

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION BM 603
 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) Daniel 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)



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE JAN 25 19 82
 OPERATOR'S WELL NO. NEALE-1
 API WELL NO. _____
47 - 107 - 1205
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 617 WATER SHED OHIO RIVER
 DISTRICT WILLIAMS COUNTY WOOD
 QUADRANGLE PARKERSBURG 7 1/2 4151 EC

SURFACE OWNER C.R. NEALE ET AL ACREAGE 52
 OIL & GAS ROYALTY OWNER C.R. NEALE ET AL LEASE ACREAGE 52
 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 DESIGNATED AGENT WALTER ALLEN
 ADDRESS P.O. BOX 5306 ADDRESS P.O. BOX 5306
VIENNA, W VA 26105 VIENNA, W. VA. 26105

FEB 22 1982



IV-35
(Rev 8-81)

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1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date May 21, 1984
Operator's
Well No. 1
Farm Neale
API No. 47 - 107 - 1205

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: 617' Watershed Ohio River
District: Williams County Wood Quadrangle Parkersburg

COMPANY Energex Oil and Gas Corp.
ADDRESS Box 905 Marietta, OH 45750
DESIGNATED AGENT Sherry Barker
ADDRESS Box 905 Marietta, Oh 45750
SURFACE OWNER C. R. Neale, etal
ADDRESS Rt. #1, Box 8 Parkersburg, WV 26101
MINERAL RIGHTS OWNER C. R. Neale, etal
ADDRESS Rt. #1, Box 8 Parkersburg, WV 26101
OIL AND GAS INSPECTOR FOR THIS WORK Deo
Mace ADDRESS Rt. #1, Box 65 Sand Ridge
PERMIT ISSUED January 26, 1982 WV
DRILLING COMMENCED February 3, 1982
DRILLING COMPLETED February 8, 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	260'	260'	To Surface
7			
5 1/2			
4 1/2		2235'	125 SKS.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4000 feet
Depth of completed well 2219 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 25 feet; Salt 352 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Pay zone depth 1869 - 1873 feet
Gas: Initial open flow 12 Mcf/d Oil: Initial open flow 3 1/2 Bbl/d
Final open flow 12 Mcf/d Final open flow 3 1/2 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 375 psig (surface measurement) after 48 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

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

10 SHOTS

1869'-1873' 10 SHOTS

21,500

Hydraulically Fractured with 2000 lbs., 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	296	
Sand			296	322	
Shale			322	340	
Sand			340	352	
Shale			352	356	
Sand			356	366	
Shale			366	406	
Sand			406	450	
Shale			450	620	
Sand			620	634	
Shale			634	706	
Sand			706	714	
Shale			714	760	
Sand			760	862	
Shale			862	884	
Sand			884	954	
Shale			954	962	
Sand			962	976	
Shale			976	988	
Sand			988	1014	
Shale			1014	1050	
Sand			1050	1060	
Shale			1060	1076	
Sand			1076	1118	
Shale			1118	1124	
Sand			1124	1128	
Shale			1128	1150	
Sand			1150	1156	
Shale			1156	1190	
Sand			1190	1200	
Shale			1200	1210	
Sand			1210	1258	
Shale			1258	1286	
Sand			1286	1340	
Shale			1340	1358	
Big Injun			1358	1500	
Gray Shale			1500	1830	
Coffee Shale			1830	1874	
Berea			1874	1880	
Devonian Shale			1880	2219	

(Attach separate sheets as necessary) Gas and Oil

Up. Dev. undiff.

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."



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 ___ /

LOCATION: Elevation: 617 Watershed: Ohio River
District: Williams County: Wood Quadrangle: Parkersburg

WELL OPERATOR Energex Oil & Gas 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 C. R. Neale
Address Rt. #10, Box 8
Parkersburg, WV. 26101
Acreage 52

COAL OPERATOR N/A
Address N/A

SURFACE OWNER C. R. Neale
Address Rt. #10, Box 8
Parkersburg, WV 26101
Acreage 52

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

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

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

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Deo Mace
Address Rt. #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 11/10, 1981, to the undersigned well operator from _____.

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

Recorded on December 1, 1981, in the office of the Clerk of County Commission of Wood County, West Virginia, in 764 Book at page 540. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ / 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 & Gas Corporation
Well Operator
By: Samuel R. Boice
Its: AGENT

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

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For Drill-ling, Left in Well), CEMENT FILL (UP OR SACKS, Cubic ft.), PACKERS (Kinds, Sizes, Depths set, 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 822-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code 822-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-8a 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 9-28-82.

J. Muzzey
Deputy Director - Oil & Gas 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 822-4-20, 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: _____