



IV-35 (Rev 8-81)

DECEIVED State of Mest Airginia

Bepartment of Mines Gil and Gas Bivision

Date 5/20/87									
Operat	or's								
Well N	0.		JK-12	46					
Farm	Do	tso	'n.						
API No	47	_	017	·	3493				

DIVISION OF OIL & GAS WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 896 Watershed_	· ·Yeager Run			· · · · · · · · · · · · · · · · · · ·
District: Central County Doc	ldridge	Quadrangle	Pennsbo	oro 7.5
(1997) (현실 1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1 1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995) (1995)				
OMPANY J&J Enterprises, Inc.		<u> </u>		Cement
ADDRESS P.O. Box 48 Buckhannon, WV 26201	Casing	Used in	Ieft	fill up
DESIGNATED AGENT Oliver L. Hawkins III	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 48 Buckhannon, WV 26201	Size			
SURFACE OWNER Roger Dotson	20-16 Cond.	. 16	0	0
ADDRESS Tollgate, WV 26442	13-10"	163	163	125 sks.
MINERAL RIGHTS OWNER Same as surface	9 5/8			
ADDRESS .	8 5/8	1414	1414	125 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Mike	7			
Underwood ADDRESS Rt. # 2, Box 114 Salem, WV 26426	5 1/2			
PERMIT ISSUED 1/10/86	4 1/2	5155.8	5155.8	280 sks.
DRILLING COMMENCED 1/21/87	3			
DRILLING COMPLETED 1/27/87	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners		<del> </del>	-
CN	usea.			
COLONIA TARCET FORMATION Rhine Str	eet	Det	oth	feet
Depth of completed well 5213 feet		· · · · · · · · · · · · · · · · · · ·		
Water strata depth: Fresh 30,250 feet	To ma	d being mi	10 miles 10	ne area? No
Coal seam depths: None	15 000	d being nu	na m. a	c u.u.
OPEN FLOW DATA				N10 10 .
	P	ay zone de	pth 50	13-18 feet
Producing formation Alexander			n flow	Bbl/d
Producing formation Alexander  Gas: Initial open flow Mcf/e	d Oil: I	Initial ope	· · · · · · · · · · · · · · · · · · ·	
Gas: Initial open flowMcf/c				Bb1/c
Gas: Initial open flowMcf/c	d F	Final open	flow	Bb1/c
Gas: Initial open flow Mcf/c Final open flow 628 Mcf/c Time of open flow between i	d F nitial and	Final open final test	flow	Bb1/d
Gas: Initial open flow Mcf/c Final open flow 628 Mcf/c	d F nitial and face measur	Final open final test	flows_4_l rer_96_h	Bbl/o nours ours shut i
Gas: Initial open flow Mcf/c  Final open flow 628 Mcf/c  Time of open flow between i  Static rock pressure 1400 psig(sur  (If applicable due to multiple complete	d F nitial and face measur tion)	Final open final test rement) aft	flows4 ler96 her4727-	Bbl/d nours ours shut in
Gas: Initial open flow Mcf/c  Final open flow 628 Mcf/c  Time of open flow between i  Static rock pressure 1400 psig(sur  (If applicable due to multiple complete  Second producing formation Benson & Re	d Finitial and face measuration)	Final open final test rement) aft Pay zone de	flow	Bbl/cours  cours shut in  -30  -58 fee
Gas: Initial open flow Mcf/c  Final open flow 628 Mcf/c  Time of open flow between i  Static rock pressure 1400 psig(sur  (If applicable due to multiple complete  Second producing formation Benson & Ri  Gas: Initial open flow Mcf/	nitial and face measuration) iley 1 /d Oil:	Final open final test rement) aft Pay zone de Initial ope	flows4 leer_96 her_4727-4236-en_flow	Bbl/cours cours shut in -30 -58 fee Bbl/
Gas: Initial open flow Mcf/c  Final open flow 628 Mcf/c  Time of open flow between i  Static rock pressure 1400 psig(sur  (If applicable due to multiple complete  Second producing formation Benson & Ri	nitial and face measur fion) filey  d Oil:	Final open final test rement) aft Pay zone de Initial open	flow	Bbl/cours cours shut in -30 -58 fee Bbl/ Bbl/

(PEVERSE)

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

Alexander: Perforations: 5013-18 (15 holes) Foam frac.

