



#### REVISED

IV-35 (Rev 8-81)

## GEVEROES

MAY 1 7 1982

#### State of Mest Virginia Pepartment of Mines Gil und Gas Pivision

	4/29/82	2		
Opera	tor's	•		
Well	No	#1-A		
Farm	Corbin	Heirs	etal	
API N	Ю. <u>4</u> 7 -	107	_	1157

OIL AND GAS DIVISION WYDEPARTMENT OF MINES

WELL OPERATOR'S REPORT

OF

#### DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil xx / Gas xx/ Liquid Injection (If "Gas," Production / Undergro	on/Wast	te Disposa ge/ Deep	l/ p/ Sha	ıllo <u>w</u> /)		
LOCATION: Elevation: 900' Watershed_	Bull Run			- -a-		
District: Union County Woo			e Willow	Island		
COMPANY Energy Unlimited, Inc.			<del>,</del>	I Coment		
ADDRESS 427 Second St. Marietta, OH 45750	Casing	Used in	Left	Cement fill up		
DESIGNATED AGENT Dave Clovis	Tubing	Drilling	in Well	Cu. ft.		
ADDRESS Union Trust Bldg. Parkersburg, WV 2610	13126					
SURFACE OWNER West Vaco	20-16 Cond.					
ADDRESS 1900 Blizzard Dr. Parkersburg, WV 261	01 13-10"					
MINERAL RIGHTS OWNER Corbin Heirs	9 5/8					
ADDRESSN/A	8 5/8	263'	263'	100sx		
OIL AND GAS INSPECTOR FOR THIS WORK Paul	7					
Goodnight ADDRESS Smithville, WV	5 1/2					
PERMIT ISSUED 5/20/81	4 1/2	2729	2729	250sx		
DRILLING COMMENCED	3					
DRILLING COMPLETED	2					
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used					
ON	<u> </u>	<u> </u>	. 26201-	26641 -		
GEOLOGICAL TARGET FORMATION Gordon						
Depth of completed well 2746 feet			e 10012			
Water strata depth: Fresh 90' feet; Salt 1350' feet						
Coal seam depths: none Is coal being mined in the area? no						
OPEN FLOW DATA						
Producing formation Gordon	Pay	y zone dep	th2630'-2	664' feet		
Gas: Initial open flow 0 Mcf/d		_				
Final open flow 10M Mcf/d	Fi	nal open f	low1.	5 Bb1/d		
Time of open flow between init	tial and f	inal tests	24 ho	urs		
Static rock pressure 400 psig(surface	ce measure	ment) after	rhou	rs shut in		
(If applicable due to multiple completion	2)					
Second producing formation	Pa <sub>y</sub>	y zone dep	th	feet		
Gas: Initial open flowMcf/d	Oil: In	itial open	flow	Bbl/d		
Final open flowMcf/d	Oil: Fi	nal open f	low	Bbl/d		
Time of open flow between ini-	tial and f	inal tests	ho	urs		
Static rock pressurepsig(surface	e measurem	ent) after	hou	rs shut in		

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

FW 50# sand in 34,000 gal H2O thur 14 - .5 hole from 2642' to 2655'

WELL LOG

				REMARKS
FORMATION COLO	OR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh
				and salt water, coal, oil and gas
soil	soft	0	15	
shale	soft	15	90	
sand	hard	90	115	freshwater
shale	soft	115	285	rreshwater
sand	hard	285	305	
sandy shale	soft	305	522	
sand	hard	522	548	`
shale	soft	548	710	
sand	hard	710		
shale	soft	740	740	
sand	hard		865	
silty-shale	soft	865	898	
sand		898	1062	
shale	hard	1062	1115	
	soft	1115	1284	
sandy-shale	medium	1284	1350	
Salt Sand	hard	1350	1480	salt water
silty shale	soft	1480	1618	•
Maxton	hard	1618	1686	salt water
silty-shale	medium	1 <b>6</b> 86	1712	
Keener	medium	1712	1720	salt water
shale	soft	1720	1744	
Big Injun	hard	1744	1930	salt water
shale	soft	1930	2220	
Wells Stray	medium	2220	2224	
shale	soft	2224	2276	
Berea	hard	2276	2284	show of oil & gas
sily—shale	medium	2284	2390	
Gantz	medium	2390	2394	little gas
shale	soft	2394	2514	3
Thirty-Foot	medium	2514	2523	little gas
shale	soft	2523	2630	
Gordon	medium	2630	2664	show of oil & gas
shale	soft	2664	2746	T. D. 2746'
			1 1	

(Attach separate sheets as necessary)

By:

Date: Bouglas M. Galloway 4/29/82

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 the provider in the last log shall."



