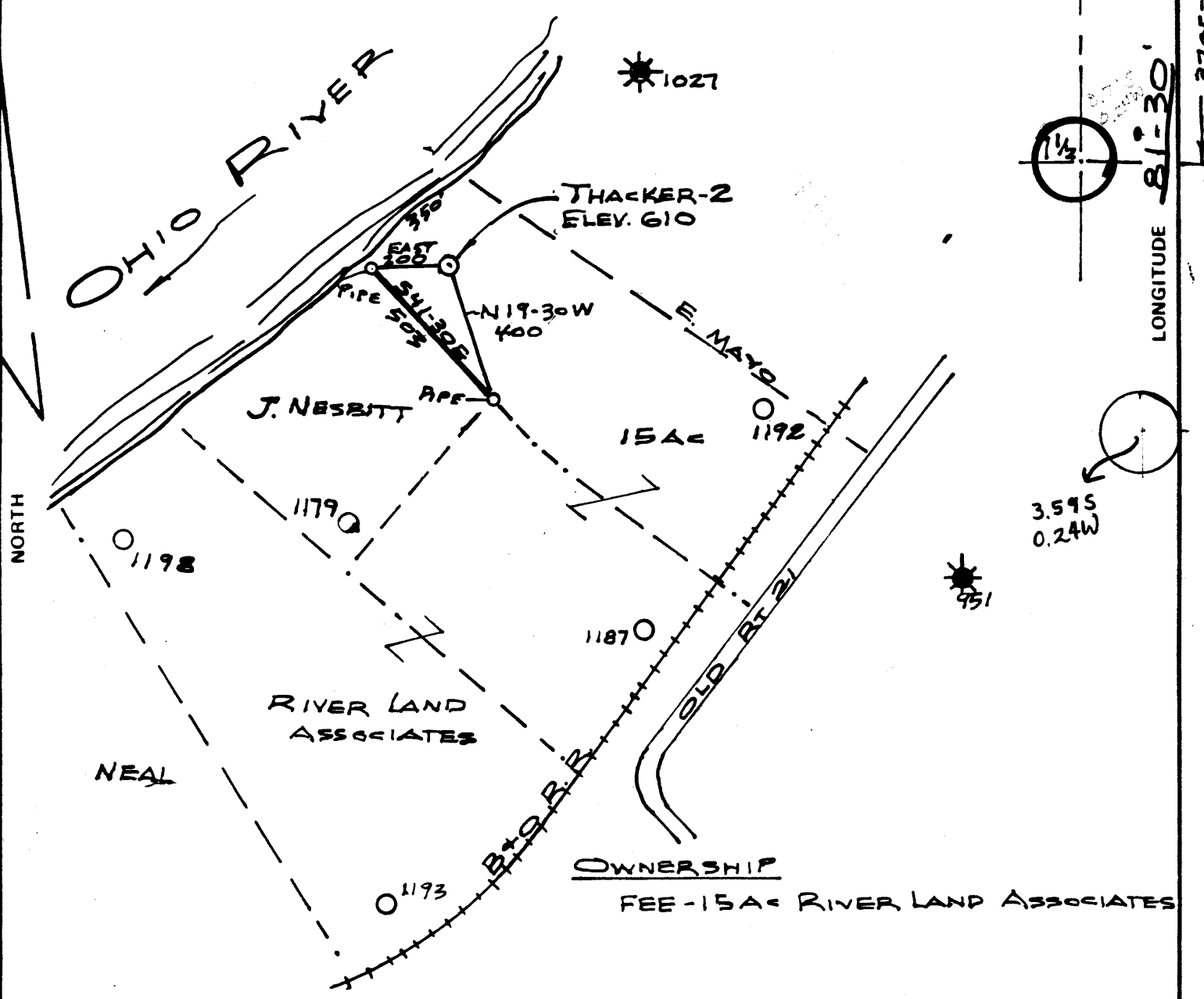


LATITUDE 39-22-30

39°25'15"

LONGITUDE 81°30' 3705



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 613 NEAR R.R.

