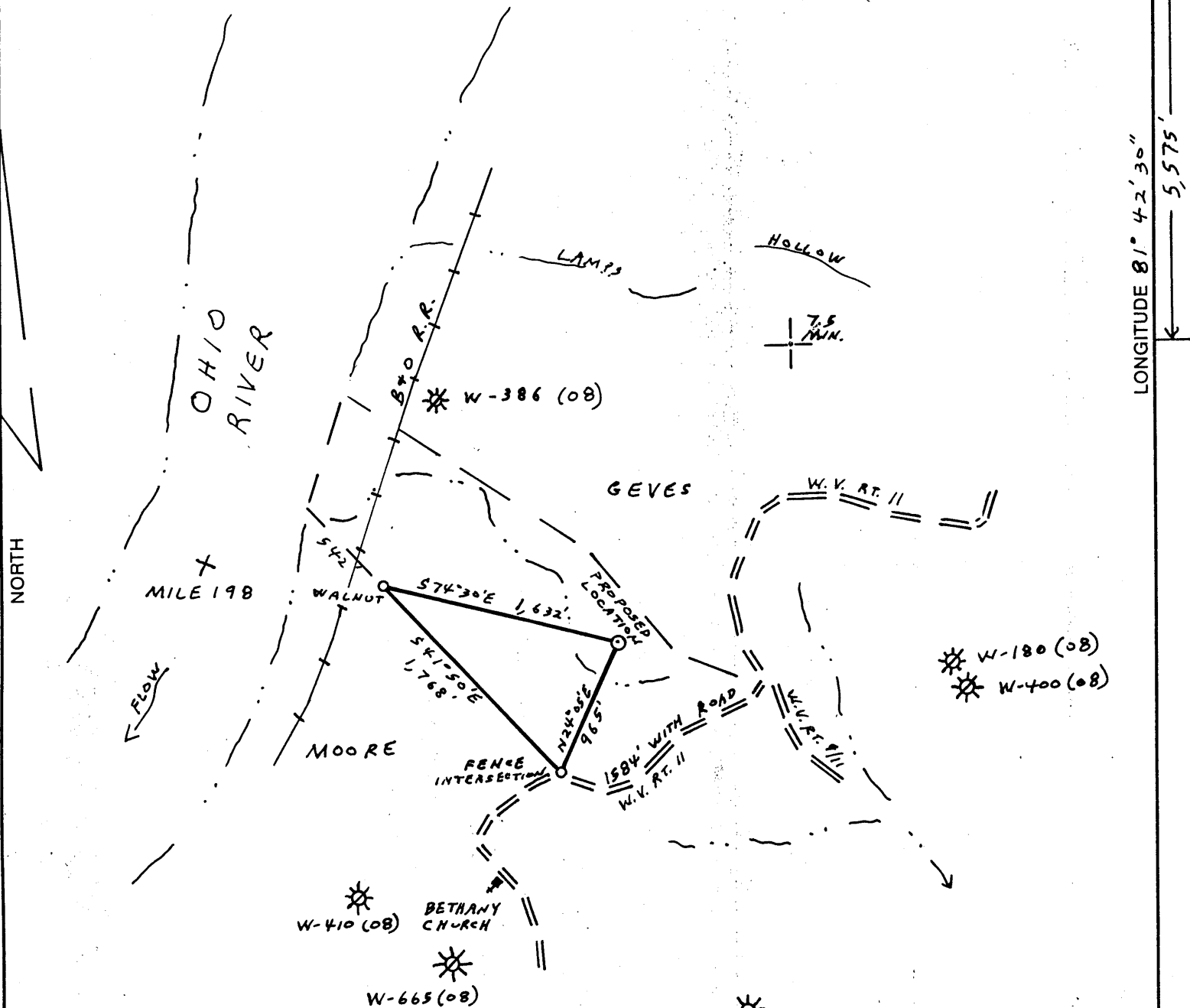


87B 10/14/86

4,950'

LATITUDE 39° 12' 30"

LONGITUDE 81° 42' 30"



REFERENCE POINTS:  
 N 2° 14' W 178' TO 10" POPLAR  
 S 80° 34' E 150' TO 16" C. OAK

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

N 18 E 6

FILE NO. 8-42  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION  
 ELEV. = 819 1700' S.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Vincent W. Wood  
 R.P.E. \_\_\_\_\_ L.L.S. 664

VINCENT W. WOOD  
 LICENSED  
 1984  
 STATE OF WEST VIRGINIA  
 LAND SURVEYOR  
 PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE NOVEMBER 20, 1985  
 OPERATOR'S WELL NO. KEM 662  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_\_\_ GAS X LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X  
 LOCATION: ELEVATION 709 WATERSHED OHIO RIVER PERMIT According to order drilled 11-7-86  
 DISTRICT HARRIS COUNTY WOOD  
 QUADRANGLE LUBECK

