____

Character of Well LPG Storage

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

The plugging proposal was approved on N/A - plugging approved by Kansas Dept. of Health & Env. _____ (date)

by _____ (KCC District Agent's Name).

is ACO-1 filed? N/A If not, is well log attached? _____

Producing Formation N/A Depth to Top _____ Bottom _____ T.O. _____

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
		0'	313'	13 3/8"	313'	none
		0'	847'	9 5/8"	847'	none

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

Emptied cavern of hydrocarbon and filled with brine. Pulled hanging string from well. Set cast iron bridge plug via wire line at _____ 827'. Set balanced thixotropic cement plug from 827' to 781' via tubing ("ASC" Class C w/6% Calseal, 7% salt, 1% gel, 14.5 ppg, _____ yield 1.33 cu.ft./sk). Conducted brine full mechanical integrity pressure test above plug. Ran in 2 3/8" tubing and tagged top of _____ first cement plug, then pumped the casing full of cement to the surface (Class C, 14.8 ppg, yield 1.32 cu.ft./sk). See attached _____ sketch.

Name of Plugging Contractor Pratt Well Service License No. 5893

Address Pratt, KS

Name of Party Responsible for Plugging Fees: N/A - this well regulated by KDHE

Date of _____ County of _____, ss.

W. R. Thiel, Principal Cavern Engineer, Phillips Petroleum Company (Employee of Operator) or (Operator) of above-described well, being first duly sworn on oath, says: That I have knowledge of the facts and statements, and matters herein contained and the log of the above-described well as filed that the same are true and correct, so help me God.

(Signature) W. R. Thiel

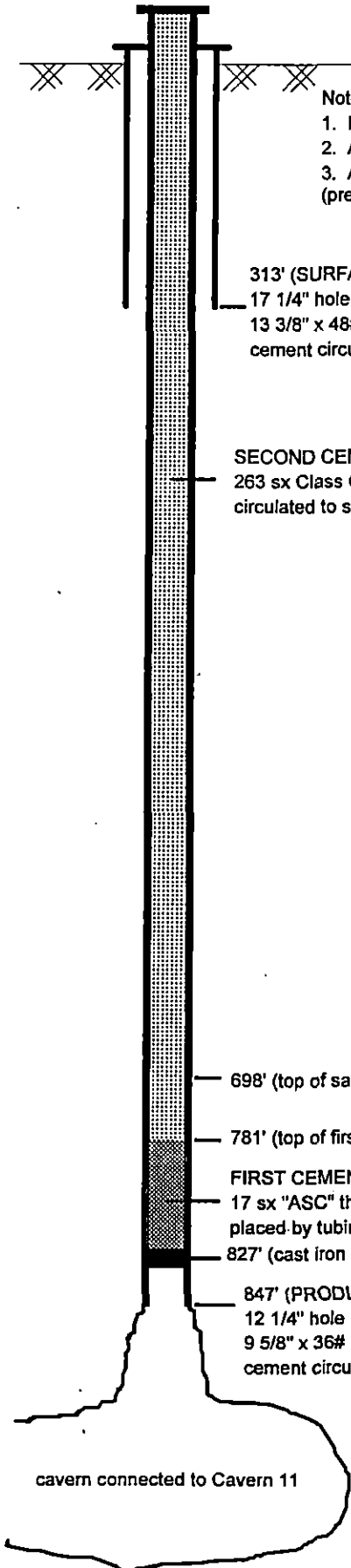
(Address) 10 D1 Phillips Building
Bartlesville, OK 74004 (918) 661-6074

SUBSCRIBED AND SWORN TO before me this 6th day of Sept

P. J. Brown
 Notary Public

My Commission Expires: March 28, 2000

PHILLIPS PIPE LINE COMPANY
Rago Cavern Well No. 10
NE4 SW4 NW4 S15 T30S R7W
Plugged 8-15-96



Notes:

1. No scale.
2. All depths reference casing head flange.
3. After placing first cement plug, pressure tested casing, brine full, for 1 hour 2 minutes on 8-7-96 (pressure was steady at 327 psig). Witnessed and approved by KDHE (Mike Cochran).

313' (SURFACE CASING)

17 1/4" hole

13 3/8" x 48# H-40 casing

cement circulated to surface: 385 sx Class A w/2% gel, 3% CaCl; circulated 100 sx to pit

SECOND CEMENT PLUG (8-15-96)

263 sx Class C (14.8 ppg, yield 1.32 cu.ft./sk)
circulated to surface via tubing

698' (top of salt)

781' (top of first cement plug)

FIRST CEMENT PLUG (8-1-96)

17 sx "ASC" thixotropic Class C w/6% Calseal, 7% salt, 1% gel)(14.5 ppg, yield 1.33 cu.ft./sk)
placed by tubing

827' (cast iron bridge plug) (8-1-96)

847' (PRODUCTION CASING)

12 1/4" hole

9 5/8" x 36# K-55 casing

cement circulated to surface: 375 sx Incor SR (circulated 130 sx to pit)

CAVERN

last logged roof: 898'

last logged TD: 985'

original TD: 1070'

cavern connected to Cavern 11