Benson: Perforations: 4727-30 (15 holes)

Fracturing: 300 sks. 20/40 sand:500 gal. acid: 400 Bbls. fluid.

Riley: Perforations: 4236-4358 (13 hoels)

Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 530 Bbls. fluid.

Bottom Hole Pressure Pf=PweXGLS  $t=60 + (0.0075 \times 5156) + 459.7 = 558 \times 558 \times 558 = 29789 = 0.000034 \text{ Pf} = 1400 \times 2.72^{(0.000034)}$  $(0.661)(4627)(0.9) = 1400 \times 2.72^{0.094} = 1400 \times 1.1$ 

Pf= 1540 psi	W	ELL LOG	
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and coals
Ground Level	0	10	de det valet, con, oil an c
Soil, sand & shale	10	50	1"\ stream @ 30'
Sand, shale & red rock	50	250	
Sand, shale & red rock	250	985	½"-½" stream @ 250'
Sand & shale	985	1280	
Sand & shale	1280	1705	½" stream @ 1350'
Sand & shale	1705	1740	
Big Lime & Injun	1740	1880	Gas ck @ 1767 No show
Sand & shale	1880	2345	×
Sand & shale	2345	3182 `	Gas ck @ 2082 No show
Warren sand	3182	4236	
Riley	4236	4358	Gas ck @ 2905 No show
Sand & shale	4358	4727	
Benson	4727	4730	Gas ck @ 3284 No show
Sand & shale	4730	5013	
Alexander	5013	5018	Gas ck @ 4076 2/10-1" w/water
Sand-& shale	5018	5213	60,000 cu.ft.
		TD	,
•			Gas ck 4391 4/10-1" w/water 84,000 cu.ft.
			Gas ck @ 4769 4/10-1" w/water 84,000 cu.ft.
			Gas ck @ 5055 6/10-1" w/water 103,000 cu.ft.
			CALL STATE OF THE
· · · · · · · · · · · · · · · · · · ·			MAY 2 6 198/
·			DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
			DELUCTION CHEMO!
•	-		

(Attach separate sheets as necessary)

J & J Enterprises, Inc. Robert Dahlin Geologist

Note: Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic idetailed geological record of all formations, including that!, encountered in the drilling of a well."

## FORM WW-2(B) (Obverse) FILE COPY

7/85



• •	Date:	)ecem	ber	13	_	12.85		
1,	Daic				,,,,			
2)	Operator's	עו	1046	•				

47 -017-3493 3) API Well No.

