



Rev 8-81)

OCT 0 4 1985

Sinte of Mest Wirginia

Bepartment of Mines Bil und Gas Bivision

Date October 3, 198 Operator's	5
Operator's Well No. J -1221	
Farm Mable Boyles	
API No. 47 - 091 -	

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

CATION: Elevation: 1510 Watershed_	Swamp Ko			
District: Knottsville County Tayl	or	Quadrangle	<u>Thornto</u>	T
OMPANY J&J Enterprises, Inc.	·		_	Cement
DDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	1	fill up
FSIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	Cu. ft.
DDRESS P.O. Box 48, Buckhannon, WV 26201	Size			
URFACE OWNER Mabel Boyles and others	20-16 Cond.			
DDRESS Thornton, WV 26440	13-10"	30	0	0
INERAL RIGHTS OWNER Same as surface	9 5/8			
ADDRESS	8 5/8	966.25	966.25	265 sks
DIL AND GAS INSPECTOR FOR THIS WORK Donald	7			
2604 Crab Apple Lane ADDRESS Fairmont, WV 26554	5 1/2			
PERMIT ISSUED 6/3/85	4 1/2	5123.15	5123.15	410 sk
DRILLING COMMENCED 7/22/85	3			
DRILLING COMPLETED 7/22/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used		-	
GEOLOGICAL TARGET FORMATION Haverty		De	pth 5450-	-5500 fe
porth of completed well 5750 feet	Rotary	x / Cab	le Tools_	
Water strata depth: Fresh 70,250, feet;	Salt	0 fee	t	
Coal seam depths: 47-48	Is coa	 l being mi	ned in th	e area?
war seam depuis.				
OPEN FLOW DATA	**	de	nth -	.
Producing formation 4th ELk		ay zone de	pui <u>495</u>	1-5020 Pb1
Gas: Initial open flow Mcf/d	Oll: 1	nitiai ope	fla:	Bh1
Combined Final open flow 231 Mcf/d		mar open	110w	~ **
Time of open flow between ini	tial am	Imai test	<u> </u>	~~~~ chit
Static rock pressure 1200 psig(surfa		cement) an	<u>96</u> 18 (4716-	NITS SIME
(If applicable due to multiple completion	on) 2 r	nd Riley,	3916-	·32
Second producing formation 3rd. ELk	,lst &	Pay zone d	epu <u>13786-</u>	89 I
Gas: Initial open rickrelyd	<u> </u>		-	
Final open flow Mcf/d	Oil:	Final open	11CW	final Co.
Time of open flow between in				1

FORM IV-35 (PEVERSE)

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

4th ELk: Perforations: 4951-53 (8 holes) 5013-13.5 (3 holes) 5019-20(4 holes) Fracturing: 300 sks. 20/40 sand: 511 Bbls. fluid. Foam frac.

3rd. ELk: Perforations: 4716-20 (12 holes)

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8

Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 509 Bbls. fluid.

lst. Riley: Perforations: 3916-18 (7 holes) 3930-32 (7 holes)

Fracturing: 275 sks. 20/40 sand: 500 gal. acid: 433 Bbls. fluid.

2nd Riley: PErforations: 3786-89 (12 holes)

Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 431 Bbls. fluid.

BOTTOM HOLE PRESSURE $pf=pwe^{XGLS}$ 1 1 1 = 0.000034 $pf=1200 \times 2.72^{(0.000034)}$ t=60 + (0.0075 x 5123) + 459.7 = 558 $x=53.35 \times 558$ =29776 =0.000034 $pf=1200 \times 2.72^{(0.000034)}$ (0.620) (4400) (0.9) =1200 x 2.72 0.08 = 1200 x 1.08

Pf= 1296 psi

WELL IOG

4ED CONTROL OF THE STATE OF THE		T	REMARKS			
ביים מיים עו מיים או ביים ביים ביים ביים ביים ביים ביים ביי	TOP FEET	BOWN FEET	Including indication of all fresh			
FORMATION COLOR HARD OR SOFT	TOP FEEL	DILL.	and salt water, coal, oil and gas_			
K.B. & Ground Level	0	10				
Sand	10	47	½" strema @ 70'			
Coal	47	48	½" stream @ 250'			
Sand & shale	48	290	2 33333			
	290	650	l" stream @ 465'			
Sand, shale & white sand Sand, shale & red rock	650	910	1 Stream e 405			
Sand, shale & red rock Sand & shale	910	1145	Gas ck @ 1386 40/10-5" w/water			
	1145	1350	400,000 cu.ft.			
Big LIme & INjun	1350	1410	100,000 001111			
Shale & red rock	ii a	2085	Gas ck @ 1514 40/10-12" w/water			
Sand	1410	8	400,000 cu.ft.			
Sand, shale & red rock	2085	2395	400,000			
Sand & shale	2395	2940	Gas ck @ 2305 40/10-2" w/water			
Sand & shale	2940	3010	Gas ck @ 2305 40/10-3 w/water 400,000 cu.ft.			
Sand & shale	.3010	3786	400,000 Gu.IC.			
%2nd RIley	3786	3789				
Sand & shale	3789	3916	Gas ck @ '3033 28/10-12" w/water			
2 West Riley	3916	3932	328,000 cu.ft.			
Sand & shale	3932	4080	5 5 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Benson	4080	4090	Gas ck @ 3442 28/10-12" w/water			
Sand & shale	4090	4716	328 cu.ft.			
3rd ELk	4716	4720				
Sand & shale	4720	4951	Gas ck @ 3920 14/10-12" w/water			
4th ELk	4951	5020	233,000 cu.ft.			
Sand & shale	5020	5210				
Brown sand	5210	5240	Gas ck @ 4143 20/10-12" w/water			
Sand & shale	5210	5450	277,000 cu.ft.			
Haverty	5450	5510	agent and the state of the stat			
Sand & shale	5510	5750	Gas ck @ 4868 22/10-½" w/water			
Daine a Size		T.D.	291,000 cu.ft.			
Comment of the second of the s						
from hear buy long 12		Brallier	Gas ck @ 5089 20/10-12" w/water			
8		(a) -m.	277 ,000 cu.ft.			
1800) TOO 1800		13/				
And the state of t			Gas ck @ 5564 28/10-½" w/water			
		100	328,000 cu.ft.			
			Gas ck @ drill collars 16/10-3			
			- w/water			
		m	and the state of t			

