

IV-35 (Rev 8-81) JUN 23 1984

State of Mest Nirginia

Bepartment of Mines

OIL & GAS DIVISION OIL & GAS DIVISION Bil and Gas Bivision

Date		5, 1984							
Operator's									
Well No. JK-931									
Farm William Markle									
APT NO.	47 _	095 _	1061						

WELL OPERATOR'S REPORT

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

FIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production x / Underground	nd Storage	e Disposal e/ Deep	/ o/ Sha	llow <u>x</u> /)
OCATION: Elevation: 1188 Watershed 1	Stusii Ruii		·	
District: Meade County Tyles	<u> </u>	Juagrangie	Peni	nsboro 7.5
OMPANY J&J Enterprises, Inc.				
ADDRESS P.O. Box 48, Buckhannon, WV 26201	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	DITTI	11 11011	000 000
SURFACE OWNER William B. Markle	20-16			
ADDRESS P.O. Box 24, Middlebourne, WV 26149	Cond.	32	0	0 sks.
MINERAL RIGHTS OWNER Same As surface	13-10"	32	0	U SKS.
	9 5/8			
ADDRESSROBERT	8 5/8	1400.45	1400.45	335 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Gen. Del., Middlebourne, WV	7		<u> </u>	
	5 1/2			
PERMIT ISSUED 3/23/84 5/17/84	4 1/2	5969.80	5969.80	610 sks.
DRILLING COMMENCED 5/17/84	3	1		
DRILLING COMPLETED 5/22/84	2		<u> </u>	
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners	1		
REWORKING. VERBAL PERMISSION OBTAINED	used			
ON	<u> </u>			
GFOLOGICAL TARGET FORMATION Devonian Shale			oth 5822-5	
Depth of completed well 5995 feet	Rotary_x	/ Cab	le T∞ls_	
Water strata depth: Fresh 550 feet;				
Coal seam depths: None	_	being min	ned in th	e area? No
· · · · · · · · · · · · · · · · · · ·				
OPEN FEOW DATA Producing formation Devonian Shale	D:	v zone de	oth <u>5822</u> -	-5916 feet
Gas: Initial open flow Mcf/d	Oil: Tr	itial ope	n flow	Bbl/d
				Bbl/d
Time of open flow between ini				
Static rock pressure 1400 psig(surfa				
(If applicable due to multiple completion				
(If applicable are to mattiff completion	,,, P:	av zone de	oth 4889	-91 feet
Second producing formation Renson Gas: Initial open flow Mcf/d				
Final open flowMcf/d				
Time of open flow between ini				
Static rock pressurepsig(surface				
Static rock pressurepsig(surface	- neusure			Level side

FORM IV-35 (PEVERSE)

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

Rhinksingt

Devonian Shale: 5822-26 (5 holes) 5830-35 (7 holes) 5866-69(3 holes) 5912-16(5 holes)

Fracturing: 300 sk. 20/40 sand: 115 Bbls. fluid.

<u>4889-91</u> (8 holes)

Fracturing: 350 sks. 20/40 sand:500 gal. acid: 362 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf= PweXGLS

1 $t=60 + (0.0075 \times 5970) + 459.7 = 564 \times = 53.35 \times 564 = 30115 = 0.000033 \text{ Pf} = 1400 \times 2.72^{(0.000033)}$ $(0.000033)(0.669)(5403)(0.9)_{=1400 \times 2.72} = 1400 \times 1.12$

Pf=1568 psi

WELL LOG

	W	ELL LOG	
	·		REMARKS -
TODAY TOU COLOR WARD OF COLUM	TOP FEET	BOUTOM FEET	Including indication of all fresh
FORMATION COLOR HARD OR SOFT	TOP FEET	BULLON LLEN	and salt water, coal, oil and gas
Fill & shale	0	40	
Sand & shale	40	85	Damp @ 550'
Sand & shale	85	136	Bamp 6 330
Sand, shale & red rock	136	2020	Gas ck @ 2244 No show
Big Lime	2020	2130	
Big Injun Sand & shale	2130 2200	2200 2780	Gas ck @ 2860 No show
sand & snale Sand & shale	2780	4889	
Benson	4889	4891	Gas ck @ 3108 No show
Sand & shale	4891	5822	
Devonian Shale	5822	5916	Gas ck @ 3745 No show
Sand & shale	5916	5995	
		m.n.	Gas ck @ 4340 No show
		Rhinestreet	Gas ck @ 4801 No show
			Gas ck @ 5138 35/10-1" w/water
			44,470 cu.ft.
			Gas ck @ collars 10/10-1" w/water
•			23,314 cu.ft.
			,
•			
·.			
	1		
		1	

(Attach separate sheets as necessary)

	J&J Enterprises	s, Inc.
Well	L Operator	
By: /	BL ML	
Date:	6/25/84	

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 wal, encountered in the drilling of a well." W. 0



