





Rev 8-81)

OIL & GAS DIVISION " DEPT. OF WINES



State of West Birginia Bepariment of Mines

Gil und Ces Phision

1.50	
Date October 10, 1983	
Operator's	-
Well No. J.B. Wilson #1	
Farm J.B. Wilson	
API No. 47 - 073 - 1525	

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL '	TYPE:	Oil X / Gas X / Liquid Injection (If "Gas," Production X / Underground				llow/)
LOCAT	ION:	Elevation: 746 Watershed A	lum Cave	Run		The second of th
		District: Jefferson County Plea				Z
				,	·	
COMPA COMPA	NY_L	& B Oil Company, inc.			į.	
ADDRE	SS <u>P</u>	.O. Box C, St. Marys, WV 26170	Caşing	Used in	Left	Cement fill up
DESIG	NATED	AGENT Bernard Tice	Tubing	Drilling	in Well	
ADDRE	SS_P	.O. Box C, St. Marys, WV 26170	Size			
SURFA	Œ Œ	NER J.A. Wilson	20-16 Cond.			
ADDRE	SS_D	utch Ridge Rd., Beaver, PA 15009				
MINER	AL RI	GHIS OWNER J.A. Wilson	9 5/8			
ADDRE	SS_D	utch Ridge Rd., Beaver, PA 15009	Name and Property of the Party	876'	8761.	to surface
OILA	NO GA	S INSPECTOR FOR THIS WORK Robert	7			
Lowt	her	ADDRESS 3rd St., Middlebourne	5 1/2			
PERMI	T ISS	SUED 9-27-82	4 1/2	4168'	11601	600 sks
DRILL	ING C	OMMENCED 10-19-82	3	4100	4100	000 585
DRILLING COMPLETED 10-22-82						
IF APPLICABLE: PLUGGING OF DRY HOLE ON						
	KING.	S PROGRESSION FROM DRILLING OR VERBAL PERMISSION OBTAINED	Liners used			
GED LC	XGICAL	TARGET FORMATION Devonian Sh	nale	Dep	th 4	200 feet
	Depth	n of completed well 4200 feet R	otary x	/ Cabl	e Tools	
Water strata depth: Fresh 80 feet; Salt 1310 feet						
	Coal	seam depths: None	Is coal	being min	ed in the	area? NO
OPEN	FLOW	DATA				<u>-</u>
			Pay	zone dep	th 362	9 feet
Producing formation Gordon, Speechley Pay zone depth 3629 feet Gas: Initial open flow 750 Mcf/d Oil: Initial open flow 0 Bbl/d						
Final open flow 500 Mcf/d Final open flow 0 Bbl/d						
		Time of open flow between initi				
	Stati	ic rock pressure 920 psig(surface		•	Mario Ma	
		applicable due to multiple completion-			**************************************	
	•	nd producing formation		zone dep	th	feet
		Initial open flow Mcf/d				
		Final open flow Mcf/d				
		Time of open flow between initi			1	
	Stat	ic rock pressure psig(surface				•
		NEW RESIDENCE AND AND ADDRESS				norse side)

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

Stage #1 - 14 perfs. from 3564 to 3629 Frac with 700,000 SCF N2.

Stage #2 - 14 perfs. from 3408 to 3474 Frac with 700,000 SCF N2.

Stage #3 - 18 perfs. from 2363 to 2420 Frac with foam frac 300,000 SCF N2 20,000 lbs. 20/40 sand.

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
			75
Shale	0	350	
Red Shale and Sandstone	350	950	
Sandstone and Shale	950	1966	
Berea	1966	1970	
Gordon	2258	22,76	
Speechley	3408	3629	
Shale	3629	4204	Huron@tD.
	No. of the Control of		·
	ttalest problems and a second		4204
			1970
			2234
			4204
			746 34 5 8
	Region of the Control		3458
		eneral American Property of the Control of the Cont	
	-	tigeness and the second	

(Attach separate sheets as necessary).

L & B Oil Company, Inc.	
Well Operator	
By: Bernard Tree, President	
Date: October 10, 1983	

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 will, encountered in the drilling of a well."

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: WILSON, J. A. Operator Well No.: J. B. WILSON 1 LOCATION: Elevation: 738.00 Quadrangle: SCHULTZ

District: JEFFERSON County: PLEASANTS
Latitude: 9710 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 1470 Feet West of 81 Deg. 12 Min. 30 Sec.

P. O. BOX 730
ST. MARYS, WV 26170-0000

Agent: BERNARD TICE

Inspector: SAM HERSMAN
Permit Issued: 11/203/97
Well work Commenced: 2/14/98
Well work Completed:
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet)
Fresh water depths (ft)

Is coal being mined in area (Y/N)?