## RECEIVED

OCT 13 1981

### OIL AND GAS DIVISION WY DEPARTMENT OF MINES

#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

# Oil and Gas Division

			WELL	RECORD		Rotary	
Quadrangle						Recycling	
Permit No. 4	7-107-11	.57					odStorage
						Disposal	
						_	(Kind)
Company	Second	y Unlimited	Inc. La, OH 45750	Casing and	Used in	Left	6
Cork	oin Heir	s. Marieti	06.5	Tubing	Drilling	1	Cement fill up
			Acres 96.5		137 mmg	in Well	Cu. ft. (Sks.)
Location (water			0001	Size			1
District Uni	on.			20-16		1	
				Cond.			
the surface of	LTRCT 15 OV	vned in fee by_		13-10"			
A 4.4				9 5/8			
Address	·····			8 5/8		263'	100sx
		by Corbin He		7			20052
				5 1/2			
Drilling Comme				4 1/2		2729.37	250sx
Drilling Complete	ted}	3/10/81		3			2305k
Initial open flow			-0- bbls.	2			•
Final production	10M	cu. ft. per da	175 bble	Liners Used			
Well treatment of	•	_hrs. before tes	400 RP.				
Coal was encoun	tered et	none					
Fresh water	90'		Fee		inches		
Producing Sand	Gor	don	Feet		Water 1350'		Feet
				Depti	h <u>2630'</u> –	2664'	
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water •	Remarks
shale	gray	soft		1284'			top logged
sandy-shale	gray	medium	1284	1350'		j	interval 1250'
sand	white		1350'	1480'	salt wa		
silty shale sand		soft	1480'	1618'	Sait wa	rer S	Salt Sand
silty-shale	white	hard	1618'	1686'	salt wa	ter M	laxton
shaly-sand	gray gray	medium medium	1686'	1712'		-	
shale	gray	soft	1712' 1720'	1720'	salt wa	ter K	eener
sand	white	hard	1744'	1744' 1930'		_	•
shale	gray	soft	1930	2220	salt wa	ter B	ig Injun
siltstone	gray	medium	2220	2224'		, - <del>-</del> -	
shale sand	gray	soft	2224'	2276'		- W	ells Stray
Cara	white	hard .	2276'	2284'	show of	oil R	erea
silty-shale	gray	medium	22041		& gas		Cu
siltstone	gray	medium	2284' 2390'	2390'			
shale	gray	soft	2394'	2394' 2514'	little o	jas G	antz
siltstone	gray	medium	2514'	2523	little o		
shale siltstone	gray	soft	2523	2630'		jas 11 —	nirty-Foot

26641

2746'

show of oil

& gas

2630'

2664'

gray

gr-brown medium

soft

siltstone

shale

Gordon T.D. 2746'

Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil. Gus or Water	* Remarks
					,
	•				
, .		•			
•				•	
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				•	
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AP-CE			·		
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APPROVED Except Chining Tre. Owner

By The State of the Control of

(Litte)

"I have read and understand the reclamation real Chapter 22, Article 4, Section 12 b and will carry our