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) Darrell R. Boice
 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 JAN 10, 19 82
 OPERATOR'S WELL NO. 7
 API WELL NO. 47-107-1203
 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 & 151 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
 WELL OPERATOR ENERGEX OIL & GAS DESIGNATED AGENT WALTER ALLEN
 ADDRESS P.O. Box 5306 VIENNA, W. VA 26105 ADDRESS P.O. Box 5306 VIENNA, W. VA 26105

JAN 27 1982

IV-35
(Rev 8-81)

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1984



State of West Virginia

Department of Mines
Oil and Gas Division

Date May 21, 1984
Operator's Well No. 2
Farm Thacker
API No. 47 - 107 - 1203

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 610' Watershed Ohio River
District: Williams County Wood Quadrangle Valley Mills

COMPANY Energex Oil and Gas Corp.
ADDRESS Box 905 Marietta, OH 45750
DESIGNATED AGENT Sherry Barker
ADDRESS Box 905 Marietta, OH 45750
SURFACE OWNER River Land Associates
ADDRESS Box 5306 Vienna, WV 26105
MINERAL RIGHTS OWNER River Land Associates
ADDRESS Box 5306 Vienna, WV 26105
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace
Mace ADDRESS Rt. #1, Box 65 Sand Ridge WV
PERMIT ISSUED January 22, 1982
DRILLING COMMENCED January 27, 1982
DRILLING COMPLETED February 1, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	250'	250'	To Surface
7			
5 1/2			
4 1/2		3514'	125 SKS.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4000 feet
Depth of completed well 3514 feet Rotary X / Cable Tools
Water strata depth: Fresh 18 feet; Salt 345 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Pay zone depth 1868 - 1874 feet
Gas: Initial open flow 24 Mcf/d Oil: Initial open flow 5 Bbl/d
Final open flow 12 Mcf/d Final open flow 3 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 360 psig (surface measurement) after 63 hours shut in
(If applicable due to multiple completion--)
Second producing formation Gordon Pay zone depth 2174 - 2186 feet
Gas: Initial open flow 12 Mcf/d Oil: Initial open flow None Bbl/d
Final open flow 3 Mcf/d Oil: Final open flow None Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 360 psig (surface measurement) after 63 hours shut in

POF
15 MCF (show)
+ 3 @

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

6 SHOTS

2174' - 2176' 2 SHOTS
2182' - 2186' 4 SHOTS

Hydraulically fractured with 45,000 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	274	
Sand			274	288	
Shale			288	318	
Sand			318	352	
Shale			352	392	
Sand			392	404	
Shale			404	566	
Sand			566	594	
Shale			594	620	
Sand			620	652	
Shale			652	664	
Sand			664	674	
Shale			674	692	
Sand			692	700	
Shale			700	740	
Sand			740	800	
Shale			800	806	
Sand			806	834	
Shale			834	860	
Sand			860	924	
Shale			924	928	
Sand			928	938	
Shale			938	946	
Sand			946	954	
Shale			954	964	
Sand			964	994	
Shale			994	1010	
Sand			1010	1014	
Shale			1014	1026	
Sand			1026	1056	
Shale			1056	1062	
Sand			1062	1100	
Shale			1100	1130	
Sand			1130	1148	
Shale			1148	1200	
Sand			1200	1260	
Shale			1260	1270	
Sand			1270	1310	
Shale			1310	1324	
Sand			1324	1336	
Shale			1336	1360	

(Attach separate sheets as necessary)

Big Injun 1360 1490
Gray Shale 1490 1820
Coffee Shale 1820 1868
Berea 1868 1874
Gas and Oil
Devonian Shale 1874

3514

Energex Oil and Gas Corp.
Well Operator
By: Robert E. Kirkbride, President

Date: May 21, 1984

Huron O & D

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."



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

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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

ENERGEX OIL AND GAS CORPORATION
Well Operator

BLANKET BOND

By: Danell R. Boice
Its: AGENT

(Revised 3-81)

PROPOSED WORK ORDER

**THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION**

DRILLING CONTRACTOR (IF KNOWN) Paul Drilling Corporation

Address P. O. Box 1365

Parkersburg, WV 26105

GEOLOGICAL TARGET FORMATION Marcellus Shale

Estimated depth of completed well 4000 feet. Rotary X / Cable tools /

Approximate water strata depths: Fresh, 200 feet; salt, 600 feet.

Approximate coal seam depths: None

Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

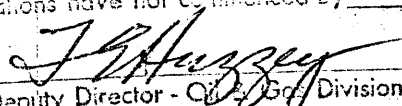
CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling	Left in Well		
Conductor									Kinds
Fresh water	8-5/8	ST&C	24	X		650	650	To Surface	
Coal									Sizes
Intermed.								400	
Production Tubing	4-1/2	ST&C	9-1/2	X			4000	125 SKS into 857R	Depths set
Liners									Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling . This permit shall expire if operations have not commenced by 9-14-82.


Deputy Director - Coal Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: , 19 .

By:

Its: