



IV-35 (Rev 8-81) OIL & GAS DIVISION
DEPT. OF MINES



State of Mest Airginia

Bepartment of Mines Gil und Gas Bivision

Date	April	9,	198	14
Operato Well No	r's 	J-:	313	
Farm	Mulvay	,		
API No.	47 -	09	5	- 1036

WELL OPERATOR'S REPORT

			O1			
DRILLING.	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

OCATION: Elevation: 763 Watershed N	Middle Isl	and Creek		
District: Centerville County Tyler	(Quadrangle	West Un	ion 7.5
CMPANY J&J Enterprises, INC.				Cement
DDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	fill up
FSIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	Cu. ft.
P.O. Box 48, Buckhannon, WV 26201 DDRFSS	Size			
SURFACE OWNER Edwin D. Mulvay, Et ux	20-16 Cond.			
ADDRESS Star Route, West Union, WV 26456	13-10"	30	0	0 sks.
MINERAL RIGHTS OWNER A.E. Pratte estate	9 5/8			
ADDRESS Box 132, Washington, Pa.	8 5/8	1301.35	1301.35	310 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Robert				
Lowther ADDRESSGeb, Delivery WV 26149	5 1/2			
PERMIT ISSUED 8/1/83	4 1/2	4768.75	4768.75	190 sks
DRILLING COMMENCED 3/6/84	3			
DRILLING COMPLETED 3/13/84	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			·
CN	<u> </u>		4.1-	feet
GEOLOGICAL TARGET FORMATION Alexander			oth	
Depth of completed well 5177 feet	Rotary_x	/ Cab.	re loors_	
Water strata depth: Fresh 45,70 feet;	Salt	o feet	5 	Vo
Coal seam depths: 375-80, 1120-25	Is coal	L being mu	nea un un	e area: NO
OPEN FLOW DATA				
Producing formation Benson	P	ay zone de	pth 465	3-57 feet
Gas: Initial open flow Mcf/d	Oil: D	nitial ope	n flow	BDL/C
Combined Final open flow (762) Mcf/d	F	inal open	flow	Bb1/c
Time of open flow between ini-	tial and	final test	s 4 t	rours
Static rock pressure 1475 psig(surfa	ce measur	ement) aft	er 96 h	ours shut i
(If amplicable due to multiple completion	n)			
Second producing formation Riley	P	ay zone de	pth 421	7-63 fee
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	u itom	BD1/
Final open flow Mcf/d	Oil: F	final open	flow	Bb1/
Time of open flow between ini	tial and	final test	is i	hours

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

Benson: Perforations: 4653-57 (16 holes)
Fracturing: 100 Sks. 80/100 sand: 450 sks. 20/40 sand: 500 gal. Acid; 500 Bbls.flu

RIley: Perforations: 4217-63 (15 holes)
Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 500 gal. Acid:540 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60+(0.0075 \times 4769) + 459.7 = 555 \times 555 \times 555 \times 555 \times 29609 = 0.000034 \text{ Pf=1475} \times 2.72^{(0.000034)}$ $(0.670)(4437)(0.9) = 1475 \times 2.72^{0.09} = 1475 \times 1.09$

Pf=1608 psi

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga			
Clay	0	12				
Shale & sand	12	115	½" stream @ 45'			
Sand, shale & red rock	115	320	-			
Red rock & sand	320	375	2½" stream @ 70'			
Coal	375	380				
Shale & red rock	380	565	Gas ck @ 1829 66/10-1" w/water			
Sand & shale	565	935	61,199 Cu.ft.			
Shale & sand	935	1120	,			
Coal	1120	1125	Gas ck @ 3131 48/10-1" w/water			
	1125	1575	52,715 cu.ft.			
Sand, shale & red rock	1575	1618	32,723 04:200			
Sand	1618	1680	Gas ck @ 4312 40/10-1" w/water			
Big Lime	1680	1807	47,629 cu.ft.			
Injun	1807	2700	47,029 64.26.			
Sand & shale	2700	3080	Gas ck @ 4900 90/10-1" w/water			
Sand & shale	•	4217	71,464 cu.ft.			
Sand & shale	3080		/1,404 Cu.1C.			
Riley	4217	4263				
Sand & shale	4263	4653				
Benson	4653	4657				
Sand & shale	4657	5177				
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(Attach separate sheets as necessary)

J&J Enterprises.	INc.
Well Operator	
By: 50/ /All:	
Date	
Date: M9/84	

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 wal, encountered in the drilling of a well."