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



G. Sw.

#### OIL & GAS DIVISION Oil and Gas Division DEPT. OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

O THE DEPARTMENT OF MINES.		7 7.	ing templay in	. 4.60
TO THE DEPARTMENT OF MINES,		May 15,		447.
Charleston, W. Va.	DATE			
Surface Owner Westvaco	Company_	Fnergy Unl	imited, Inc.	
1900 Blizzard Dr. Parkersburg, WV	Address		St. Marietta, (	)H 45750
Address Corbin Heirs etal	Farm Co	orbin -	Acres	96.5
Mineral Owner		(waters) Bu		rise .
Address N/A Same	•	#1	Elevatio	9001
Coal Owner	Well No	Union		Mood
Address	District			is
Coal Operator None	Quadrangl	e Willow Is	Land	**
	en e	tin tinggan sa	n kan di dia kacamatan di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabu Kabupatèn Kabupatèn	
Address RMIT MUST BE POSTED AT THE WELL SITE	and the second of the second s		undur en exploration de la contrata br>La contrata de la contrata del contrata de la contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata del contrata de la contrata de la contrata de la contrata del contrat	
and the second s	and the control of the Market			, Liurot. Séria
isions being in accordance with Chapter 22,	A Company of the Comp		en er er ja die er er er er er er er er. Die	
W. Va. Code, the location is hereby approved	INSPECTOR		en e	
Drilling This permit shall expire-if	TO BE NOTI	FIED Paul	Goodnight	7257
ons have not commenced by 1-22-82	And the second of the second o	a	DX7	
is indee indicated and indicat	ADDRESS	Smithville	wv	
iel Tis wholdle	PHONE 477-			BH v
outy Director - Oil & Gas Division	PHONE 477	7	an entrat browns	
	American Marian Communication (Communication of Communication of Communica	A 2 - 2 - 1 - 1	関係に対抗したできばる	(สหราช
OFART FACE.	\$ 14 c	en egyetek en		
The undersigned well operator is entitled to drill upon title thereto, (or as the case may be) under grant or long the Energy Unlimited	on the above name	d larm or tract		n Woirc
19 in Wood County, Book N			FRACTURE OR	TA.IIIMITS
XX NEW WELLDRILL DEEPER			FRACIORE OR	) I IMOLATI
OIL AND GAS WELL ORIGINALLY DR			ing and the second of the seco	
OIL AND GAS WELL ORIGINALLY DR	ILLED BEFORE	JUNE 5, 1969.		lor operat
OIL AND GAS WELL ORIGINALLY DR	ILLED BEFORE	JUNE 5, 1969.	d all coal owners and	or operat
OIL AND GAS WELL ORIGINALLY DRI The enclosed plat was prepared by a registered engi-	ILLED BEFORE	JUNE 5, 1969.		
OIL AND GAS WELL ORIGINALLY DRI The enclosed plat was prepared by a registered engi- have been notified as of the above date.	neer or licensed la	JUNE 5, 1969.	hev wish to make, o	are requi
OIL AND GAS WELL ORIGINALLY DRI  The enclosed plat was prepared by a registered engine have been notified as of the above date.  The above named coal owners and/or operator are here make by Section 3 of the Code, must be received by	ILLED BEFORE one or licensed later or licensed later or licensed that or filed with the	JUNE 5, 1969.  and surveyor an  any objection  Department of	hey wish to make, o Mines within ten (10	r are requi ) days. *
OIL AND GAS WELL ORIGINALLY DRI  The enclosed plat was prepared by a registered enginerate been notified as of the above date.  The above named coal owners and/or operator are his make by Section 3 of the Code, must be received by	ILLED BEFORE oneer or licensed later or licensed later or filed with the led by registered n	JUNE 5, 1969.  and surveyor an  any objection  Department of	hey wish to make, on Mines within ten (10 to the above name	r are requi ) days. * coal operat
OIL AND GAS WELL ORIGINALLY DRI  The enclosed plat was prepared by a registered enginerate been notified as of the above date.  The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by Copies of this notice and the enclosed plat were mail	ILLED BEFORE oneer or licensed later of the series of the	JUNE 5, 1969.  and surveyor an  any objection  Department of	hey wish to make, on Mines within ten (10 to the above named)	r are requi ) days. *
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## THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	XX. DRILL	DEEPENF	RACTURE-STIMULATE
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:	
NAME N/A	Known		
		ADDRESS Union Tru	st Bldg. Parkersburg, WV
ADDRESS	to the second se	40-	-4403
TELEPHONEESTIMATED DEPTH OF COMPL	20001	_ TELEPHONE	CARLE TOOLS
ESTIMATED DEPTH OF COMPL	ETED WELL: <u>2800</u> .	_ ROTARY	CABLE TOOLS
PROPOSED GEOLOGICAL FORM	MATION: GOLGOIT	· •	
TYPE OF WELL: OIL_			
	RECYC	LING WATER FLO	ODOTHER
TENTATIVE CASING PROGRAM	<b>1</b> :		
CASING AND TUBING SIZE	USED FOR	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8 X	250'	250'	to surface
7			
5 1/2			
4 ½ X	TD	TD	280 or as required b
3			Pcrf. Top rule 15.01
2			Perf. Bottom
Liners	The second secon		Perf. Top
			Perf. Bottom
	CL: OF OG - 1, SHOWING OR	IGINAL PERMIT NUMBER AN	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD
MUST ALSO BE SUBMITTI		COLL OF THE TEXT AND I	THE ORIGINAL WELL RECORD
TO FRACTURE - STIMULATE:		n de la companya de La companya de la co	
OIL AND/OR GAS WELL O BOND, PERMANENT PLAT			COPIES OG - 1, PERFORMANCE
OIL AND/OR GAS WELL O ING ORIGINAL PERMIT NU		CE BOND	9, FIVE COPIES OG - 1, SHOW-
Required forms must be file	d within ninety (90) days o	f completion for bond release.	Inspector to be notified twenty-
four (24) hours in advance.	A Committee of the Comm	<del>-</del>	All Marie and applications of the second
	Commence That I was to see the second		and the same of th
20 Ex.	some Di-		and the second of the second o
The following waiver must thereof.	be completed by the coal	operator if the permit is to be	issued within ten days of receipt
WAIVER: I the undersigned, Age	ent for	Coal Company Owner	or Operator of the coal under
• • •		maps this proposed well locati	
			ell being drilled at this location,
			7, Chapter 22 of the West Virginia
•		Fo	or Coal Company

Official Title