



IV-35 (Rev 8-81)

State of Mest Nirginia

Bepartment of Mines Gil und Gas Bivision

Date_	May	21.	1984	
Opera	tor's			
Well	No.	1		
Farm	Thac	cker		
_			07 -	1192

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 610' Watershed_	Ohio Ri	ver	*	,
District: Williams County Wo	ood .	Quadrangle	Parker	sburg
District: Williams County We	<u> </u>	_2		
CCMPANY Energex Oil and Gas Corp.		_		
ADDRESS Box 905 Marietta, OH 45750	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Sherry Barker	Tubing	Drilling	in Well	
ADDRESS Box 905 Marietta, OH 45750	Size			
SURFACE OWNER River Land Associates	20-16			
ADDRESS Box 5306 Vienna, WV 26105	Cond. 13-10"			
MINERAL RIGHTS OWNER River Land Associates	9 5/8			
ADDRESS Box 5306 Vienna, WV 26105	8 5/8	258'	258'	Surface
OTT AND CAS INSPECTIOR FOR THIS WORK Deo		230	230	34224
Mace ADDRESS Rt.#1, Box 65 Sand Ri	dge,/			
PERMIT ISSUED November 16, 1981			3337'	200 SKS
DRILLING COMMENCED December 29, 1981	4 1/2		3337	200 010
DRILLING COMPLETED January 3, 1982	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON VERBAL PERHISSION OBTAINED	useu			
GEOLOGICAL TARGET FORMATION Devonian Shall	le	Dep	th 400	0 feet
Depth of completed well 3343 feet				
Water strata depth: Fresh 18 feet;				
Coal seam depths: None				e area? No
Coar Seam deputs.		,		
OPEN FLOW DATA	_	-	221)
Producing formation Gordon				28 feet
Gas: Initial open flow 17 Mcf/d				
Final open flow 6 Mcf/d				
Time of open flow between in:	itial and :	final tests	3 24 h	ours
Static rock pressure 620 psig(surfa		ement) afte	er /2 ho	urs snut 1
(If applicable due to multiple completion	on)		. •	e
Second producing formation	P	ay zone dej	ocn_	iee
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	u itom	BDT/(
Final open flow Mcf/d				
Time of open flow between in				

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

18 SHOTS

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

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

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh
FORWATION WIDE THE CR BETT	10		and salt water, coal, oil and gas
Sand and Shale	0	250	
Shale	250	272	
	272	284	
Sand	284	308	
Shale	308	318	
Sand	318	322	
Shale	322	344	
Sand	344	386	
Shale	386	434	
Sand	434	610	
Shale	610	644	
Sand	644	654	
Shale	654	670	
Sand	670	744	
Shale		834	
Sand	744	846	
Shale	834 846	904	
Sand	904	908	
Shale	908	930	
Sand	930	968	Ì
Shale	968	990	
Sand		1028	
Shale	990	1056	
Sand	1028	1072	
Shale	1056	1112	
Sand	1072	1134	
Sh ale	1112	1144	
Sand	1144	1200	
Shale	1200	1206	
Sand		1226	
Shale	1206	1240	
Sand	1226	1246	•
Shale	1240 1246	1270	-
Sand		1288	
Shale	1270	1320	·
Sand	1288	1376	1
Shale	1320	1502	
Big Injun	1376	1864	•
Gray Shale	1502	1896	•
Coffee Shale	1864	1030	

Berea Devonian Shale (Attach separate sheets as necessary) $_{\tau}$ 1896 3343 1902 Gas

Energex Oil and Gas Corp. Well Operator

21, 1984 Date: May

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 earl, encountered in the drilling of a well."

(Obyerse)

(Revised 3-81)



WIM INGERES	
API $\frac{147 - 107 - 1192}{}$	
Date December 1, 198	1

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

OIL AND GAS WELL PERMIT APPLICATION

VII AND OND HELD	
VELL TYPE: 011 X / Gas X /	
(If "Gas", Production X / Und	derground storage / Deep / Shallow X /
LOCATION: Elevation: 610 Waters	hed: Ohio River
District: Williams County	: Wood Quadrangle: Parkersburg
- Oil & Corn	DESIGNATED AGENT Walter H. Allen
WELL OPERATOR Energex Oil & Corp. P.O. Box 5306	Address P.O. Box 5306
Address Vienna, WV 26105	Vienna, WV 26105
OIL AND GAS	
ROYALTY OWNER River Land Associates	COAL OPERATOR N/A Address
Address P.O. Box 5306	Address
Vienna, WV 26105	
Acreage 15	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER River Land Associates	NAMEN/A
Address P.O. Box 5306	Address
Vienna, WV 26105	NAME
Acreage 15	Address
TO MADE TO	Add Coo
FIELD SALE (IF MADE) TO: NAME N/A	TO SECURE OF BELLEVIEW
Allege	COAL LESSEE WITH DECLARATION ON RECORD:
Address	NAME N/A
TO DE NOTIFIED.	Address
OIL AND GAS INSPECTOR TO BE NOTIFIED:	RECEIVED
	Ma@aa 4 a2
NAME Deo Mace Address Route 1 Box 65	DEC 1 5 1981
Sandridge, WV	
Telephone 304-665-8693	OIL AND GAS DIVISION WYDEPARTMENT OF MINES
The undersigned well operator is entabove location under a deed/ lease to the undersigned well operator from (If said deed, lease, or other contract h	titled to operate for oil or gas purposes at the X / other contract / dated 11/20, 1981, has been recorded:)
Recorded on December 8, 19 81, in the	office of the Clerk of County Commission of
necoroca or	in 764 Book at page 681 . A permit is
Wood County, West Virginia,	In 704 BOOK BE Page 30
requested as follows: PROPOSED WORK: Drill X / Drill Deep	per / Redrill / Fracture or stimulate X
plus off old formation	n / Perforate new formation
Other physical change	In well (specify)
	the work order on the reverse side hereof. r(s), and coal lessee are hereby notified that and to make by Code \$22-4-3 must be filed with the
The above named coal operator, coal owner	red to make by Code \$22-4-3 must be filed with the days after receipt of this Application by the Der
objection they wish to make or are requi	to ment of this Application by the Dep
Department of Mines Within Illicent (1)	days after receipt of this appropriate have been been been been been been been be
mailed by registered mail or delivered by	by hand to the above named coal operator, coal own day of the mailing or delivery of this Application
(.) and analianceage on or neither the	
to the Department of Mines at Charleston	i, West Virginia.
PLEASE SUBMIT COPIES OF ALL	어머니는 그리는 사람들은 전에 다른 회장 이상 생태님, 그래 하는 사람들은 그 사람이 참 하는 생활이 없다.
GEOPHYSICAL LOGS DIRECTLY TO:	ENERGEX OIL AND GAS CORPORATION
61 6 31777	Well Operator
WEST VIRGINIA OIL AND GAS	BIND Danell R Borca
CONSERVATION COMMISSION	DI. WILL TO THE TOTAL TO THE TOTAL T
1613 WASHINGTON ST., E.	Its: AGENT
CHARLESTON, WV 25311 Telephone - 304/348-3092	
it repriore 7,047,740 July	마이트 마이트 전혀 되었다. 이 등을 하게 되었다. 그 그 그 사람들은 그 그 사람들은 그 그 그 사람들이 되었다. 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
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(Revised 3-81)