Company: ECOLOGICAL ENERGY, INC.

Casing & Tubing	Used in Drilling	- Hereitone	Cement Fill Up Cu. Ft.
Size	 	### CONTRACTOR OF CONTRACTOR O	
8 5/8"	876'	876'	Cmt. to Sur.
4 1/2"	e de la companya de l	4168'	600 SKS.
	! 	1	
	 EXIS	STING	

OPEN FLOW DATA

Coal Depths (ft):

Salt water depths (ft)

	Squaw	_ 1580 '
Producing formation	Pay	zone depth (ft)
Gas: Initial open flow	MCF/d Oil: Initial	Lopen flow Bbl/d
Final open flow	15 MCF/d Final o	open flow 2 Bbl/d
Time of open flow	petween initial and fina	al tests 40 Hours
Static rock Pressure	psig (surface pres	ssure) after "Hours

Second producing format	cion Pay	zone depth (ft)
Gas: Initial open flow	MCF/d Oil: Initial	
Final open flow	MCF/d Final o	open flow Bbl/d
Time of open flow	between initial and fina	
Static rock Pressure	psig (surface pres	ssure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.



					7 7
For:	ECOLOGICAL ENERGY, INC. By: Sabata	C0r	nsultant		— \(\)
	Date:	3/9/	/98		_ (
	OV	ÆR			`
			APR	1999	

Temporary Bridge Plug: 4 1/2" Solid Bridge Plug set at 1680'

Perforated Interval: (1570' - 1576') 6 holes (1580' - 1586') 6 holes

(1580' - 1586') 6 holes 12 holes total, .041"

Fracturing treatment: 500 gals. 7 1/2% HCL. acid, 337 BBLS. treated water,

Breakdown Press.: 4100#, Avg. rate: 11.07 BPM,

Avg. Press.: 2614#, 25000 Lbs. 20/40 sand, ISIP: 1813#

See original IV-35 State Report for additional formation information and flow data.

SERVINITARIES FORTON THE WOLL SHE CONTROL OF THE CO	
PROVIDED FOR STAFFORM	
WELL TYPE: Oil xx / Gas xx / (If "Gas", Production XX / Underground storage / Deep / Shallow District: Jefferson County: Pleasants Quadrangle: Schultz 71 WELL OPERATOR L 8 B Oil Company, Inc. Address P. O. Box C St. Marys, WV 26170 Oil AND GAS St. Marys, WV 26170 OIL AND GAS Dutch Ridge Road Beaver, PA 15009 Acreage 135 SURFACE OWNER John Wilson, etal Address Dutch Ridge Road Address Road Road Road Road Road Road Road Road	
Oli And Gas Well Permit Application Well Type: Oil xx / Gas xx / (if "Gas", Production XX / Underground storage / Deep / Shallow LOCATION: Elevation: 738' Watershed: Alum Cave Run District: Jefferson County: Pleasants Quadrangle: Schultz 71 Well Operator L & B Oil Company, Inc. Desicnate Operator St. Marys, WV 26170 Water Operator St. Marys, WV 26170 Oil AND GAS ROYALTY OWNER John Wilson, etal Address Dutch Ridge Road Address Dutch Ridge Road Beaver, PA 15009 Acroage 135 SURFACE OWNER John Wilson, etal Address Dutch Ridge Road Beaver, PA 15009 Acroage 135 FIELD SALE (IF MADE) TO: NAME None Address One Address County Robot Wilson Of RECORD: NAME None Address St. Middlebourne, WV Telephone 304-758-4764 The undersigned well operator is entitled to operate for oil or gas purposes at above location under a deed / lease XX / other contract / dated 10/24, 19 to the undersigned well operator from (If said deed, lease, or other contract has been reconsoli) Recorded on 10/27 , 1981, in the office of the Clerk of County Commission of Pleasants County, West Virginia, in 168 Book at page 676. A permit is requested as follows: PEPORSSED WORK: Drill xxx/ Drill Deeper / Redrill / Fracture or stimulate	
WELL TYPE: 0il xx / Gas xx / (If "Gas", Production XX / Underground storage / Deep / Shallow_ LOCATION: Elevation: 738' Watershed: Alum Cave Run District: Jefferson County; Pleasants Quadrangle: Schultz 7† WELL OPERATOR L & B 0il Company, Inc. DESIGNATED AGENT Loren E. Bagley Address P. O. Box C Address P. O. Box C St. Marys, wv 26170 OIL AND GAS ROYALIY OWNER John Wilson, etal COAL OPERATOR None Address Dutch Ridge Road Address Dutch Ridge Road Address Address Dutch Ridge Road Address Address Dutch Ridge Road Address Dutch Ridge Road Address Address None Address None Address None Address Dutch Ridge Road Ridge Road Address Dutch Ridge Road Road Ridge Road Ridge Road Ridge Road Ridge Road Road Ridge Road Ridge Road Ridge Road Ridge Road Road Ridge Road Ridge Road Ridge Road Ridge Road Ridge Road Ridge Road Road Ridge Road Ridge Road Ridge Road Ridge Road Road Ridge Road Ro	
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rnorused work: Drill XXX/ 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.	With the second
The above named coal operator, coal owner(s), and coal lessee are hereby notified that objection they wish to make or are required to make by Code \$22-4-3 must be filed wit	
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 bee	
mailed by registered mail or delivered by hand to the above named coal operator, coal er(s), and coal lessees on or before the day of the mailing or delivery of this Appli	
to the Department of Mines at Charleston, West Virginia.	
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: L & B Oil Company, Inc.	
Well Operator	
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION By: Gall U Mala	
1613 WASHINGTON ST., E.	w. r. o'this steepensonhild o'
CHARLESTON, WV 25311 Its:	

