



V-35 ev 8-81)

ELL TYPE:



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Oil

Stute of Mest Wirginin Department of Alines Oil und Gas Bivision

Date	Decem	ber 22, 1987
Opera	ator's	5
Well	No.	JK-1280
Farm	S.M.	Doak
API N	ю. 47	- ₀₉₅ - <u>1177</u>

. WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Oil / Gas_{xx} / Liquid Injection / Waste Disposal / (If "Gas," Production / Underground Storage / Deep / Shallow xx/)

OCATION: Elevation: 1045' Watershed Sh	ort Run	·		
District: Centerville County Tyler		Quadrangle	West Un	ion 7.5
OMPANY J&JEnterprises, Inc.		•		1
DDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	Cement fill up
ESIGNATED AGENT Oliver L. Hawkins, III	Tubing	Drilling	in Well	Cu. ft.
DDRESS P.O. Box 48, Buckhannon, WV 26201	Size			
URFACE CANER Lawrence & Thelma James	20-16 Comb			• •
DDRESS Box 104, Greenwood, WV 26360	13-10"	32.00.	pulled	
UNERAL RIGHTS OWNERS.M. Doak Hrs. et.al.	9 5/8			
DDRESS	8 5/8	1265.85'	1265.85'	255 sks
OIL AND GAS INSPECTOR FOR THIS WORK	7			
Robert Lowther ADDRESS Gen. Del., Middlebourne, WV	5 1/2			
PERMIT ISSUED 3/25/87			5384.10'	285 sks
DRILLING COMMENCED 11/5/87	3		3304.10	203 585
DRILLING COMPLETED 11/9/87				
IF APPLICABLE: PLACETING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED IN	used -			
	<u> </u>			
GEOLOGICAL TARGET FORMATION Alexander		Dep		o' feet
Depth of campleted well 5517' feet I				
Water strata depth: Fresh 990'. 152\text;	*	····		
Coal seam depths: 420/424	Is coal	being min	ed in the	e area? no
open flow data		*		
Producing formation Alexander	Pa	y zone dep	th . 5246/5	250 feet
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	Bbl/d
Commingled Final open flow (1,100) Mcf/d		nal open f		
Time of open flow between init		=		
Static rock pressure 1650# psig(surface				
(If applicable due to multiple completion		icity and		
Second producing formation Benson, Riley		y zone dep	4953/4	
Gas: Initial open flow Mcf/d Final open flow Mcf/d			*	
-		nal open i	***********	Bb1/c
Time of open flow between init				
Static rock pressure 1650# psig(surface	measurer	ent) atter	r 96 ho	urs shut in
		Conti	irue on r	Ff. 2. 8 1987 everse sid

(ICTARIOF)

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

Riley: Perforations: 4542/4573 (14 holes)

500 sks. 20/40 sand: 700 mscf N2: 895 Bbls. fluid

Benson: Perforations: 4953/4954 (8 holes)

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

Alexander: Perforations: 5246/5250 (12 holes)

Fracking: 400 sks. 20/40 sand: 500 gal. acid: 475 Bbls fluid

Pf=Pwe^{xGLS}

 $Pf=1650 \times 2.72 (0.103) = 1650 \times 1.1$

Pf = 1815

 $t=60+(0.0075 \times 5384) + 459.7 = 560$

1 $x = \overline{53.35 \times 560} = \overline{29,876} = 0.0000334$

Pf = $1650 \times 2.72^{(0.0000334)(4896)(0.701)(0.9)}$ WEIL IOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
			and salt water, coal, oil and q
Clay & Fill	0	10	
Shale & Clay	10	25	
Sand & Shale	25	40	
Red Rock & Shale	40	420	
Coal	420	424	
Red Rock & Shale	424	955	
Sand	955	1020	Hole damp @990'
Sand & Shale	1020	1920	Hole damp @1525'
Big Lime	1920	1976	Gas check @1844' no show
Big Injun	1976	2108	Gas check @2100' 2/10ths 7" w/w
Sand & Shale	2108	2270	450,000
Weir	2270	2385	
Sand & Shale	2385	2460	Gas check @2430' 2/10ths 7" w/w
Berea	2460	2464 -	450,000
Sand & Shale	2464	4536	Gas check @2523' 2/10ths 7" w/w
Riley	4536	4576	450,000
Sand & Shale	4576	4945	Gas check @3509' 85/10ths 2" w/w
Benson	4945	4960	389,000
Sand & SHale	4960	5200	Gas check @4650' 2/10ths 7" w/w
✓Alexander	5200	5270	450,000
Sand & Shale	5270	5517' TI	Gas check @5052' 4/10ths 7" w/w 900,000
			Gas check @5362' 140/10ths 2" w/w 508,000
	· ·		Gas check @drill collars 52/10ths
			2" w/w 304,000
		·	
			DEC 2.3 1987
			DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
• • • • • • • • • • • • • • • • • • •	1	ł i	

(Attach separate sheets as necessary)

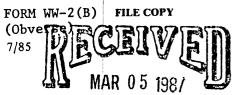
J & J Enterprises, Inc.

