



## JUL 1 5 1985

OIL & GAS DIVISION

## Sinds of Mest Birginia Bepariment of Mines

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Date	July 11,	1985	
Operator' Well No.	<b>s</b> J-119	98	
_	idenour		
API No. 4			0488

DEPT. OF MINES

WELL OPERATOR'S REPORT OF

			<b>-</b>			
		3070 (Ot)	STIMULATING,	$\bigcirc \mathbb{R}$	PHYSTCAL	CHANGE
DOTTITAC	FRACTURING	AND/OR	21 Thin That II 40 6	<u> </u>		
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OCATION: Elevation: 1510 Watershed	Sandy Creek			
District: Knottsville County Ta	ylor	Quadrangle	Thornto	n
OMPANY J&J Enterprises. Inc.	-	v		
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Caşing	Used in	Left	Cement fill up
DESIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size			Carried Control of Con
SURFACE CWNER Franklin M. Ridenour	20-16 Cond.			
ADDRESS Rt. # 1, Box 397, Grafton, WV 26354	13-10"	30	0	0 sks.
MINERAL RIGHTS OWNER Same as surface	9 5/8			
ADDRESS	8 5/8	1093.85	1093.85	270 sks.
OH AND CAS INSPECTOR FOR THIS WORK Donald	7		and the second s	
Ellis ADDRESS Fairmont. WV 26554	5 1/2			
PERMIT ISSUED 4/29/85	4 1/2	5888.30	5888.30	460 sks
DRILLING COMMENCED 5/20/85	3			
DRILLING COMPLETED 5/29/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	Liners		, and an address of the second	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	used			
COLOCICAL TARGET FORMATION Haverty				<sub>-90</sub> fe
Reach of completed well 5911 fee	t Rotary_	x / Cab	le Tools_	
Water strata depth: Fresho, 560, 1020	t; Salt	o fee	t	
Coal seam depths: 90-92,440-43	Is coa	l being mi	ned in th	e area?
OPEN FLOW DATA Producing formation Haverty	F	ay zone de	pth 5793.	<sub>-97</sub> fe
Gas: Initial open flow Mcf/	a Oil: 1	nitial ope	en flow_	Bbl
Combined Final open flow (1,008) Mcf/	'd I	final open	flow	Bbl
Time of open flow between i	nitial and	final test	ts <u>4</u> 1	nours
Static rock pressure 1350 psig(su	face measu	rement) af	ter 96 h	ours shut
(If applicable due to multiple completed Second producing formation Elk, Ber	Riley	Pay zone d	epth <u>5113-</u>	17 <b>f</b> e
Gas: Initial open flow Mcf	/d Oil:	Initial op	en flow_	Bb
Final open flowMcf	/d Oil:	Final open	flow	Bb
Time of open flow between	initial and	final tes	its	hours
Static rock pressurepsig(sur	face measur	ement) aft	er h	ours shut

FORM IV-35 (REVERSE)

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

Haverty: Perforations: 5793-97 (16 holes) FOAM FRAC ;

3rd Elk: Perforations: 5113-17 (16 holes)
Fracturing: 450 sks. 20/40 sand: 500 gal. acid: 674 Bbls. fluid.

Benson: Perforations: 4493-96(12 holes)

Fractuirng: 415 sks. 20/40 sand: 500 gal. acid: 552 Bbls. fluid.

Riley: Perforations: 4257-59 (7 holes) 4154-56 (6 holes)

Fracturing: 500 gal. acid: 612 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=Pwe XGLS

 $t=6- + (0.0075 \times 5888) + 459.7 = 564 \times \frac{-}{53.35} \times 564 = 30082 = 0.000033$  Pf=1350 x 2.72 (0.000033)

 $(0.619)(4976)(0.9) = 1350 \times 2.72^{0.09} = 1350 \times 1.09$ 

Pf= 1472 psi

WELL LOG

			REMARKS			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh			
FORFILLIA COLDIN 1220 ON 5012			and salt water, coal, oil and gas			
KB - Ground Level	0	10	1" stream @ 50'			
Soil & Clay	10	40				
Sand & shale	40	90	½" stream @ 560'			
Coal	90	92	A			
Sand & shale	92	200	½" stream @ 1020			
Black shale	200	220	i i			
Sand & shale	220	300	Gas ck @ 1609 No show			
White sand	300	330	· A MAR-			
Sand & shale	330	440	Gas ck @ 2272 No show			
Coal	440	443	agranged Control of Co			
Sand & shale	443	565	Gas ck @ 2621 No show			
Sand & shale	565	818	-			
Sand & shale	818	970	Gas ck @ 2873 No show			
Sand, shale & red rock	970	1135				
Sand & shale	1135	1330	Gas ck @ 3159 No show			
Little Lime	1330	1350				
Sand, shale & red rock	1350	1400	Gas ck @ 3350 No show			
Big Lime	1400	1495	4			
Injun	1495	1580	Gas ck @ 4139 10/10-1" w/water			
Sand & shale	1580	1835	23,814 cu.ft.			
Sand & shale - 100 Gard	1835	2830				
Sand & shale	2830	4154	Gas ck @ 4295 4/10-1" w/water			
Riley	4154	4259	15,041 cu.ft.			
Sand & shale	4259	4493				
Benson	4493	4496	Gas ck @ 4453 4/10-1" w/water			
Sand & shale	4496	5113	15,041 cu.ft.			
3 rd Elk	5113	5117				
Sand & Shale	5117	5793				
Haverty	5793	5797				
Sand & shale	5797	(3911)				
		T.D.				
		Brallier@				
		TD.				
		`~.				

