





State of Mest Airginia

Bepartment of Mines Gil und Gas Aivision

	uly 2-, 1984	
Operat		
Well N)J-663	
Farm	Interstate Lumber	
API No	47 _ 077 _ 0239-	R

(Continue on reverse side)

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Underground	/ Wast	ce Disposal ge/ Deep	/ / Shal	llow_x_/)
IOCATION: Elevation: 1700 Watershed	Sandy Cre	ek		
District: Reno County Presto	n	Quadrangle	Fellowsv	ille
COMPANY J&J Enterprises, Inc.				
OMPANY J&J Enterprises, Inc. ADDRESS P.O. Box 48, Buckhannon, WV 26537	Casing	Used in	Left	Cement
DESIGNATED AGENT Richard Reddecliff	Casing Tubing	Drilling		fill up Cu. ft.
ADDRESS P.O. BOx 48, Buckhannon, WV 26201	Size	DETITIO	11. 11011	Cu. 20.
SURFACE OWNER Interstate Lumber CO.	20-16			
ADDRESS 601 E. Main St., Kingwood, WV 26537	Cond.	32	0	0 sks.
MINERAL RIGHTS OWNER Sheldon & Sheldon	13-10"			U SAB.
ADDRESS Webster Springs, WV	9 5/8	966,80	966,80	285 sks.
OIL AND GAS INSPECTOR FOR THIS WORK William Rt. 4, pox 317	8 5/8	300(00	300,00	
Blosser ADDRESS Fairmont, WV 26564	7			
PERMIT ISSUED 10/27/83	5 1/2	2642.05	3642.05	290 sks.
DRILLING COMMENCED 6/25/84	4 1/2	3642.05	3642.05	290 SKS.
DRILLING COMPLETED 7/1/84	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Haverty		Dep	th	feet
Depth of completed well 5752 feet F	otary			
Water strata depth: Fresh 870 feet;				
Coal seam depths: 290-94,381-85				area? No
OPEN FLOW DATA				
Producing formation Balltown	Pa	v zone der	o th 349	59-63 feet
		itial open		
Combined Final open flow 189 Mcf/d				
Time of open flow between init				
Static rock pressure 600 psig(surface				
(If applicable due to multiple completion				
Second producing formation lst Ballton	wn-P	ay zone deg	oth 3244	<u>-48</u> feet
Gas: Initial open flow Mcf/d	Oil: I	nitial oper	flow_	Bb1/d
Final open flow Mcf/d				Bbl/d
Time of open flow between init	ial and	final tests	- <u>Λίη</u>	gruge 19 84
Static rock pressurepsig(surface	measure	ment) after	hou	urs shut in

FORM IV-35 (PEVERSE)

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

Balltown: Perforations: 3459-63 (16 holes)
Fracturing; 300 sks. 20/40 sand: 576 Bbls. fluid.

1st. Balltown: Perforations: 3244-48 (16 holes)

Fracturing: 300 sks. 20/40 sand:500 gal. acid: 570 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS $t=60 + (0.0075 \times 3642) + 459.7 = 547 \times 53.35 \times 547 = 29183 = 0.000034 \text{ Pf} = 600 \times 2.72^{(0.000036)}$ $(0.595)(3354)(0.9) = 600 \times 2.72^{(0.06)} = 600 \times 1.06 =$

f=636 psi

WELL LOG

		•	
	ſ		REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fre
FORMITOR WIDE 1212 OF 2011			and salt water, coal, oil and o
Top Soil	0	15	
Red rock & sand	15	80	Damp @ 270'
Sandy shale & sand	80	265	Damp e 270
Sand & sandy shale	265	290	l" stream @ 870'
ეეგ Coal	290	294	1 Stream & 870
Sandy shale & sand	294	381	Gas ck @ 3405 No show
96: Coal	381	385	Gas CR & 3405 NO SHOW
Sandy shale & sand	385	1160	5 - 1 0 2505 Wh
Red rock and sandy shale	1160	1305	Gas ck @ 3525 No show
Sand & sandy shale	1305	1490	5 1 0 2405 We Leve
Little lime	1490	1510	Gas ck @ 3405 No show
Big Lime	1510	1575	
Sand & sandy shale	1575	2445	
Sand & sandy shale	2445	3244	Gas ck @ 3525 No show
lst Balltown	3244	3248	
Sand & sandy shale	3248	3459	
Balltown	3459	3463	
Sand & sandy shale	3463	4120	
Sand & sandy shale Sand & sandy shale	4120	5752 T.I	•
Sand & Sandy Share	4120	3/32 1.1	 -
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(Attach separate sheets as necessary)

J&J Enterprises, Inc.