SURFACE OWNER VICTOR M. AND SHARON L. DAVIS ACREAGE 74  
 OIL & GAS ROYALTY OWNER VICTOR M. & SHARON L. DAVIS LEASE ACREAGE 74  
 LEASE NO. 87-08-3650

PROPOSED WORK: DRILL X CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION DEVONIAN HURON SHALE ESTIMATED DEPTH 1960'  
 WELL OPERATOR Kaiser Exploration & Mining Co. DESIGNATED AGENT R. A. PRYCE  
 ADDRESS P.O. Box B, Ravenswood, W.V. 26164 ADDRESS P.O. Box B, Ravenswood, W.V. 26164

FEB 18 1987

WOOD  
 COUNTY NAME  
 1406  
 PERMIT

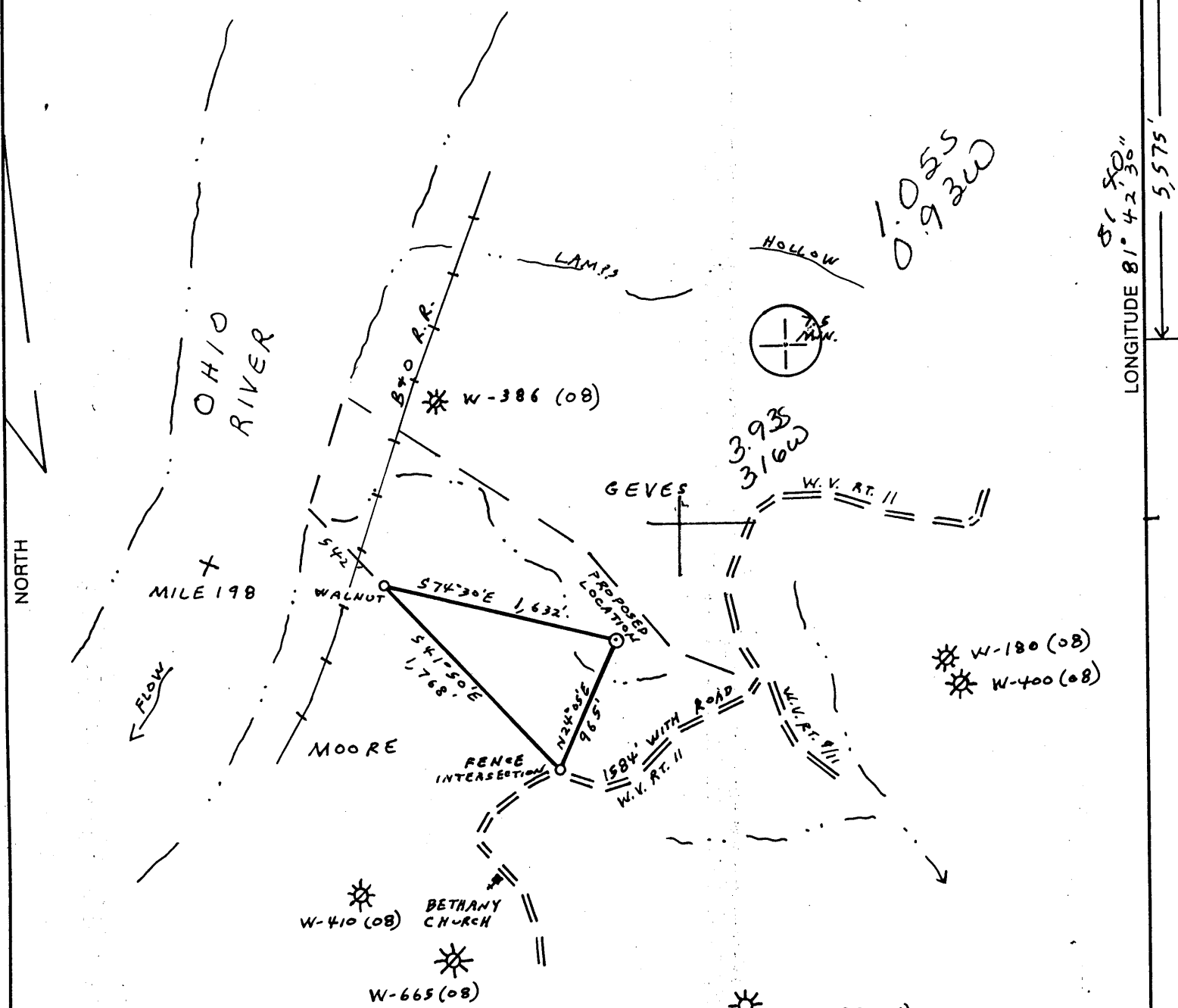
FORM IV-5 (6-78)  
 H.T. HALL

87B 10/14/86

← 4,950' 39 15 →  
 LATITUDE 39° 12' 30"

