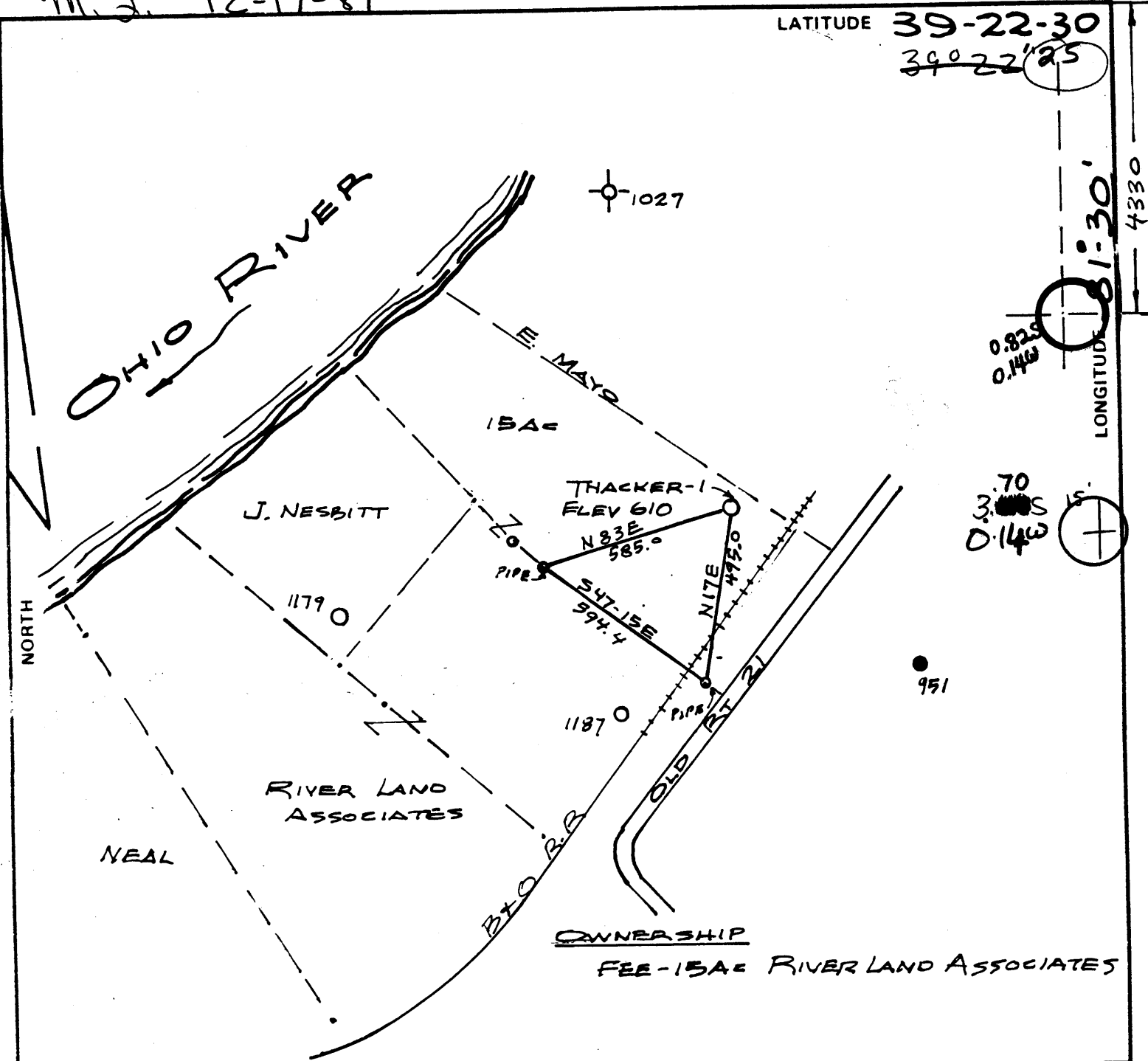


M. J. 12-17-81

740

LATITUDE 39-22-30  
39-22-25

LONGITUDE 81-30'  
4330



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 IN 200  
 PROVEN SOURCE OF ELEVATION BM 613 BESIDE B. B. TRACT

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) Harrell B. Bruce  
 R.P.E. \_\_\_\_\_ L.L.S. 667