County

Permit

STATE OF WEST VIRGINIA

77	DEC 3	3 195	DEPA	RTME	NT OF	ENERGY, OIL	AND GAS DIVIS	SION		
ran/	SION O	FOIL &	GAS	APP	LICATI	ON FOR A WELL	WORK PERMIT			
DEDA	RTMEN	T OF EN	15KG1	.,	_					er e
WELL TYPE	. A OII			—Х,				_/ Deep/	Shallow	<b>Y</b> /)
	B (If	"Gas", Pr	oduction		<u> </u>	/ Underground st	Voagon Dun		Shanow _	·
LOCATION	Eleva	ation:	896'			_ Watershed:	Yeager Run		Pennshara	7.51
		ict:	Centra	<u> </u>	427	_ County:	ogariage	Quadrangle:	ed M Dod	docliff
WELL OPE	RATOR_	J&J	nterp	rises	,com	E: <u>24150</u>	7) DESIGNATED	AGENT Richa	TO M. REU	meciti
Address		P.0.	Box 4	<u>8</u>			Address	Palla	DUX 40	
Madiess		Buck	nannon	. WV	262				annon, WV	20201
OIL & GAS	INSPECT						9) DRILLING CO			
	Mike	Under	wood				Name	S.W. Jack Dr	illing Co	<del>)</del>
Name		2 Box					Addr <b>e</b> ss	P.O. Box 48		
Address	<u> </u>	em. WV	2642	6				Buckhannon,	WV 26201	
					/ D-:11	deeper	/ Redrill	/ Stimulate	<b>X</b> /	
PROPOSEI	WELL V	VORK:	Drill	<u> </u>	ווחט /	/ Perfor	ate new formation		,,	
			Plug off	old to	ormation	Perior	ate new formation			
			Other ph	ysical	hange II	well (specify)				
GEOLOGIC	CAL TARO	GET FORM	MATION,	Kn	ine_5	treet 437				
12) Estima	ed depth o	f complete	ed weli, _		3333	1661	AL / A	feet.		
13) Approx	cimate trata	a depths:	Fresh,		751		1		/ No	<b>X</b> ,
14) Approx					<u> N/A</u>	Is co	oal being mined in th	e area? Yes	/ No	
CASING A	ND TUBI	NG PROC	GRAM						u	
ASING OR	<b>H</b> .		IFICATIONS			FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	PACK	.E.KS
BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
	11 3/4		42	Y		150 20	150'gr	O Sacks C	/Kinds P	yrule,
ductor			23	V		1496'	1496'	To Surface	by eul	<u>E 15.0</u>
h water	8 5/8		23	X	t —	1496'	1496'	To Surface	Sizes	
<u> </u>	8 5/8	ERW	23	-^-	<del> </del>	1750				
rmediate	<del> </del>	1 5 55	10 -	X	<del> </del>	5995'	5945'	300 Sacks	Depths set	
duction	41/2	J-55	10.5	<b>├</b> ^	$\vdash$	3995	1 3343	or as requi	red by r	ule 15-0
ing	ļ	ļ	ļ		<del> </del>	<del> </del>			Perforations:	
د. ه	<b></b>	<u> </u>	<b></b>		<del> </del> -	<u> </u>			Тор	Bottom
				<u> </u>	<b>↓</b>					
-				ļ		<b>_</b>				
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										<del></del>
						OFFICE USE				
						DRILLING P	ERMIT			
								Ja	anuary 1	LO 19 86
rmit number.	47-	<u>017-3</u>	493						ate	
							fiion ere	nted to drill in accorda	nce with the p	ertinent legal 1
is permit co	vering the	well opera	tor and w	ll loca	tion show	wn below is evidence	e of permission gra	nted to drill in accorda given to the District Oi well operator or his co	l and Gas Insp	ector. (Refer t
irements sub	ject to the	conditions	contained	i nerein	d site fo	r any nermitted was	In addition, the	well operator or his co	ntractor shall r	notify the prop
. 8) Prior to t	he constru	ction of re tor 24 hou	rs before	actual j	ermitte	work has commen	nced.)			
strict on and	gas mapee				Ammliaa	tion plat and recla	mation plan, subje	ct to any modifications	and conditions	specified on t
ne permitted	work is as	described	in the Not	ice and	Applica					
verse hereof.	.Tan	uary	10, ]	988		unless v	vell work is commen	ced prior to that date an	d prosecuted w	ith due diligen
ermit expires	oan	uury	<u> </u>							
				<u> </u>						
Bond:	Ager	it:	Plat:	Cas	sing	Fee WPC	P S&E	Other		
bond.	1.50	7	1/1	1	~~ 1	2116 1 1	15 1 215			
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•							//-//	4/1/	-	
						_	~ Dhal	LA Hant for	2	<del></del>
NOTE: Keep	one copy	of this pe	rmit poste	d at the	drilling	location.	Director	ivision of Oi	L and Gas	Fil
1		•					<i>7</i>			