PROPOSED WORK ORDER

liners		ON	PON COMPLETI		STIMATE O ED ON FOR				IFORMAT I	TUAL IN	ACT
Parkersburg, WV 26105 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 1s coal being mined in this area: Yes / No x / CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR Weight For Dril- Left in up OR SACKS Weight Weight Weight Cubic ft. Conductor Size Grade per ft New Used ling Well Cubic ft. Conductor Fresh water 8-5/8 STSC 24 X 750 750 to Surface Sizes Intermed. Froduction 4-1/2 STSC 9-1/2 X 4000 +22 SKS Depths se Tooling Liners Production 4-1/2 STSC 9-1/2 X 4000 +22 SKS Depths se Tooling Liners Programment of Mines provides that the original and for copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form preacribed by Regulation 11, (ii) a bond in one of the forms preacr Regulation 12, or in Iteu thereof the other security allowed by Code 822-4-7 Form IV-9, "Reclumation Plan" applicable to the redumation required by Code 822-4-12h and Regulation 23, (iv) unless previously paid on the same well, required by Gode 822-4-12a, and (v) if applicable, the consent required by Code 822-4-2a from the owner of any water well or dwelling within 200 feet of the posed well. A separate Form IV-2 shall not be required for fracturing or stimulating where fracturing or stimulating is to be part of the work for which a permit scaught and is noted as such on the Form IV-2 filed in connection therewith. All produces bein in accricace with C11 22 of the W-0. Code, the Involument of the Weight Form IV-2 filed in connection therewith. The following waiver must be completed by the coal operator and by any coal for the strangent of the Weight Code 822-4-20, if the point of the Weight Co		•		ration	ing Corpo	Drill	Paul	NOWN)	R (IF·K	TRACTO	RILLING CON
ESCIONCICAL 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 1s coal being mined in this area: Yes / No x / CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR SPECIFICATIONS Weight Weight Weight Size Grade per ft New Used ling Well Cubic ft. Conductor Fresh water 8-5/8 ST&C 24 X 750 750 to Surface Coal intermed. Freduction 4-1/2 ST&C 9-1/2 X 4000 +25 SKS Depths se Tobling Liners NOTE: Regulation 7.02 of the Department of Nines provides that the original and for copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form preacribed by Regulation 11, (ii) a bond in one of the forms preacr Regulation 12, or in tieu thereof the other security allowed by Code 822-4-7. From UV-9, "Reclamation Plan" applicable to the redunation required by Code 822-4-21. Base of the command of the commer of any water well or dwelling within 200 feet of the posed well. A separate Form IV-2 shall not be required for fracturing or stimulating as where fracturing or stimulating is to be part of the work for which a permit sought and is noted as such or the Form IV-2 filed in connection therewith. The Following waiver must be completed by the coal operator and by any coal or coal lessee who has recorded a declaration under Code 822-4-20, if the point of the work for which a permit sought and is noted as such or the Form IV-2 filed in connection therewith. The following waiver must be completed by the coal operator and by any coal or coal lessee who has recorded a declaration under Code 822-4-20, if the point of the work for which a permit sought and is noted as such or the Form IV-2 filed in connection therewith. The following waiver must be completed by the coal operator and by any coal or coal lessee who has recorded a declaration under Code 822-4-20, if the point of the work for which a permit solution, the well location has be		•			365	.Box 1	P. 0	dress_	Ad		
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: Rode Is coal being mined in this area: Yes / No x / CASING AND TUBING PROGRAH CASING AND TUBING PROGRAH CASING AND TUBING PROGRAH CASING OR SPECIFICATIONS Weight For Drill-Left in UP OR SACKS TUBING TYPE Weight For Drill-Left in UP OR SACKS Conductor Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Conductor Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal metermed. Yell Cubic ft. Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 750 To Surface Fresh water 8-5/8 ST&C 9-1/2 X 4			and the second s	05	g, WV 261	ersbu	Park				
Approximate water strata depths: Fresh, 200 feet; salt, 600 feet. Approximate coal seam depths: None Approximate coal seam depths: None Approximate coal seam depths: None CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade per ft New Used ling Well Cubic ft. Conductor Fresh water 8-5/8 stac 24 X 750 750 To Surface Coal Coa					Shale	ellus	Marc	ON	FORMATI	ARGET	EOLOGICAL T
Approximate coal seam depths: None Is coal being mined in this area: Yes 7 No X / CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CONCLOT Size Grade per ft New Used Iing Well Cubic ft. Conductor Size Grade per ft New Used Iing Well Cubic ft. Conductor Size Grade per ft New Used Iing Well Cubic ft. Conductor Size Grade per ft New Used Iing Well Cubic ft. Coal Intermed. 460 128 128 Production 4-1/2 ST&C 9-1/2 X 4000 425 SKS Depths se Tubing 460 Liners 460 470 480 NOTE: Regulation 7.02 of the Department of Mines provides that the original and for copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form prescribed by Regulation 11, (ii) a bond in one of the forms preson Regulation 12, or in the thereof the other security allowed by Code 822-4-12 form IV-9, "Reclamation Plan" applicable to the reclamation required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applicable, the consent required by Code 822-4-12. and (v) if applica		feet.	y X / Cabl	<pre>. Rotar feet; s</pre>	feet 	4000 Fresh	well hs:	alatad i			