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6  
 (8 78)



DATE DEC 12, 1981  
 OPERATOR'S WELL NO. THACKER-1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1192  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_\_\_ WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW \_\_\_\_\_  
 LOCATION: ELEVATION 610 WATER SHED OHIO RIVER  
 DISTRICT WILLIAMS COUNTY WOOD  
 QUADRANGLE PARKERSBURG 7 1/2 415' EC  
 SURFACE OWNER RIVER LAND ASSOCIATES ACREAGE 15  
 OIL & GAS ROYALTY OWNER SAME LEASE ACREAGE 15  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 4000 6-0 Booz (70)  
 WELL OPERATOR ENERGEX CITY GAS DESIGNATED AGENT WALTER ALLEN  
 ADDRESS P.O. Box 5306 ADDRESS P.O. Box 5306



DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

18 SHOTS

2228'-2238' 10 SHOTS  
2238'-2246' 8 SHOTS

Gordon

Hydraulically fractured with 25,000 lbs. of 20/40 sand.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			0	250	
Shale			250	272	
Sand			272	284	
Shale			284	308	
Sand			308	318	
Shale			318	322	
Sand			322	344	
Shale			344	386	
Sand			386	434	
Shale			434	610	
Sand			610	644	
Shale			644	654	
Sand			654	670	
Shale			670	744	
Sand			744	834	
Shale			834	846	
Sand			846	904	
Shale			904	908	
Sand			908	930	
Shale			930	968	
Sand			968	990	
Shale			990	1028	
Sand			1028	1056	
Shale			1056	1072	
Sand			1072	1112	
Shale			1112	1134	
Sand			1134	1144	
Shale			1144	1200	
Sand			1200	1206	
Shale			1206	1226	
Sand			1226	1240	
Shale			1240	1246	
Sand			1246	1270	
Shale			1270	1288	
Sand			1288	1320	
Shale			1320	1376	
Big Injun			1376	1502	
Gray Shale			1502	1864	
Coffee Shale			1864	1896	

(Attach separate sheets as necessary)

- Berea
- Devonian Shale

1896 1902  
1902 3343

Gas

TD in upper Huron

Energex Oil and Gas Corp.

Well Operator

By: Robert E. Kiebride President

Date: May 21, 1984

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

(Obverse)

(Revised 3-81)



API 747 - 107 - 1192  
Date December 1, 1981

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Gas X /

(If "Gas", Production X / Underground storage \_\_\_ / Deep \_\_\_ / Shallow X /

LOCATION: Elevation: 610 Watershed: Ohio River  
District: Williams County: Wood Quadrangle: Parkersburg

WELL OPERATOR Energex Oil & Corp.  
Address P.O. Box 5306  
Vienna, WV 26105

DESIGNATED AGENT Walter H. Allen  
Address P.O. Box 5306  
Vienna, WV 26105

OIL AND GAS ROYALTY OWNER River Land Associates  
Address P.O. Box 5306  
Vienna, WV 26105  
Acreage 15

COAL OPERATOR N/A  
Address \_\_\_\_\_

SURFACE OWNER River Land Associates  
Address P.O. Box 5306  
Vienna, WV 26105  
Acreage 15

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME N/A  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
NAME N/A  
Address \_\_\_\_\_

NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME N/A  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:

NAME Deo Mace  
Address Route 1 Box 65  
Sandridge, WV  
Telephone 304-665-8693

**RECEIVED**

DEC 15 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_ / lease X / other contract \_\_\_ / dated 11/20, 1981, to the undersigned well operator from \_\_\_\_\_

(If said deed, lease, or other contract has been recorded:)

Recorded on December 8, 1981, in the office of the Clerk of County Commission of

Wood County, West Virginia, in 764 Book at page 681. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate X /  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

BLANKET BOND

ENERGEX OIL AND GAS CORPORATION  
Well Operator

By: Danell R. Boice

Its: AGENT