By: Robert Dahlin - Geologist 7/20/84 Daté:

Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed applications including

1) Date:October	4

2) Operator's Well No. ___ ິງ-663

_			
7	7	0239-REN	caps
_			-

19_83

3) API Well No. 47 - 0 County Permi Old Number 0239

				•	DEP.	S ARTMEN	STATE OF WES	T VIRGINIA OIL AND GAS DIVI	SION	
~					· · · <u>A</u>	PPLICA	TION FOR A W	ELL WORK PERM	[T	The second secon
4) W	ELL TY	PES A	Oil		as	x ::/		DIT LEET N. STA.	T - : HON JOSEC	Transfer of the control of the contr
5) T (004710	В ((If "Gas",	Production	on		/ Undergrou	nd storage	/ Deep	/ ShallowX_/)
3) LC	OCATIC		levation: . istrict:	_				: Sandy Cree		
6) W	FII OP	ERATOR				s Inc	County:		Quadrangle: _	
0) 11	Address			. Box		<u> </u>			ED AGENT Richar	
				khanno		V 2620	01	Address	P.O. E	
8) OI	IL & GA	S INSPEC						9) DRILLING (nannon, WV 26201
Na	ame	Wi	lliam	Blosse	r					lling Company
	Address	·	Rt. #	4, Bo	x 31	7		Address	P.O. Box	
			Fair	mont,	WV	26564				non, WV 26201
10) PR	ROPOSE	D WELL	WORK:	Drill	х	_/ Drill	deeper	/ Redrill	/ Stimulate	
				Plug o	ff old	formation	1/ Per	forate new formation		/
					hysical	change i	n well (specify)_			
		CAL TAR		MATION	i,	lavert	<u> </u>			
		ated depth					fe	eet		
		ximate tra			250)	feet;	salt,0	feet.	
		ximate coa	_		250		Is	coal being mined in th	ne area? Yes	/ NoX
-		ND TUB								
CASING TUBING			1	CIFICATION Weight	S I		POTAC	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
		Size	Grade	per ft.	New	Used	For delling	Left in well	(Cubic feet)	
Conductor		113/4 8 5/8		42	Х		30=	0	0 sks.	Kinds
Fresh wate	er	8 5/8		23	Х		1500	1500	To surface	By Rule 505
Intermedia		0 3/8	EKW	23	X		1500	1500	To surface	Sizes
Production		41/2	J-55	10.5	x		FFFO		-	
Tubing		 	1 33	1 20.3			5550	5550	400 sks.	Depths set
Liners			7: 7: 10	1					#	
			I. Chieberra							Perforations:
							· · · · · · · · · · · · · · · · · · ·	<u> </u>	State Company (Asymptotic Company)	Top r Bottom
								57-1		
		******	Parties property.			·		2012	<u> </u>	
					<u></u>	Age 4				
							OFFICÉ USE	ONLY		
]	DRILLING P	ERMIT		
ermit nu	umber_		47-077-	-0239-	REN				Oct	obox 27 in 22
									Dat	ober 27, 19 83
his pern	mit cove	ring the we	ell operato	r and wel	locatio	n shown	below is evidenc	e of permission grant	.1	
							iny permitted wo		ell operator or his con-	and Gas Inspector, (Refer to tractor shall notify the proper

everse he	ereof.					ppiicatioi	i, piat, and recia	mation plan, subject t	o any modifications ar	nd conditions specified on the
ermit ex	pires _	Oc	tober	27, 19	985		unless we	ell work is commenced	Drior to that date and	prosecuted with due diligence.
			/						prior to that date and	prosecuted with due dingence.
Bond:	and a	Agent	F	Plat:	Casin	2	Fee			
EI RI	ONP	(//	1 00	22/	12	2 1	735		-01	1 1000
L		<u> </u>	12	16		/3				
					•			1/1	12	44.792
IOTE:	Keep on	e copy of	this permi	t posted a	t the de	illing loos	ution	Adm	inistrator, Office of O	il and Gas
			perilli	. posteu a	· me ur	IOCS				F21 -
; =	ŧ		See 1	he reverse	side of	the APP	LICANT'S COP	Y for instructions to	the well operator.	File



1)	Date: Feb	ruary 18	, 19_82
2)	Operator's		
	Well No	J-663	

3) API Well No. 47 County Permit

DRILLING CONTRACTOR:

ank	Time	1224	ne i	Co.
 	0	-	11/2	

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

ck	hannon, N	A 5050	1		OIL AND GA	S WELL FERMI	AFFLICATION		
4)	WELL TYPE	· A Oil		/ Gas					
٦,	WEELTITE				-	/ Underground s	torage	/ Deen	/ Shallow/)
5)	LOCATION:						Candy Cr		, billion,
								OF COURSE	Pallacov(11a
6)	WELL OPER	ATOR_	ST End						M Dalfanhies
	Address		O. B	w 48	A money		Address	P.O. Bo	48
			uokhar	anon, 87	26201			Buokhan	non, WV 25261
7)	OIL & GAS								
	ROYALTY O	WNER -	Inte	rstate	Lundsex C	1	2) COAL OPERA	TOR	
	Address	-	601	E. Main	St.		Address		
			KA	igwood,	WV 265	37			
	Acreage		-	75.75		1	3) COAL OWNER	R(S) WITH DECLARA	ATION ON RECORD:
8)	SURFACE O	WNER	Inter	ratate L	umber CC	-	Name	tern Associat	ed Coal Chrp.
	Address		503	L B. Hai	n St.		Address	- Koppers Bu	ilding
	Acres		Ri	ingwood,	WV 265	37	Manua	Pittsburg	h, Pa. 15319
0)	Acreage FIELD SALE		E) TO:				Name		
7)	Address	(IF WIAL	E) 10.				Address		
	Addiess	-Un	unown			-	4) COALLESSEE	WITH DECLARATI	ON ON RECORD.
0)	OIL & GAS I	NSPECTO	OR TO BE	E NOTIFIED)	*		None	OI. OI RECORD.
-	Name		OK TO DI				Address		
	Address	1704	The state	A Pari	257		7.44.000		
			77-4	STATE OF	URL DEED	4			
5)	PROPOSED '	WORK:		/ D	rill deeper	/ Redril	l/ Frac	ture or stimulate	3
							new formation		
					ge in well (spe				
6)	GEOLOGICA	L TARGI			The same of the last of the la				
	17) Estimated	depth of	completed	well,	5600	feet			
				ths: Fresh,		feet;	salt, Mone	feet.	
	19) Approxin	nate coal se	eam depth	s:2	50	Is coa	al being mined in the	area? Yes	/ No/
(0)	CASING ANI	D TUBING	G PROGE	RAM					
					1			II.	
	CASING OR TUBING TYPE	Size	Grade	PECIFICATIONS Weight per ft.	New Used	FOOTAC	E INTERVALS Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
-	Conductor	17.3/	D-40	42	30	30	0	O oka	Kinds
1	Fresh water	2 5/1	No.	22	M	1500	1800	To esselano	
-	Coal	8 84	non.	22	2	1500	1500	To surface	Sizes
1	Intermediate								
1	Production	42	3-55	10.5	2	5550	5550	400 sks	Depths set
-	Tubing								
1	Liners					45.0			Perforations:
-									Top Bottom
-									
-									
1)	EXTRACTIO								
	Check and pro				ontinuing cor	stract or contracts	hy which I hold the	right to extract oil or	gae
						(See reverse side for		right to extract on or	gas.
2)	ROYALTY PI								
									ng for flat well royalty or any
					er of the oil	or gas in place wh	nich is not inherently	y related to the volume	e of oil or gas so extracted,
C 41	produced or m				.d.d 75 sb	t. V	A 66: J E	IV 60	
3)	Required Copi				eded. If the a	nswer is Yes, you	may use Affidavit F	orm 1v-60.	
24)	Copies of this	Permit A	pplication	and the encl	losed plat and	reclamation plan	have been mailed by	y registered mail or del	livered by hand to the above
	named coal of	perator, co	oal owner((s), and coal	lessee on or b	efore the day of the	he mailing or deliver	y of this Permit Appli	cation to the Department of
	Mines at Char	leston, W	est Virgin	ia.	11			1 1 1 1 1	- 20 1 1
1	Notary.	rda	0-6	mple	las		Signed:	I-die ber 1	after new
1	My Commission	Expires	Octor	de 16	1989		Its: Do	signated Ages	t
					11/				
						OFFICE USE O			1
					I	PRILLING PE	RMIT		
eri	mit number							D	19
Th:	nermit coverie	or the well	operator	and well los	ation shown 1	nelow is evidence	of permission grants	Date d to drill in accordance	e with the pertinent legal re-
								given to the District Oi	
Re	fer to No. 10) P	rior to the	constructi	ion of roads,	locations and	pits for any permit	ted work. In addition		his contractor shall notify the
roj	per district oil a			nours before	e actual perm	itted work has con	nmenced.)		
	mit expires		ember	0: 1963			rilling is commenced	prior to that date and p	prosecuted with due diligence.
]	Bond:	Agen	it:	Plat:	Casing	Fee			1 1,
				- 60	180		LA		Oil and Cas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
 - 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - Work that will be attempted—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.
 - 16) Anticipated formation for which well will be completed
 - 17) Self explanatory
 - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
 - 19) All coal seam depths
 - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
 - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1)A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4)A brief description of the royalty provisions of each such lease or contract.
 - 22) Code 22-4-11(d) and 22-4-11(e).
 - 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 §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

24)	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 the receipt of this Application by the Department.

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 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

days of	receipt thereof.			• • •		
•			WAIVER	•		
amined this propose added to the mine m	ed well location. If a nap. The undersigned	mine map exists w d has no objection	hich covers the area to the work propos	a of the well location,	er this well location has ex the well location has been ocation, provided, the well ning regulations.	n
Date:	, 19		Ву			
			Its		:	•