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CASING OR TUBING TYPE Size Grade per ft New Used ling Well Cubic ft. Conductor Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal Intermed.						res	rea:	i this a	nined in	peing n	is coal b
TUBING TYPE TUBING TYPE Conductor Conductor Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Coal	RS	PACKER	CEMENT FILL	NTERVALS I	FOOTAGE I	. 1	ONS	Fielcati	PROGRAM		
Size Grade per ft New Used ling Well CUPICTI. Kinds Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Fresh water 8-5/8 ST&C 24 X 750 750 To Surface Freduction 4-1/2 ST&C 9-1/2 X 4000 425 SKS Depths se Tubing Liners Perforation NOTE: Regulation 7.02 of the Department of Mines provides that the original and fo copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form prescribed by Regulation 11, (ii) a bond in one of the forms prescr Regulation 12, or in lieu thereof the other security allowed by Code 822-4-28 Form IV-9, "Reclamation Plum" applicable to the reclamation required by Code 822-4-212 and Regulation 23, (iv) unless previously paid on the same well, the required by Code 822-4-20 and Regulation 23, (iv) unless previously paid on the same well, the required by Code 822-4-20 and Regulation 24, (iv) the sess previously paid on the same well, the separate Form IV-2 shall not be required for fracturing or stimulating as where fracturing or stimulating is to be part of the work for which a permit sought and is noted as such on the Form IV-2 filed in connection therewith. THIS PERMIT MUST BE POSID AI THE VIEL SITE All previous being in a carriogo with Charter 22, (if the W. V. Code, the breaking the same is the same if a consideration under Code \$22-4-20, if the pair is to be issued within fifteen (15) days of receipt thereof: WAIVE R. The undersigned coal operator / owner / lessee / of the coal under this we location has examined this proposed well location. If a mine map exists which cover area of the well location, the well location has been added to the mine map. The signed has no objection to the work proposed to be done at this location, provided well operator has complied with all applicable requirements of the West Virginia C the governing regularions.	lage de la Co		UP OR SACKS	Left in	For Dril-	•	•	Weight			
The following waiver must be completed by the coal operator and by any coal or coal lessee who has recorded a declaration under Code \$22-4-20, if the price of the well location has examined this proposed well location, the well location, the well location, provided in the sex Virginla C the governing regulariors. **Tobing**		Kinds	Cubic ft.	Well	ling	Used	New	per ft	Grade	Size	
Intermed. Top Production 4-1/2 ST&C 9-1/2 X 4000 425 SKS Depths see		1	To Surface	750	750			24	CTO C	0.5/0	
Production 4-1/2 ST&C 9-1/2 X 4000 425 SKS Depths se Tubing Liners Production 7.02 of the Department of Mines provides that the original and for copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed from 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 required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by E22-4-8a from the owner of any water well or dwelling within 200 feet of the posed well. A separate Form IV-2 shall not be required for fracturing or stimulating a water fracturing or stimulating is to be part of the work for which a permit sought and is noted as such on the Form IV-2 filed in connection therewith. IMIS PERMIT MUST SE POSIED AT THE WELL SHE All provinces being in accurace with Chair 22, of the W. Vo. Code, the backs in benefit capital in the consensation of the work for which a permit be completed by the coal operator and by any coal or coal lessee who has recorded a declaration under Code \$22-4-20, if the point of the will be provinced a declaration of the work provinced with in fifteen (15) days of receipt thereof: What Y E R The undersigned coal operator fowner flessee for the coal under this was to be issued within fifteen (15) days of receipt thereof: What Y E R The undersigned coal operator fowner flessee for the coal under this was completed to the work proposed to be done at this location, provided well operator has complied with all applicable requirements of the West Virginia C the governing regularions.		Sizes			- 1		 ^-		5100	8-3/8	
NOTE: Regulation 7.02 of the Department of Mines provides that the original and fo copies of Form IV-2 must be filed with the Department, accompanied by (i) a the form prescribed by Regulation 11, (i) a bond in one of the forms prescribed segulation 12, or in lieu thereof the other security allowed by Code 822-4-28 Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code 822-4-12b and Regulation 23, (i) unless previously paid on the same well, trequired by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-12a, and (v) if applicable, the consent required by E22-4-12a from the owner of any water well or dwelling within 200 feet of the posed well. A separate Form IV-2 shall not be required for fracturing or stimulating as where fracturing or stimulating is to be part of the work for which a permit sought and is noted as such on the Form IV-2 filed in connection therewith. THIS PERMIT MUST SE POSTED AT THE WELL SITE All previous being in a marriance with Chair 22, of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the V. Vo. Code, the backen is bridly a revoid of the vole of the vole of the V. Vo. Code, the backen is bridly a revoid of the vole		Dankle col				2.5					ntermed.
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