1)	Date: MAR	CH 2]		, 19 <u>_84</u>
2)	Operator's Well No	JI	K - 931	Ì	
3)	API Well No.	47	-	095	- 1061
		State		County	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A C)il <u> </u>	/ G	asX						
	B (1	lf "Gas",				/ Underground		/ Deep	/ Shallow	<u>X</u> ^
5) LOCATIO	N: Ele	vation: _		1881		_ Watershed: _	<u>Brush run</u>			,
	Di	strict:		<u>IEADE</u>		County:	TYLER	Ouadrangle:	PENNSBOR	RO 7.5'
6) WELL OP	ERATOR		ENTER	<u>RPRIS</u>	ES, IN	1C.	7) DESIGNATE	DAGENT RICHAL		
Address	s	P.O.					Address	P.O. [
	,	BUCKH	ANNON,	WV	26201			BUCKH	ANNON, WV	26201
8) OIL & GA	S INSPEC	TOR TO	BE NOTI	FIED			9) DRILLING C			
Name		ROBER	TA. L	HTWO.	ER		Name	S.W. JACK	DRILLING (00.
Address	s	GENER	AL DEL	IVER	Υ		Address	P.O. BOX 48	3	
		MIDDL	<u>EBOURN</u>	IE. W	V 261	149		BUCKHANNON	, WV 2620	ı T
0) PROPOSE	D WELL	WORK:	Drill	X	_/ Drill	deeper	/ Redrill	/ Stimulate_5	VE OF	التالثا إلى التالا
-,				f old	formation	•	ate new formation		03) 5 (C)5	.)[\W 5]
			-			well (specify)	ate new formation			
i) GEOLOGI	ICAI. TAR	GET FOR	MATION	11) 010a1	entitinge m		MALK SHALE			
12) Estima	eted denth	of complet	ed well	, —>	•	5990 t feet	147 147 0117 166		MAR 2	. <u>3 1984 </u>
13) Appro				·	400 1		0	6		
14) Appro		-	•	N/A	100	•		feet.	OIL & GAS	s កូរបទៅចាំ
5) CASING A				- 11	· · · · · · · · · · · · · · · · · · ·	18 CO	al being mined in th	e area? Yes	FPTNO O	= 1viiN f
CASING OR	114 <i>D</i> 10 <i>D</i> 1		JRAM IFICATION	•					/ Land L.	, 27211 42
TUBING TYPE		i	Weight	1	. 1	FOOTAGE II	NTERVALS	CEMENT FILL-UP OR SACKS	PACKE	ers
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
Conductor	11 3/4 8 5/8		23	_X	├	30 '	0	0	Kinds	
resh water	0 3/0	ERW	23	Х		1300	1000	To surface	Py rule	15.05
oat									Bizes	
ntermediate	<u> </u>	<u> </u>			├ ──					
roduction	4 ½	J55_	10.	5_X_		5990 *	5940 '	425	Depths set	-
ubing	<u> </u>				L			oras	req. by	rule 15
iners									Perforations:	
		<u>, , ; , , , , , , , , , , , , , , , , ,</u>						1	Тор	Bottom
	e, e 3									
· .										
· · · · · · · · · · · · · · · · · · ·						OFFICE USE C	NLY			-
					I	DRILLING PEI	RMIT			
rmit number	47-(095-10	61					March 23	.	10.04
							· · · · · · · · · · · · · · · · · · ·	Dat		19 84
iis permit cove	ring the we	ell operato	r and well	locatio	n shown	helow is evidence o	f normingion	ed to drill in accordan		_
mementa subje	er to me ce	muicons c	CHEMINEU I	ici ciii a	na on the	reverse nereot. Not	ification must be a	iven to the District Oil	and Cas Inc.	4- 450 6 .
, o, i iivi iu u	ie comatinc	HUR UL FUI	aus, ioczu	ons and	DIUS FOR 8	nv permitted work.	In addition, the w	ell operator or his con	tractor shall not	ify the proper
strict on and ga	as mapeeto	24 Hours	before ac	tuai pe	rmitted wo	ork has commenced	.)			-
e permitted we	ork is as de	scribed in	the Notice	and A	pplication	, plat, and reclama	tion plan, subject (o any modifications ar	nd conditions sp	ecified on the
verse nereor.		h 23,								
rmit expires _						unless well	work is commenced	l prior to that date and	prosecuted with	due diligence.
		·		-						
Bond:	Agent	, F	Plat:	Casin	g	Fee				
BLANKET		1 N	2//	m.	1/1/2	195 -	. 1	_	. /	
L	/1/	- ' 	77	''//	Y 1/4	10	$\mathcal{W}_{\mathcal{L}}$	1 . 1 .	1/200	
							1 Jurga	inistrator, Office of O	JUSSE	
OTE: Keep or	ne conv of	thic name	it nostad -	t tha J	illina !	.tia=	(Adm	inistrator, Office of O	il and Gas	
Reep O	copy of	uns perm	n posteu a	i ine di	ming loca	mon.	V			
*		See 1	the reverse	side of	the APP	LICANT'S COPY	for instructions to	the well operator		File
							· · · · · · · · · · · · · · · · · · ·	we wen operator.		