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CO	NTRACTO	OR (IF	KNOWN)		UI	nknown			
		A	ddress						
GEOLOGICAL Estimate Approxim Approxim Is coal	d depth late was late coa	n of co terstr alseam	mpleted ata dept	well_ hs: Nor	4200 Fresh ne)- fee , 80		n) ry <u>xx</u> / Cabl salt, <u>N/A</u>	e tools/ _feet.
CASING AND CASING OR TUBING TYPE		SPE	M CIFICATI Weight per ft		Used	For Dril		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
Conductor Fresh water	10"	RL.	40.5	XX		250	250	to surfac	Kinds
Coal			 	 					 Sizes
Intermed.	8 5/8	RL	23	XX	1	1200'	1200	to surfacr	L
Production	4 ½ "	RL	10.5	XX		4200	4200	By rule150	
Tubing									
Liners	-			 					Perforations:
					 			1	Top Bottom
	1			1	+			ł	
Form 822-4 require 822-4 posed A sepa where sough Yes No upon a lear royalty or	IV-9, ' -12b ar red by -8a fro well. arate F fractu t and i XX ase or any which	Reclam Id Regu Code 8 Im the Form IV Uring of Is note The ri other simila is not	ation Pl lation 2 22-4-12a owner of -2 shall r stimul d as suc ght to contin r provi	an" a 3, (i 3, and any not ating h on extr uing sion ntly	pplication water be reconstant the Fount for	while to the description of the part of the part of the produce ract or compensations.	he reclamationsly parable, the divelling a fracturation filed in a contraction to	ation require id on the sam consent requ within 200 fe ing or stimul ork for which connection the et the oil of the owner	e well, the fee ired by Code et of the pro- ating a well a permit is
		•							
or codis to is to The undersig ocation has rea of the igned has n	al less be iss ned coa examir well lo o object	see who sued with all oper the third thin tomplie	has received thin fif ator s propose, the we do not be worth at the work at th	orded teen own ed we ill lo	a dec (15) d WAL er_ ell location copose	elaration lays of real $\frac{V E R}{I}$ lessee that ion. In has been done of the decomposition of the second contract of the second contract in the second contrac	under Codeceipt the / of If a mine n added to	de \$22-4-20, ereof: the coal unde map exists w o the mine ma is location,	any coal owner if the permit er this well which covers the underprovided the rginia Code and
					ľ.	1.0 P			The second secon
					, B	y:			n mite salah s

