

IV-35 (Rev 8-81)



Oil and Gas Division

Date December 21, 1	L987						
Operator's							
Well No. JK-1296							
Farn Garner	. 55.						
API No. 47 -095	- 1199						

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

. WELL OPERATOR'S REPORT

Stude of Mest Wirginiu

Department of Alines

DRILLING, FRACTURING AND/OR STUJULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas XX / Liquid Injection (If "Gas," Production / Undergrou	/ Wast nd Storag	e Disposal e/ Deep	L/ D/ Sha	11 <u>ow_xx</u> /)
LOCATION: Elevation: 1028' Watershed Sho	rt Run			
District: Centerville County Tyler		Quadrangle	Pennsbor	0
COMPANY J & J Enterprises, Inc.		-		· · · · · · · · · · · · · · · · · · ·
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Oliver L. Hawkins, III	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size			
SURFACE CWNER Edward Garner	20-16 Cond.		·	
ADDRESS Rt.1, Box 70, Greenwood, WV 26360	13-10"	32.00	pulled	0
MINERAL RIGHTS OWNER Same as surface	9 5/8	32.00	Pulled	
ADDRESS		1266.30'	1266.30'	245 sks
OIL AND GAS INSPECTOR FOR THIS WORK	8 5/8	12200.00	1200.30	243 383
Robert Lowther ADDRESS Gen.Del., Middlebourne, WV	7			
PERMIT ISSUED 4/24/87 26149	5 1/2			
DRILLING COMMENCED 10/30/87	4 1/2		5279.70'	285 sks
DRILLING COMPLETED 11/3/87	3	- ·		
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		ļ	
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED	used.			1
CN	<u> </u>			
GEOLOGICAL TARGET FORMATION Alexander	Non-the-land and the second and the	Dep	th 5600'	feet
Depth of campleted well 5514' feet 1	Rotary_x_	/ Cabl	e T∞ls_	
Water strata depth: Fresh 139', 144feet;	Salt no	one feet	. ,	
Coal seam depths: 176/179	Is coal	being min	ed in the	e area? no
corst Flort folia		Ţ		•
OPEN FLOW DATA		,	4881	
Producing formation Benson, Alexander				
Gas: Initial open flow Ncf/d				
CommingledFinal open flow 1,100 rcf/d				
Time of open flow between init	ial and f	inal tests	bo	ours .
Static rock pressure 1400# psig(surfac	e neasure	ment) afte	r 96 hou	urs slut ii
(If applicable due to multiple completion	J			
Second producing formation Riley	Pa	y zone dep	oth 4483/4	15i3 feel
Gas: Initial open flow 1cf/d	Oil: In	itial oper	ı flow_	Bb1/c
Final open flow Mcf/d	Oil: Fi	nal open f	Elow_	Bb1/c
Time of open flow between init				
Static rock pressure 1400# psig(surface				
		(Conti	true on r	DEC 28 le everse side

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

Riley: Perforations: 4483/4513 (15 holes)

Fracking: 500 sks. 20/40 sand: 640 mscf N2: 767 bbls. fluid

Benson & Alexander: Perforations: 4481 - 5166/5174 (13 holes) Fracking: 500 sks. 20/40 sand: 567 bbls. fluid

Pf = PweXGLS

 $t=60 + (0.0075 \times 5280) + 459.7 = 559$

 $x=53.35 \times 559 = 29,822 = 0.0000335$

Pf=1400 x 2.72 (0.0000335) (0.661) (4828) (0.9)

Pf=1400 x 2.72^(0.096) = 1400 x 1.10

Pf=1540

WELL LOG

P1-1340			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
			and salt water, coal, oil and
Clay Fill	0	15	
Sand & Shale	15	139	l" stream fresh water @139'
Shale & Red Rock	139	176	•
Coal	176	179	
Sand & Shale	179	1865	Hole Damp @1440'
Big Lime	1865	1955	-
Big Injun	1955	2080	· 7
Sand & Shale	2080	2230	Gas check @2153 40/10ths 1" w/w
Weir	22 30	2345	.,
Sand & Shale	2345	2410	• • · · · · · · · · · · · · · · · · · ·
Berea	2410	2416	ve a
Sand & Shale	2416	4475	Gas check @3418 6/10ths 2" w/w
Riley	4475	4520	,
Sand & Shale	4520	4875 -	Gas check @4623 4/10ths 2" w/w
Benson	4875	4883	1, 10 0110 1, 10 0110 1
Sand & Shale	4883	5120	Gas check @4960 4/10ths 2" w/w
✓Alexander	5120	5192	2 w, w
Sand & Shale	5192	5514' TD	Gas check @Drill Collars
•			4/10ths 2" w/w
			-,
€ Company			
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			DEC 23 1987
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	'		DIVISION OF OIL & GAS
			DEPARTMENT OF ENERGY
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$v = \frac{1}{2} (S + X + X)^{\frac{1}{2}}$			in the first of the second of
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(Attach separate sheets as necessary)

J & J Enterprises, Inc.

