



IV-35 (Rev 3-52)

State of Mest Birginia

Bepartment of Mines Gil und Gas Aivision

Date_	May	21 . 1	984
Operat	or's		984
Well N	₩	A-2	
Farm	Mayo	·	
			- 1027

(Continue on reverse side)

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

WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Waste Di nd Storage	sposal/ / Deep/ Sha	llow/)
LOCATION: Elevation: 612' Watershed_	Ohio River		
District: Williams County Woo			Mills
COMPANY Energex Corporation			
ADDRESS Box 905 Marietta, OH 45750	Casing Use	d in Left	Cement fill up
DESIGNATED AGENT Sherry Barker	Tubing Dri	lling in Well	
ADDRESS Box 905 Marietta, OH 45750	Size		
SURFACE OWNER Eugene Mayo	20-16 Cond.		
ADDRESS Rt. #1, Williamstown, WV 26187	13-10"		
MINERAL RIGHTS OWNER Eugene Mayo	9 5/8		
ADDRESS Rt. #1, Williamstown, WV 26187		257'	Surface
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7		
Mace ADDRESSRt.#1,Box 65,Sand Ridg			
PERMIT ISSUED May 14, 1980 WV	4 1/2	3300'	100 SKS.
DRILLING COMMENCED November 1, 1981	3		
DRILLING COMPLETED November 6, 1981	2		
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used		
GEOLOGICAL TARGET FORMATION Gordon		Depth 2700	feet
Depth of completed well 3300 feet	Rotary X /	Cable Tools_	
Water strata depth: Fresh 20 feet;			•
Coal seam depths: None		ng mined in the	area? No
OPEN FLOW DATA			
Producing formation Berea	Pav zo	ne depth 1869	' feet
Gas: Initial open flow 35 Mcf/d		<u> </u>	
		open flow 13	
Time of open flow between init			
Static rock pressure 680 psig(surface			
(If applicable due to multiple completion			
Second producing formation		ne depth	feet
Gas: Initial open flow Mcf/d			 Bbl/d
Final open flow Mcf/d			Bbl/d
Time of open flow between init			
Static rock pressurepsig(surface			

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

22 SHOTS

1869'-1871'	4	SHOTS
1879'-1881'	4	SHOTS
2052'-2054'	2	SHOTS
2059'-2061'	2	SHOTS
2079'-2081'	2	SHOTS
2190'-2194'	4	SHOTS
2196'-2200'	4	SHOTS
	1879'-1881' 2052'-2054' 2059'-2061' 2079'-2081' 2190'-2194'	1879'-1881' 4 2052'-2054' 2 2059'-2061' 2 2079'-2081' 2 2190'-2194' 4

Hydraulically Fractured with 30,000 lbs. of $20/40 \, \text{sand}$.

WELL LOG

	• • • • • • • • • • • • • • • • • • • •			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of and salt water, coal, or	f all fresh
Sand and Shale Sand Shale	0 800 812 822 830 850 936 968 988 1022 1090 1130 1138 1196 1256 1270 1338 1368 1488 1488	800 812 822 830 850 936 968 988 1022 1090 1130 1138 1196 1256 1270 1338 1368 1488 1816 1864	and salt water, coal, o	oil and gas
Coffee Shale <u>Berea</u> Upper Devonian Shale + Huran @70	1864 1870	1870 3300	Gas	
			,	
				•

(Attach separate sheets as necessary)

nergex Corporation May 21 1984 Date:

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."



DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE	Jan 21,	1981	
Surface Owner EUGENE MAYO	Company_	ENERGEX	CORPORA	ATION
Address Rt. #1, Williamstown, WV 26187				rkersburg,W
Mineral Owner Same		A OYA		Acres 10
Address		waters) Oh:	o Rive	
Coal Owner Same	Well No	0		Elevation 612
Address		Williams		
Coal Operator None		Valley	Mills	County Wood
Address				1-00000000
PERMIT MUST BE POSTED AT THE WELL SITE				
drilling This possible to	INSPECTOR TO BE NOTIF	IED Paul	Goodni	ight
not commenced by 9-22-81	ADDRESS Sm	ithville	, WV	
outy Director - Oil & Gas Division GENTLEMEN:	PHONE <u>477-</u>	3660		
The undersigned well operator is entitled to drill upon the	e above named	farm or tract	of land for o	oil and gas, having
title thereto, (or as the case may be) under grant or lease Etux	dated API	11 20	19 <u>/6</u> _ t	y <u>Eugene M</u>
Etuxmade toAssociated Mineral 19_76inWoodCounty, Book667	S, Illand re	corded on the	22nd	_ day of Apr
	- (0	^		-
1737	_			
XX NEW WELLDRILL DEEPER	REDR	ILL	_FRACTUR	
1737	REDR	ILL	_FRACTUR	
XX NEW WELLDRILL DEEPER	REDR	ILL NE 5, 1969.		E OR STIMULAT
XX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLE The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or feeling the section of the code, must be received by the cod	REDR D BEFORE JU or licensed land notified that ar iled with the D	ILL	all coal own ey wish to r fines within	E OR STIMULATION ners and/or operation nake, or are requiten (10) days. *
	REDR D BEFORE JU or licensed land notified that ar iled with the D registered mail	ILL	all coal own ey wish to r fines within o the above	ners and/or operationake, or are required to (10) days. *
AX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLE The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or for Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the De	REDR D BEFORE JU or licensed land notified that ar iled with the D registered mail	ILL	all coal own ey wish to r fines within the above r on, West Vir	ners and/or operate nake, or are requiren (10) days. *
AX NEW WELL DRILL DEEPER OIL AND GAS WELL ORIGINALLY DRILLE The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or for Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address.	REDR D BEFORE JU or licensed land notified that ar iled with the D registered mail	Surveyor and by objection the epartment of May mes at Charlestors, ENER	all coal own ey wish to r fines within the above r on, West Vir	ners and/or operations, or are required ten (10) days. * named coal operations of the operations of the operations.
AX NEW WELL	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min	Surveyor and by objection the epartment of May mes at Charlestors, ENER	all coal own ey wish to r fines within the above r on, West Vir	ners and/or operatemake, or are requiten (10) days. * named coal operate before, or on toginia.
OIL AND GAS WELL ORIGINALLY DRILLES The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or for Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the De PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	Surveyor and by objection the epartment of May mes at Charlestors, ENER Well 225 Four	ey wish to radines within the above on, West Viron, GEX COR	make, or are required to the control of the control
OIL AND GAS WELL ORIGINALLY DRILLES The enclosed plat was prepared by a registered engineer of have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or for Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address—same day with the mailing or delivery of this copy to the De PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	Surveyor and by objection the epartment of May mes at Charlestors, ENER Well 225 Four	all coal own ey wish to r fines within the above r on, West Vir	make, or are required to the control of the control
AX NEW WELL	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	surveyor and y objection the epartment of May ness at Charlestors, ENER Well 225 Four St PARKERSB	ey wish to radines within the above on, West Virgon, GEX COR	make, or are required to (10) days. * named coal operate before, or on to ginia. *
AX NEW WELL	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	surveyor and y objection the epartment of Management of M	ey wish to radines within the above on, West Virgoperator the Street URG	make, or are required to (10) days. * named coal operate before, or on to ginia. *
AX NEW WELL	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	surveyor and by objection the epartment of May ness at Charlestors, 225 Four St PARKERSB City or W. VA.	ey wish to refines within the above on, West Virgoperator th Street URG Town 26101	make, or are required to (10) days. * named coal operate before, or on to ginia. *
AX NEW WELL	REDR D BEFORE JUI or licensed land notified that ar iled with the D registered mail partment of Min Very truly you (Sign Name)	surveyor and y objection the epartment of Management of M	ey wish to refines within the above on, West Virgoperator th Street URG Town 26101	ners and/or operationake, or are requiten (10) days. * named coal operational or on tegrina. * PORATION

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _

47-107-1027-REN.

PERMIT NUMBER

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER T	O XX DRILL	DEEPEN F	RACTURE-STIMULATE
DRILLING CONTRACTOR. (1	•	RESPONSIBLE AGENT:	
NAME PAUL DRILLING	G CORPORATION		nomas
ADDRESS 225 Fourth		ADDRESS 225 4th	St., Parkersburg, W
TELEPHONE 424-7300		TELEPHONE 422-5	5418
ESTIMATED DEPTH OF COMI PROPOSED GEOLOGICAL FOR	PLETED WELL: 2500'	ROTARY XX	CABLE TOOLS
	GAS CO	MR XX STORACE	DISPOSAL
THE OF WELL. (ML			OOD OTHER
TENTATIVE-CASING PROGRA		WAIER FLO	OTHER
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFE UP OR SACKS - CUBIC ET.
20 - 16			
	250'	0.501	Circ. To Surf
7			
	THE STREET COME SHALL AND ADMINISTRATION OF THE PROPERTY OF TH		
		2500'	100 Sks.
3			Pert. Top
Liners			Perf. Bottom Perf. Top
			Perf. Bottom
IS COAL BEING MINED IN THE TO DRILL: SUBMIT FIVE (5) COPIES	None HE AREA? NO S OF OG - 1, \$100.00 PERMIT	BY WHOM?	
OF PLAT.		·	
TO DRILL DEEPER OR REDRI	LL:		
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMIT	OF OG - 1, SHOWING ORIGIN TO 1929, A PERMANENT COF PED.	AL PERMIT NUMBER AN PY OF THE PLAT AND T	D PERFORMANCE BOND. OF HE ORIGINAL WELL RECORT
TO FRACTURE - STIMULATE:			
OIL AND/OR GAS WELL (ORIGINALLY DRILLED BEFORE	E JUNE 5, 1929, FIVE (5) C	COPIES OG - 1, PERFORMANCE
OIL AND/OR GAS WELL O	T AND ORIGINAL WELL RECO DRIGINALLY DRILLED ON AND	O/OR AFTER JUNE 5, 1929	9, FIVE COPIES OG - 1, SHOW
ING ORIGINAL PERMIT N	UMBER, AND PERFORMANCE B	OND.	
Required forms must be file four (24) hours in advance.	ed within ninety (90) days of col	mpletion for bond release.	Inspector to be notified twenty
		mind of state 142 of the continues	name i in aldo di ili ancestra namen. A
		-	
The follows; waiver must	be completed by the coal opera	tor if the permit is to be is	ssued within two days of receip
	ent fored and place on our mine map		
We in	Coal Company ha		
·	complied with all rules and regula		
		Fo	r Coal Company