(Attach separate sheets as necessary)

J&J Enterpirses, Inc Well Operator Robert Dahlin-Geologist Date: 7/11/85

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."

FORMSY 208 GULL VIII



Date:	24	Apri	1,	, 19	, 85
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2) Operator's J-1198

1)

3) API Well No. 47 091 -0488

I Well No. 47 USI -0408
State County Permit

File

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

E.	HL & GA	> Divis	C18.5	AF	PLICATION	ON FOR A W	ELL WORK PERMII			
A WEITT	PI. D	F Mi	N Ga	· ~	,			•		
w) WELLII		f "Gas", I				/ Iladerarow	nd storage	/ Door	/ Shallow	. X ^
5) LOCATIO		vation:	700000101 15	10'			Sandy Cr			
5, 200:1110					le		Taylor		Thornton	n
6) WELL OP								AGENT Richa		
Address	19	PO Bo		\$2K.\$1771\$1871\$188			Address	PO Box 4		
				. WV	7 2620	שני ו	15221550	Buckhann		26201
8) OIL & GA						7	9) DRILLING C			
Name		nald					Name	SW Jack	Drillin:	g Co.
Address	26	04 Cr	ab Ap	ple	Lane		Address	PO Box 4		
	Fa	irmon	t, WV	265	554			Buckhann	on. WV	26201
0) PROPOSE	D WELL	WORK:	Drill	Χ	/ Drill	deeper	/ Redrill			
11101 001							forate new formation			
			_							
11) GEOLOG	ICAL TAR	GET FOR								
12) Estim	ated depth (	of complet	ed well,		59001		eet			
13) Appro	oximate trat	a depths:	Fresh,	_	65	feet;	salt. 0	feet.		
							s coal being mined in th	e area? Yes	/ No_	XX /
(5) CASING		-						•		
CASING OR	H	SPEC	IFICATIONS	8	N	FOOTA	GE INTERVALS	I CEMENT FILL-UP	li PAC	CKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
Conductor		H-4		X		30	0	o sks	Kinds	
Fresh water	85/8		23	X		1210	1210	to surfac		rule_15,
Coal	85/8		23	X		1210	1210	to surfac		
Intermediate	100/0	777.64	1 -					Too sarrac	9 3.2.3/	
Production	4.5	1-55	10.5	Y		5850	5850	450 18ks (	Mr Jeni Caro	hou war
Tubing								Bus	11.15	500
Liners	1								- Perforations:	"-U
	1								Top	Bottom
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			·····	<del></del>	D	RILLING	PERMIT			
•	6.7	7-091-0	1/. Q Q					. April	20	1985
Permit number.	• • /	7-091-0	7400							1967
<del></del>		13	, ,		1 1				ate	
t his permit cov	ering the w	ell operate onditions	or and well contained	II IOCALI herein i	on snown t and on the	selow is evider reverse hereof	nce of permission gran  Notification must be	led to drill in accorda	nce with the po	ertinent legal re-
vo. 8) Prior to	the constru	ction of re	ads, locati	ons and	l pits for a	ny permitted w	ork, in addition, the v	vell operator or his co	ntractor shall i	notify the proper
district oil and	gas inspecto	or 24 hour	s before a	ctual pe	ermitted wo	rk has comme	enced.)			
The permitted v	work is as d	lescribed in	the Notic	e and A	Application	, plat, and rec	lamation plan, subject	to any modifications	and conditions	specified on the
reverse hereof.	٨ -	1 70	108	7						
Permit expires		pril 29	, 190			unless	well work is commence	d prior to that date an	d prosecuted wi	ith due diligence.
		<del></del>								
Bond:	Agei	nt:	Plat:	Casi	ng :	Fee				
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00,	<u> </u>	74/	IN I	117	<u> </u>	<u>U'</u>	In	4- 1	716	
						-	///Wr	garet	s Nac.	
							* Min	ministrator Office of	Oil and Gas	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

NOTE: Keep one copy of this permit posted at the drilling location.