. Well Operator

By:

Date: 12/21/87 Robert Dahlin - Geologist

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 invil, uncountered in the drilling of a well."

FGRM WW-2(B) FIF CONV (Obv B3 89) 7/85 APR 08 1987



1) Date:	April '	7	19 87
2) Operator's Well No	2490		
3) API Well	No. 47	095	1189
	State	County	Permit

DIVISION OF OIL & GAS

DEPARTMENT OF ENERGY DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4)	WELL TY	DE. A	0:1	, ,	3	τ.							
٠,	WELLII			, Production			,	11md					37
١	LOCATIO		Elevation:	-	1028	}		Watershed	Short	Dun	/ Deep	_/ Shallow	_X/)
	LOCATIO			Cente			<u> </u>				5 Quadrangle: I) a m m = 1 = =	7 518
	WELLOP							50550	7) DESIGN	NATE	DAGENT Joser	b C D	<u>7.513</u> ;
	Address	Po	st Of	fice	Drav	ier /	10	20220	, i) Desigi Addi		Dact Offi	D. D. D.	ettey 40
				non.					Addi	i ć29	Post Offic		
	OIL & GA					4.07.4.1	<i></i>		0) DBILL	INC C	Buckhannor	L, W.V.	<u> </u>
	Name								•		ONTRACTOR:		-
	Address			1 Del						ress	Union Dr	illing,	,_Inc.
	7144165			bourn					Addi	1688			
	PROPOSE					_/ Dril					Buckhann		26201
	FROFUSE	.D WELI	L WORK:	-							/ Stimulate_X		
									orate new for				
	GEOLOGI	: CALTA	DOET FO										
	12) Estima												
								fee					
	13) Appro								lt,				
	CASING A						···········	Is c	oal being mine	d in the	e area? Yes	/ No_	
		וועם ויטו									_	* .	
	ING OR ING TYPE		1	CIFICATION Weight		•		FOOTAGE	INTERVALS		OR SACKS	PAC	KERS
_		Size	Grade	per ft.		Used	₩	For drilling	Left in 1	well	(Cubic feet)		
-	ıctor	11 2	/ H-40) 32	X	 	 	30	30			Kinds	
_	water	 			ļ	 	∦			`	<u> </u>		
		0 7	0	 	V	 	∦	770	1770			Sizes	1
_	nediate	0 3/	8 ERW	23	X	}	ш	L330	1330		to surface	Per Ru	1/2 15.05
	ction	4 1/	2 J-55	10.5	_X_	 	1	5600	5600		as required		
n				 	 	<u> </u>	₩				BY RULE 15.	010125	60 SKS.
S			-		ļ	ļ	 		_			Perforations:	
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-		L		1	<u> </u>	i	<u>II</u>						
_													
							OF	FICE USE	ONLY			-	
							DR	ILLING PI	ERMIT				
ľ	it number	47-0	95-118	9							April 24	•	19 87
							•				Dat		
1	permit cover	ring the	well operat	or and wel	l locatio	n showi	n belo	ow is evidence	of permission	grante	d to drill in accordan	ce with the ne	rtinent legal re
1	nents subje	ct to the	conditions	contained	herein a	nd on th	ne rev	erse hereof No	tification mus	t be giv	en to the District Oil : ell operator or his con	and Gas Inspe	ctor (Pefer to
,	Prior to the	constru	ction of ro	ads, locatio	ns and	pits for a	any p	ermitted work has commenc	In addition,	, the w	ell operator or his con	tractor shall no	otify the proper
									•				
9	ermittea wo e hereof.	ork is as o	described i	n the Notic	e and A	pplication	on, pl	at, and reclan	nation plan, su	ibject to	o any modifications as	nd conditions	specified on the
	t expires _	Apri	1 24,	1989				unless wa	Il work is some				
•	- enpires							unicss we	ii woik is comn	nenced	prior to that date and	prosecuted wit	n due diligence.
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30	ond:	Agen	ţ:]	Plat:	Gast	ng	Fee		SAE	7	Other		
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1	- Keen or	ie convic	of this nar-	nit posted :	at the d	rilling la	ontic:				The state	<u> </u>	
TI	E: Keep or	пе сору с	of this pern	nit posted a	at the di	rilling lo	catio	n. D	irector,	Div	ision of Oil	and Gas	271

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