

Rev 8-81)



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of Mest Birginia Department of Mines

Date	Decembe:	r 22,	1987			
Operator's						
Well	No. JK-	1311				
Farm Janice Hurst, et.al.						
API N	o. 47 –	095	1203			

. WELL OPERATOR'S REPORT

Oil and Cas Division

OF FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

(If "Gas," Production / Undergrou				11cw_xx/)
OCATION: Elevation: 1212' Watershed Big	g Run			
District: Centerville County Tyler	. \	Quadrangle	Pennsbor	o 7.5
		_		
	•		•	
OMPANY J & J Enterprises, Inc.				·
DDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	Cerrent
DESIGNATED AGENT Oliver L. Hawkins, III	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size		,	
SURFACE OWNER Thomas & Michele King	20-16 .			
ADDRESS 24601 Strington Rd., CLarksburg, WV 26301	Com. 13-10"	20.00		
MINERAL RIGHTS OWNER Janice L. Hurst, et.al.	9 5/8	32.00	pulled	
ADDRESS	8 5/8	1252 (51	1252 651	275 -1-
OIL AND GAS INSPECTOR FOR THIS WORK	7	1332.63	1352.65'	275 sks.
obert Lowther ADDRESS Gen. Del., Middlebourne, WV	5 1/2			
PERMIT ISSUED 7/23/87			5246.85'	225 sks.
DRILLING COMMENCED 10/24/87	3			
DRILLING COMPLETED 10/29/87		1		
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
CN		<u> </u>	J	
GEOLOGICAL TARGET FORMATION Alexander		Dep	th570	00' feet
Depth of campleted well 5633' feet	Rotary XX	/ Cabl	e T∞ls_	
Water strata depth: Fresh 70', 1670' feet;	Saltno	_{ne} feet		
Coal seam depths: none	Is coal	being min	ed in the	e area? no
OPEN FLOW DATA		<u>></u>		
Producing formation Benson	Pay	zone dep	th 5099/51	00 feet
Gas: Initial open flow Mcf/d				
	Fir	_		The state of the s
Time of open flow between init				
Static rock pressure 1350# psig(surfac				
(If applicable due to multiple completion				and and an
	Pay	v zone der	oth 4700/4	731 feet
Gas: Initial open flow Mcf/d		_		
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressurepsig(surface				
		,	- 1)E	C 7 Total

DEC 2 Scottinue on reverse side)

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

Riley: Perforations: 4700/4731 (14 holes)

Fracking: 350 sks. 20/40 sand: 590,000 scf N2: 530 Bbls. fluid

Benson: Perforations: 5099/5100 (8 holes)

Fracking: 450 sks. 20/40 sand: 500 gal. acid: 767 Bbls. fluid

Pf=Pwe^{XGLS}

 $t=60+(0.0075 \times 5247)+459.7 = 559$

 $x=\overline{53.35 \times 559} = \overline{29.822} = 0.0000335$

(0.0000335) (4900) (0.661) (0.9

(0.098)

 $Pf=1350 \times 2.72$

 $=1350 \times 1.1$

Pf=1485

WELL LOG

		·	
PODLAMITOR COLOR			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
			and salt water, coal, oil and
Brown Shale	0	20	
Red Shale	20	230	l" stream fresh water @70'
Red Rock & Shale	230	1880	Hole damp @1670'
Sand & Shale	1880	2075	Gas check @2037' No show
Big LIme	2075	2150	Gas check @3606' 30/10ths 2" w/w
Big Injun	2150	2260	231,000
Sand & Shale	2260	2430	
Weir	2430	2550	• • •
Sand & SHale	2550	2616	
Berea Sand & Shale	2616	2622	
Riley	2622	4695	Gas check @4620' 20/10ths 2" w/w
Sand & Shale	4695 4735	4735	189,000
Benson	4735 5095	5095	Gas check @4804' 22/10ths 2" w/w
Sand & Shale	5102	5102 ⁻ 5340	198,000
Alexander	5340	5410	Gas check @5142' 36/10ths 2" w/w
Sand & Shale	5410	5633'TD	253,000
		3033 10	Gas check @5449' 30/10ths 2" w/w 231,000
			231,000
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			DIVISION OF OIL & GAS
			DEPARTMENT OF ENERGY
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(Attach separate sheets as necessary)

J Enterprises Date: Robert Dahlin - Geologist 12/22/87

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 mail, encountered in the drilling of a mill."



