

API NUMBER 15-163-03493-00-00

LEASE NAME Nettie Unit

WELL NUMBER 4-2

 Ft. from S Section Line

 Ft. from E Section Line

SEC. 33 TWP. 9S RGE. 17W COR(W)

COUNTY Rooks

Date Well Completed

Plugging Commenced 8-14-90

Plugging Completed 8-28-90

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

LEASE OPERATOR Phillips Petroleum Company

ADDRESS Box 20-A Rt #3 Great Bend, KS. 67530

PHONE# (316) 793-8421 OPERATORS LICENSE NO. 5229

Character of Well Oil

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

The plugging proposal was approved on (date)

by (KCC District Agent's Name).

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

Producing Formation Depth to Top Bottom T.D. 3535'

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
				8 5/8"	203'	none
				5 1/2"	3521'	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 plugs were used, state the character of same and depth placed, from feet to feet each set.
Sanded bottom to 3260' ran 5 sacks cement. Shot pipe @1400', 800', 175'. Down 5 1/2" casing @600# max pressure mixed 5 sacks hulls with 300 sacks cement and shut in @300# cement circulated up the annulus and shut it in.
 (If additional description is necessary, use BACK of this form.)

Name of Plugging Contractor KELSO CASING PULLING, INC. License No. 6050

Address P.O. Box 347 Chase, Kansas 67524

NAME OF PARTY RESPONSIBLE FOR PLUGGING FEES: Phillips Petroleum Company

STATE OF Kansas COUNTY OF Rice, ss.

R. Darrell Kelso (Employee of Operator) or (Operator) of

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 that the same are true and correct, so help me God.

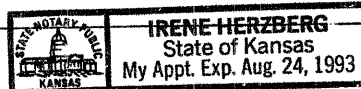
(Signature) *R. Darrell Kelso*

(Address) P.O. Box 347 Chase, KS. 67524

SUBSCRIBED AND SWORN TO before me this 14 day of Sept., 1990

Irene Herzberg
 Notary Public

My Commission Expires:



Date: May 9, 1990
 Number: 00000003

P&A Procedure for Nettie Unit #4-02

Nettie Unit No. 4-02	Procedure # 41-90
C S/2 SE SW Sec. 33-T9S-R17W	Charge Code 80-7159
Rooks County, Kansas	Lease Code 350125
Nettie Field, Arbuckle & LKC Formation	W.I. 31.65017 %
	R.I. 27.52178 %

Elevation: 2096.5' GL, 2101' KB
 Casings: 8 5/8" set @ 203' w/ 125 sx cement.
 5 1/2", 14#, set @ 3521' w/ 150 sx cement.
 4 1/2" slotted liner set from 3514' - 3535'

TD: 3535'

PBTD: 3488'

Perforations: 3409-15', 3323-35' (LKC formation)

Note: Dakota Csg. leak @ 812-923' squeezed off w/ 275 sx cement.
 Arbuckle formation plugged off w/ 4 sx cement on top of plug.

Objective: Plug and Abandon shut down well by filling casing with
 65/35 pozmix-10% gel w/ 1/4 lb/sk flocele and 5 sx hulls.

Procedure:

1. Notify KCC representative 24 hours prior to beginning plugging operations (Hays office 628-1200).
2. Determine depth of well with wireline to verify that cement will reach the bottom of the hole. If depths below 3409' are not reached, notify office for further instructions.
3. Conduct safety meetings with all personnel involved in plugging operation. Move in and rig up casing perforators. Perforate 5 1/2" csg @ 1375'. Rig down move out perforators. Move in and rig up Well Service Unit and Cementing Company. Go in hole with work string tubing to 1400' to get below anhydrite. Pump 200 sx of 65/35 pozmix-10% gel w/ 1/4 lb/sk flocele and 5 sx hulls through tubing to fill hole below 1400'. Pull tubing up to 1200' and pump 150 sx cement. Pull out tubing, rig down and move out Well Service Unit. Swedge in 5 1/2" casing and pump in 50 sx cement. Shut in under pressure.
4. Rig up to 5 1/2" - 8 5/8" annulus and pump into, if possible, with 50 sx cement and shut in under pressure.

(Total ca/c. 5 1/2" csg volume - 478 cu. ft., 20% excess, 1 cu. ft./sack yield, slurry density 13 lb/gal, water requirement - 9.13 gal/sk of mix, gives ~337 sx of 65/35 pozmix-10% gel w/ 1/4 lb/sk flocele to fill casing.)

Water requirement for 450 sx cement @ 4.6 sx/bbl = 98 bbls fresh water.

5. Check fillup in casings and outside of 8 5/8" csg. If necessary, fill to surface w/ redimix.
6. Cut off casing 3' below ground level and weld on steel plate marked with "PPCo, well name, and date plugged."
7. Restore location.

CONTRACTOR'S WELL LOG

NETTIE UNIT 4-2

MUSGROVE PETROLEUM CORPORATION
 Carmichael #2, C S/2 SW/4
 Section 33-T9S-R17W, Rooks County, Kansas

0	40	Shale	
40	203	Shale, sand & shells	COMMENCED: 11/28/50
203	675	Shale	
675	980	Shale, shells & red bed	COMPLETED: 12/12/50
980	1060	Sand, shells & red bed	
1060	1300	Shale & shells	
1300	1345	Shale	
1345	1390	Lime (Anhydrite)	
1390	1465	Shale	
1465	1760	Shale & shells	
1760	1840	Salt, shale & shells	
1840	1860	Shale & shells	
1860	1910	Shale & lime	
1910	2040	Lime	Elevation - 2098 D.F.
2040	2275	Lime & shale	
2275	2290	Lime	<u>CASING RECORD</u>
2290	2630	Lime & shale	
2630	3015	Shale & shells	Set 3-5/8" surface Casing
3015	3110	Lime & shale	@ 203', cemented w/ 125 sacks.
3110	3515	Lime	
3515	3521	Shale & lime	Set 5-1/2" casing @ 3521',
3521	3522	Arbuckle	cemented w/ 150 sacks.
3522		Rotary Total Depth	

I, P. C. Musgrove, do hereby certify that the above and foregoing is a true and correct copy of log of the Carmichael #2, Sec. 33-9-17W, Rooks County, Kansas, as reflected by files of the Musgrove Petroleum Corporation.

P. C. Musgrove
 President

Subscribed and sworn to before me a Notary Public, within and for Sedgwick County, Kansas this 19th day of December, 1950.

Madeline J. Jissels
 Notary Public

My commission expires: 12/5/51