NORTH

LONGITUDE 81° 42' 30"  
 5,575'



REFERENCE POINTS:  
 N 2° 14' W 178' TO 10" POPLAR  
 S 80° 34' E 150' TO 16" C. OAK

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

N18E6

FILE NO. 8-42  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1,000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION  
ELEV. = 819 1700' S.W. OF LOCATION

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.  
 (SIGNED) Vincent W. Wood  
 R.P.E. \_\_\_\_\_ L.L.S. 664

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**



DATE NOVEMBER 20, 19 85  
 OPERATOR'S WELL NO. KEM 662  
 API WELL NO. 47-107-1406

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 709 WATERSHED OHIO RIVER  
 DISTRICT HARRIS 2 COUNTY WOOD  
 QUADRANGLE LUBECK 449 009 NW1  
 SURFACE OWNER VICTOR M. AND SHARON L. DAVIS ACREAGE 74  
 OIL & GAS ROYALTY OWNER VICTOR M. & SHARON L. DAVIS LEASE ACREAGE 74  
 LEASE NO. 87-08-3650  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

COUNTY NAME  
 PERMIT

OCT 27 1985

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION DEVONIAN HURON SHALE ESTIMATED DEPTH 1960'  
 WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT R. A. PRYCE  
 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164 ADDRESS P.O. BOX 8, RAVENSWOOD, W.V. 26164

FORM IV-6 (8-78)  
 H.T. HALL

7/85



1) Date: October 2, 1986  
 2) Operator's Well No. KEM #662  
 3) API Well No. 47 -107-1406  
 State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

**RECEIVED**  
 OCT 10 1986

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

**APPLICATION FOR A WELL WORK PERMIT**

DIVISION OF OIL & GAS

- 4) WELL TYPE: DEPARTMENT OF ENERGY  /   
 B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow  /)
- 5) LOCATION: Elevation: 709' Watershed: Ohio River  
 District: Harris County: Wood Quadrangle: Lubeck 449
- 6) WELL OPERATOR: Kaiser Exploration and Mining Company CODE: 25330 7) DESIGNATED AGENT: R. A. Pryce  
 Address: P. O. Box 8 Address: Same  
Ravenswood, WV 26164
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Glen Robinson 9) DRILLING CONTRACTOR: Name Unknown  
 Address: Rt. 1, Mt. Pleasant Estates Address: \_\_\_\_\_  
Mineral Wells, WV 26150
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Berea Sandstone  
 12) Estimated depth of completed well, 1960' feet  
 13) Approximate trata depths: Fresh, 2480 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_ / No  /
- 15) CASING AND TUBING PROGRAM Permit #'s 180 & 385

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	7"			X		<u>280' 510'</u>	<u>280' 510'</u>	Cement to surface		<u>Per Rule 15.05</u>
Coal										
Intermediate										
Production	4 1/2"			X		1960'	1960'	175 sks 50/50 cement mix		<u>as required by rule 15.01</u>
Tubing										
Link										
									Perforations:	
									Top	Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-107-1406 Date October 20 19 86

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires October 20, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>ASB</u>	Plat: <input checked="" type="checkbox"/>	Casing: <u>AS</u>	Fee: <u>969780</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

**RECEIVED**  
JAN 16 1987

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

NONE  
Coal Operator or Owner

---

Address

---

NONE  
Coal Operator or Owner

---

Address

---

Victor Davis  
Lease or Property Owner

---

4215 Powell St., Parkersburg, WV  
Address

NONE  
Name of Well Operator

---

Complete Address

---

January 8 19 87  
WELL AND LOCATION

---

Harris District

---

Wood County

---

WELL NO. KEM #662 (47-107-1406)

---

Victor Davis Farm

STATE INSPECTOR SUPERVISING PLUGGING Glen Robinson

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Jackson

ss:

John V. McCallister and Walter L. Morgan  
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Kaiser Exploration and Mining Company, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 14th day of November, 19 86, and that the well was plugged and filled in the following manner:

Sand or Zone Record	Filling Material	Plugs Used	Casing	
			CSG PULLED	CSG LEFT IN
Formation		Size & Kind		
Berea Sandstone	Class A Cement 1920 - 1820	18 sks	7"	
	6% Gel 1820 - 1575		0	252'
Salt Sands	Class A Cement 1575 - 1275	54 sks		
	6% Gel 1275 - 300			
Surface	Class A Cement 300 - 0	58 sks		
Coal Seams				
(Name)		Description of Monument		
(Name)		5 1/2" casing with aluminum tag cemented in top.		
(Name)				
(Name)				

and that the work of plugging and filling said well was completed on the 14th day of January, 19 87.

And further deponents saith not.

Walter L. Morgan  
Denese Carney  
Notary Public

Sworn to and subscribed before me this 14th day of January, 19 87.

My commission expires:

August 30, 1993

Permit No. 107-1406-P