1)	Date:	June 2	26	, 13 <u>.</u> 87
2)	Operator's Well No	JK-131	1	
3)	API Well No.	47	095	1203
		State	County	Dermit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION DEPARTMENT OF ENERGY

APPLICATION FOR A WELL WORK PERMIT

45	WELL TYP	VE. A O	.,	. / 6	. У	,						
4)	WELLIYP						Linderground	l storage	/ Deen	/ Shallow	Υ , Δ	
5) LOCATION		B (If "Gas", Production X N: Elevation: 12121						Big Run		_/ Shanow	/)	
s, Localio.		District: Centerville					County:	Tyler 09	Quadrangle: _	Pennsboro	ر م 7.5 ا	525
6)	WELL OPE						24150	7) DESIGNATE	EDAGENT Oliver	Lee Hawl	kins. I	ΙĮ
٠,	Address		o.O. B			75		Address	P.O. B			
	•••			nnon.	WV :	26201				nnon, WV	26201	
8)	OIL & GAS			-				9) DRILLING (3		
-,	Name			Lowth				Name				
	Address		Genera	l Deli	very			Address				
		1	Middle	bourne	, WV	26149						
10)	PROPOSE	D WELL	WORK:	Drill	Χ	_/ Drill	deeper	/ Redrill	/ Stimulate	Χ/		
,				Plug of	f old f	ormation		orate new formatio				
				Other p	hysical	change in w	ell (specify)					
11)	GEOLOGI	CAL TAR	GET FOR	MATION	,	<u> Alexand</u>	er					
	12) Estima					<u> 5700 </u>	fee	t				
	13) Approx							lt,N/A				
	14) Approx	kimate coa	l seam dep	ths:		_N/A	Is c	oal being mined in t	he area? Yes	/ No_	_X	_/
15)	CASING A	ND TUBI	NG PRO	GRAM						:		
	ASING OR		SPEC	IFICATION:	6	1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACI	KERS	
TU	JBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)			
Con	ductor	11 3/4	H-40	42	Χ_		30'	0'	0 Sacks	Kinds		
Fres	h water	8.5/8	ERW	23	X_		1362'	1362'	To surface b	y Rule l	5.05	:
Coa	l	8 5/8	ERW	23	X		1362'	1362'	<u>To surface b</u>	ysiRule 1	5,05	
Inte	rmediate				ļ							
Proc	duction	41/2	J-55	10.5	<u> X </u>		5700 '	5600'	300 Sacks	Depths set		
Tub	ing					ļ			or as requi	red by R	<u>ule 15.0</u>	<u>)]</u>
Line	3			ļ						Perforations:		
										Тор	Bottom	
				 	<u> </u>	 -				 		
			L	1	ļ. <u>,</u>	<u> </u>				<u> </u>		
											i	
						01	FFICE USE	ONLV				!!
							RILLING P		***************************************		-	_
		47-	095-12	03		<i>D</i> ,	MILLING I		Ju 1	y 23		87
Peri	mit number_									-	19	
									Dat			
This	s permit cove	ring the w	ell operati	or and wel	l location :	on shown be and on the re	elow is evidence everse hereofai	e of permission gran	nted to drill in accordan	ce with the pe	rtinent legal	re-
lo. E	B) Prior to the	construct	ion of ros	ds, locatio	ns and	pits for any	permitted worl	In addition, the	given to the District Oil well operator or his con	tractor shall n	otify the pro	o per
dist	rict oil and ga	as inspecto	or 24 hour	s before a	ctual pe	rmitted wor	k has commend	ced.)				
		ork is as d	escribed in	the Notic	e and A	application,	plat, and reclar	mation plan, subject	t to any modifications a	nd conditions	specified on	the
	rse hereof.	Jul	y 23,	1989				-11a.ılı ia a.a.ı.	. 4		o. a . am	
Peri	mit expires					~·····	uniess we	ell work is commend	ed prior to that date and	prosecutea wit	n due diligen	ce.
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<u></u>		 	- A	g(C)		- WH	/ 1/	1/1	//// ///			
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NO	TE: Keep or	ne copy of	this perm	nit posted	at the d	rilling locati	ion.	Director, Di	vision of Oil	and Gas		
				41		f the Appr			<i>A</i> /		Fi	e
			ممنا	The revers	e side d	TIRE APPL	ILANI'S COP	- x .MOF INSTRUCTION©↑	o the well operator.			