Official Fitle





DEPARTMENT OF MINES

Oil and Gas Division OIL & GAS DIVISION DEPT. OF MINES OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE May 14, 1980
Surface Owner EUGENE MAYO	Company ENERGEX CORPORATION
Address Rt. #1, Williamstown, WV 26187	
Mineral Owner Same	
Address	
Coal Owner Same	2
Address	T7: 1 1 :
Coal Operator None	A COUNTY MOOT
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	
· ima perim sidil expile il	SPECTOR
operations have not commenced by 1-22-81	BE NOTIFIED Paul Goodnight
	DRESS Smithville, WV
Deputy Director - Oil & Gas Division	ONE 477-3660
GENTLEMEN;	
The undersigned well operator is entitled to drill upon the	shove named form on track of land for the
197, Un WOOD County, Book 00 /	In and recorded on the 22nd day of April Page 620
OIL AND GAS WELL ORIGINALLY DRILLED	REDRILL FRACTURE OR STIMULATE BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	tified that any objection they wish to make, or are required d with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed by re- or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Depart	egistered mail, or delivered to the above named coal operators
PLEASE SUBMIT COPIES OF ALL	ery truly yours, ENERGEX CORPORATION ign Name) Well Operator
WEST VIRGINIA GEOLOGICAL AND	225 Fourth Street '
ECONOMIC SURVEY Address	Street
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well Operat	
AC-304 - 292-6331	City or Town
	W. VA. 26101
	State

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _

47-107-1027

PERMIT NUM

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	DRILL	DEEPEN	DA (VOLUDE) CONTACTAL A MO	
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGENT: NAME B. H. Thomas ADDRESS 225 4th St., Parkersburg, W		
NAME PAUL DRILLING				
ADDRESS 225 Fourth S	t.,Parkersburg,WV			
TELEPHONE <u>424-7300</u>			418	
ESTIMATED DEPTH OF COMPI			CABLE TOOLS	
PROPOSED GEOLOGICAL FOR		ROTART	CABLE TOOLS	
TYPE OF WELL: OIL_		MP XX COOR LOR		
•	RECICEN	G WATER FLO	ODOTHER	
TENTATIVE CASING PROGRAM	1 :			
CASING AND TUBING SIZE	USED FOR	LEFT IN	CEMENT FILL UP	
20 16	DRILLING	WELL	OR SACKS - CUBIC 1-T.	
13 - 10				
9 - 5/8				
8 - 5/8	250'	250'	Oi m- C	
7		230	Circ. To Surf	
3 1/2				
4 ½		2500'	100 Sks.	
3			Perf. Top	
2 Liners			Perf. Bottom	
			Perf. Top	
			Perf. Bottom	
TO DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED TO FRACTURE STIMULATE: OIL AND/OR GAS WELL OR	OF OG - 1, \$100.00 PERMIT L: OF OG - 1, SHOWING ORIGINA O 1929, A PERMANENT COP O. IGINALLY DRILLED BEFORE	FEE, PERFORMANCE BOY AL PERMIT NUMBER AND Y OF THE PLAT AND TH	ND AND PERMANENT COPY PERFORMANCE BOND. ON IE ORIGINAL WELL RECORD	
OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	AND ORIGINAL WELL RECOR IGINALLY DRILLED ON AND, IBER, AND PERFORMANCE BO within ninety (90) days of com	OR AFTER JUNE 5, 1929, OND.	FIVE COPIES OG - 1, SHOW-	
	completed by the coal operate			
WAIVER: I the undersigned, Agent this lease have examined	and place on our mine maps	this proposed well location		
providing operator has con Code.	Coal Company have	no objections to said well ons in Articles 4, 5, and 7, (being drilled at this location, Chapter 22 of the West Virginia	
		For (Coal Company	
		<u> </u>	fficial Title	
		O.		