Well Operator

Date: Robert Dahlin - Geologist

12/22/87

Regulation 2.02(i) provides as follows: Note: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including 1241. ancountered in the drilling of a wall



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



1) Date:	February	26	, 19 <u>87</u>
2) Operator's Well No.		1	
3) API Well	49	095	1177
<i>3, 111 11011</i>	State	County	Permit

STATE OF WEST VIRGINIA

	DIVISI DEPART	ON OF (OIL & G	AS ^{DEP} RGY	ARTM <u>A</u> F	ENT O	F ENERGY, OIL FION FOR A WELL	AND GAS DIVI . work permit	SION			
4)	WELL TYP	E. A Oi	1	/ Ga	sX_				•			
•		B (If	"Gas". P	roduction	_X_		/ Underground st	orage	/ Deep	/ Shallo	w _X/)
6)	LOCATION	J. Flex	vation:	1045			Watershed:	Short Run	1 _			_
2)	LOCATIO	Die	rict: C	enter	vill	le /	County:		Quadrangle: _V	lest U	nion 7.	5'670
	WELL ODE	DATOR	Inion	Dri1	line	COL	E: 50550) DESIGNATED	AGENT Joseph	С. Р	ettev	
6)		KAIUK	Post	Offic	e Di	- vor	40	Address	Post Office	Draw	er 40	
	Address		Buckh					7144.000	Buckhannon	-	26201	
		-				4\) DRILLING CO				
8)	OIL & GAS	INSPECT	FOR TO E	BE NOTIF	TED			•	Union Dril	ling.	Inc.	
	Name	KOI	<u>bert</u>	romru	er_			Name	Post Offic	e Drai	wer 40	
	Address		<u>neral</u>				1140	Address	Buckhannor			
		<u>M10</u>	dd1eb								20202	
10)	PROPOSE	D WELL V	VORK:	Drill					/ Stimulate			
•				Plug of	f old f	ormatio	n/ Perfora	ite new formation	/			
		i		Other p	hysical	change i	n well (specify)				i	
11)	GEOLOGIC	CAL TAR	GET FOR	MATION	<i>I</i>	lexa	ınder				 	
••,	12) Estima	ted denth o	of complete	ed well.		5400	feet					
	12) Approx	rimate trat	a denths:	Fresh			feet; salt,		feet.			
	14) Approx								area? Yes	/ No	o	/
											1	
15)	CASING A	MD I ORI			Pe	1175	pectors re	-quest	1 CEMENT FILL-UP	i »	ACKERS	
	SING OR		SPEC	IFICATIONS	3		FOOTAGE II	, –	OR SACKS	•	CREAS	
	BING TITE	Size	Grade	per ft.	New	Used	For drilling .	Left in well	(Cubic feet)		! 	
Con	ductor	11 3/4	H-40	42	Χ		20	20	1	Kinds		
Fres	h water							`		ļ	<u> </u>	
Coal						İ				_Sizes V	71	
	mediate	8 5/8	ERW	23	χ		1350 1250	13501250	to surface	ev A	(ne 1)	<u> 2.0</u> S
	luction		J-55	10.5	χ		5400	5400	as required	Depths set	<u> </u>	
		4 1/2	<u> </u>	11/4		1	13400		Bu Kulc 15	5.01	or540	SKS
Tubi				 		1			1127	Perforations	1	
Line	rs			 		 				Тор	Bottom	
		 		 	 	 -	 					
		 		<u> </u>	ļ	<u> </u>	<u> </u>					
		<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>	!	<u> </u>	_H	<u> </u>	1	•
		:									i	
		!										
							OFFICE USE (!	
							DRILLING PE	RMIT			i	
			47-095	5-1177					March	25	19	87
Per	mit number_						_	-	Da			
												-1
Thi	s permit cove	ring the w	ell operate	or and we	ll locati	on show	n below is evidence	of permission gran	ted to drill in accorda	ice with the	pertinent leg	al re-
qui	rements subje	ect to the c	onditions	contained	herein	and on t	he reverse hereof Not	lification must be g	iven to the District Oil well operator or his co	and Gas In	spector, (Refe	er to roper
۱o. ا	B) Prior to th	e construc	tion of ros	ids, locati	ons and	pits for	work has commence	d.)	wen operator of mis co.			
										ماداله سمد الس	ne enecified o	n the
The	permitted w	ork is as d	escribed in	the Noti	ce and .	Applicati	ion, plat, and reclam	ation plan, subject	to any modifications a	ina conaitic	ons specified c	n the
reve	erse hereof.		Vonel	h 25,	1020						مناناه مسام مادنيي	ence :
Per	mit expires _		marci	1 23,	1,0,		unless well	l work is commence	d prior to that date and	prosecuted	with due ding	gence.
Γ	T		/		0.4		Ess mos	C.E.	Other		•	
	Bondr	Agent	' '	LK:	CPX	ng	Fee TPCP	1995	Offilet		İ	
	/				(ノト	3381 1					
L							181		1			
		İ					' (12	Lunsto	\sim		