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

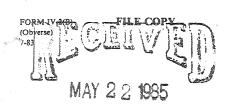
By:

Robert Dahlin-Geologist

Date: 10/3/85

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 and the drilling of a well."





1)	Date: May	17,	19_85_
2)	Operator's	7007	

3) API Well No. 47
State

091 -0506 County Pe

Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

	GAS DI			A.	PPLICAT	ION FOR A WELL	WORK PERMIT			
DEPT 4) WELL TY	PE: A	MINE	<u> </u>							
,		f "Gas", I	roduction	1 _X		_/ Underground st	orage	/ Deep	_/ Shallow	_X/)
5) LOCATIO	N: Ele	vation:	1510				Swamp Run			
		strict: <u>K</u>				County: Ta	aylor	Quadrangle:		
6) WELL OP		_J&J_	Enter	<u>pri</u>	ses,	Tro.	7) DESIGNATED	AGENT Richa		<u>ecliff</u>
Address	***************************************		ox 48			24150	Address	POBo:		
0) 077 0 0 1			hanno	3	WV = 2	6201			annon,	<u>wv 2620</u>
8) OIL & GA NameI				TED		•	DRILLING CO	DATRACTOR: Jack Drill:	ing Co	
Address		4 Cra		ole.	Lane		Address	PO Box 4		
Address		rmont			554		Addiess	Buckhann		26201
0) PROPOSE			Drill	X	_/ Drill	deaner	/ Padrill	/ Stimulate_X	/	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
O) FROFOSE	D WELL	WORK.				/ Perfora			/	
*			-			well (specify)	te new formation	/		
II) GEOLOGI	CAL TAR	GET FOR			Haver					
12) Estima						feet				
13) Appro					65	feet; salt,	0	feet.		
14) Appro	ximate coa	l seam dept	ths:12	20 t	<u>o 450</u>	Is coa	l being mined in the	area? Yes	/ No_	XX/
15) CASING A							_			
CASING OR	H	SPEC	FICATIONS	•	l)	FOOTAGE IN	ITERVALS	CEMENT FILL-UP	PAC	CKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Lest in well	OR SACKS (Cubic feet)		
Conductor	113/4	H-40		X		30	0	0 sks	Kinds	The state of the s
Fresh water	8 5/8	ERW	23	X		1000	1000	to surface	as re	quired by
Coal	8 5/8	ERW	23	Χ		1000	1000	to surface	siRule	1.5.05
Intermediate										
Production	4 1/2	J-55	10.	X		5750 🔄	5750	450 sks	Desis set re	equired by
Tubing									Rule	15.01
Liners	ļ								Perforations:	
***************************************	4								Тор	Bottom
		ļ								·
	1				<u> </u>			<u> </u>	<u> </u>	
 						OFFICE LIFE C	ANTE NO			
		······································		······		OFFICE USE C			<u></u>	
					2	DRILLING PE	ZIABE B			
Permit number_	47-0	91-050	6				-		June 3	19 85
			•			•		Dat	e	
	-	-						ed to drill in accordan	•	-
								iven to the District Oil ell operator or his con		
					-	ork has commenced		on operator of my con	nucioi snun n	only the proper
The permitted w	ork is as d	escribed in	the Notic	e and A	Application	n, plat, and reclama	tion plan, subject t	o any modifications a	nd conditions	specified on the
everse hereof.						, , ,	, , , ,	•		
Permit expires _	June	3, 19	8 /			unless well	work is commenced	prior to that date and	prosecuted wi	th due diligence.
Bond:	Agen	ıt: I	Plat:	Casin	ng	Fee	7			
0-9	1 12	1	n/I	ha	11 10	767	γ	-	/	
82	110	/	11-1	N V I	10 117		1 /04	a protect	1 / /	1 12
						/	1 jun	y user	, ru	
NOTE: V		f +hio	it masts1	at tha =	luillina 1= -	ation	Adm	inistrator, Office of O	il and Gas	
NOTE: Keep o	me copy of	tius perm	it posted	at the C	minning foc	audii.	(/		