Page 1 of
Form WW2-A
(6/94)
File Copy

1)	Date: 9/15/97
2)	Operator's well number
-	
3)	API Well No: 47 - 73 - 1525
·	State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served: 5) (a (a) Name J. A. Wilson) Coal Operator: Name N/A
	Address Dutch Ridge Road	Name N/A Address (b) Coal Owner(s) with Declaration
	(b) Name	(h) Coal Owner(s) with Declaration
	Address	Name N/A Address
	(a) Nama	Address
	Address	Name
•		NameAddress
6)	Inspector Sam Hersman	(c) Coal Lessee with Declaration Name N/A Address
	Address Rt. 1, Box 248	Name N/A
	Telephone (304)628-3185	Address
	TO THE PERSON(S) NAI	MED ABOVE TAKE NOTICE THAT:
400000000000000000000000000000000000000	Included is the lease or leases or other	er continuing contract or contracts by which I hold the
right t	o extract oil and gas OR	
Virgin	ia (see page 2)	Chapter 22, Article 6, Section 8(d) of the Code of West
	I certify that as required under Chapte	r 22 of the West Virginia Code I have served copies of
this n	otice and application, a location plat, a	and accompanying documents pages 1 through on
uie ar	pove named parties, by: Personal Service (Affidavit attac	shed)
	X Certified Mail (Postmarked post	al receipt attached)
	Publication (Notice of Publication	n attached)
	I have road and understand Chapter	00.0 and 00.00D 44.40 and 1.
condit	ions of any permit issued under this app	22-6 and 38 CSR 11-18, and I agree to the terms and
	I certify under penalty of law that I	have personally examined and am familiar with the
inform	iation submitted on this application for	n and all attachments, and that based on my inquiry of
inose	individuals immediately responsible for e, accurate, and complete.	obtaining the information, I believe that the information
is liuc	, accurate, and complete. I am aware that there are significant i	penalties for submitting false information, including the
possib	ollity of fine and imprisonment.	
	Well Opera	tor Ecological Energy Inc.
		E. Loxtercamp
	lts: <u>Presi</u> Address	
	 	organtown, W. Va. 26507
	Telephone	1-800-846-7587
Subsc	cribed and sworn before me this 14 da	ay of <u>0 c7</u> , 19 <u>97</u>
My co	mmission expires	Notapy Rublic Notapy Public
.v.y CO	mmission expires	JOHN JOHN JOHN STORE
		JOHN PHILIP WITT SERVICE PLUS INC. MORGATOWN, WY SECOT My Commission Exprise December 19
	•	MY COTTIMENON EXPIRED DECEMBER 4, 2004
		or of the state of

FORM	WW-2B				-		Pageof	
*			STAT	E OF WEST	VIRGINIA			
	DIVIS	ION OF M			TION, OFFI APPLICATION			
			***************************************				073 1525 Frac	
471	Well Ope	rator:	Ecologica	1 Energy In	ic. 1524	10 0	UUG	
244	Operator	's Well 1	Number:J	. B. Wilson	. #1		Elevation: 746'	
	Well typ	e: (a) (Dil/	or Gas	<u>X</u> /	Issu	ed 11/03/97 à 11/03/99	
		(b)	If Gas: I	Production Deep	n_/ Underg	round Sto	rage/ $110w_X$ /	
5)	Proposed	Target 1	Formation(s): Sq	383 uaw	· A		
6)	Proposed	Total De	epth:	1580'	feet	Environ	WOLLY EN	
7)	Approximate fresh water strata depths:							
8)	Approximate fresh water strata depths: Approximate salt water depths: Approximate coal seam depths:							
9)	Approxim	ate coal	seam dept	:hs:		Ojj _e G		
10)	Does land contain coal seams tributary to active mine? Yes/ No/ Set temporary plug, frac Squaw sand, remove plug,							
11)	Proposed	Well Wo	Set to Se	emporary pl le with ori	ug, frac Squa ginal product	aw sand, rem	ove plug,	
12)						w.	_	
					ING PROGRAM			
TYPE		<u>S</u>	PECIFICATI	CONS	FOOTAGE I	NTERVALS	CEMENT	
		<u>Size</u>	Grade	Weight per ft.	For drilling	Left in	Fill-up (cu. ft.)	
Condu	<u>ictor</u>							
Fresi				1 2			8	
	n Water							
Coal	n Water							
Coal	n Water	8 5/8"			876'	876'	Cmt. to surface	
Coal		8 5/8" 4 1/2"			876'	876' 4168'	Cmt. to surface 600 Sks.	
Coal	rmediate				876'			
Coal Inter	rmediate uction				8761			
Coal Inter Produ Tubir	rmediate uction	4 1/2"						
Coal Inter Produ Tubir	rmediate uction ng rs ERS : Kin	4 1/2"				4168'		
Coal Inter Produ Tubir	rmediate uction ng rs ERS : Kin	4 1/2" ad es oths set		of Oil a		A168'		
Coal Inter Produ Tubir	rmediate uction ng rs ERS : Kin Siz Dep	4 1/2" ad es ths set	or Office		EXI nd Gas Use	A168'		
Coal Inter Produ Tubin Liner PACKI	rmediate uction ng rs ERS : Kin Siz Dep	4 1/2" ad es ths set paid:	or Office	ork Permit	EXI nd Gas Use	A168' USTING Only lamation	600 Sks.	