DRILLING CONTRACTOR:



1) Date:Au	gust 23	!9 ⁸³
2) Operator's Well No	J - 313	,
3) API Well No	47 - 095 -	1036

County

Permit

State

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

S.W. Jack Drilling Company P.O. Box 48

ckh	annon, W	V 26201	<u></u>		OIL	AND GA	AS WELL PERMI	T APPLICATION			
4)	WELL TYPE	E: A Oil		/ - Gas .	x						
		B (If '	'Gas'', Pro	duction	X		/ Underground:	storage		/ Shallow	x
5)	LOCATION	: Eleva	tion: <u>76</u>	53			Watershed: _	Middle I	sland Creek		
		Distri	ict: <u>C</u> €	enterv:	ille		County: $\underline{\mathrm{Ty}}$	ler	Quadrangle:	West Unior	n 7
6)	WELL OPE					Inc.	1	1) DESIGNATE	DAGENTRicha	rd Reddecl	iff
	Address		P.O.					Address	P.C	Box 48	
			Buc.	khanno:	n, W	V 2620	01		Bu	ckhannon, V	NV 2
7)	OIL & GAS	NIN IED									
	KOYALTY (JWNER _			est	ate -	1		ATOR None		
	Address		Box					Address			
	Астеаде	1.0	<u>wasn</u> 07	ington	, Pa	•		A) CO L C C C C C C C C C C			
8)	SURFACE C			D M:-	· · · · · · · · · · · · · · · · · · ·				R(S) WITH DECLAR		
0,	Address		Star I		rvay	<i>e</i>		Name	-CWIII D: IIId	lvay, Et u	<
	11441000		West I		T477.7	26456		Address	Star Rt.		
	Acreage	107	7					Name	- West Uni	on, \overline{WV} 264	156_
9)	FIELD SALI					***************************************		Address			
-,	Address	- (nknown				Address			
					*****			4) COALLESSE	E WITH DECLARAT	ION ON DECOR	
10)	OIL & GAS	INSPECTO	OR TO BE	NOTIFIE	D			Name		ION ON RECOR	D:
	Name	Rober	ct A. I	Lowther				Address	None		-
. ,	Address		. De b i	-				Addicas	Fig. 5-2/ 12		1
		Midd	llebour	ne, W	J 28	5149			-		
(5)	PROPOSED	WORK:	Drill	, /	Drill o	ieeper	/	1 / Tray	نوي از	1	į
								new formation	۵6/ , T		<i>;</i> *
										1983	
6)	GEOLOGIC.	AL TARGE	T FORM	ATION, _			ander				
1	17) Estimate	d depth of c	completed	well,	497	5	feet		C.11 - C.14	S DIVISION	
1	18) Approxi	mate water	strata dept	hs: Fresh	ı, <u> </u>	73	feet;	salt,O_	- · · ·		_
1	l9) Approxii	mate coal se	am depths	:Nor	ıe		Is coa	d being mined in the	area? Yes	/ No ×	
	CASING AN										
						.1					
	CASING OR TUBING TYPE		SPI	CIFICATIO Weight	NS I	. !	FOOTAC	E INTERVALS	CEMENT FILL-UP	PACKERS	
_		Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
C	onductor	113/4	H-40	42	x		30	0	O sks.	Kinds	
Fr	esh water	8 5/8	ERW	23	X		1100	1100	300 sks.		
C	oal	8 5/8	ERW	23	l x	<u> </u>	1100	1100	300 sks.	Sizes	
In	termediate	<u> </u>			<u> </u>						
Pr	oduction	41/2	J-55	10.5	x		<u> 4925</u>	4925	400 sks.	Depths set	
T	ibing	 		ļ	<u> </u>	1					
<u>Li</u>	ners	 						·		Pertorations:	
_		 							1) 	Top	3വന്ന
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		<u> </u>									
2)	The rec ROYALTY P Is the right to similar provis	ovide one of ed is the lead quirement of ROVISION extract, pro- ion for con-	of the followse or lease of Code 22 NS oduce or managements of the code of the	s or other -4-1-(c) (1) arket the c) throu oil or ga	gh (4). (See reverse side for	or specifics.) er continuing contra	e right to extract oil or act or contracts providing by related to the volum	ng for flat well rove	alty or
f the 3) (4) (e answer abov Required Cop Copies of this named coal o	re is No, no vies (See rev Permit Apperator, coa	Yes Land thing addiverse side.) oplication and owner(s)	No LX tional is n and the end, and coal	eeded.	If the an	iswer is Yes, you	nay use Affidavit F		ivered by hand to	the ol
1	Mines at Chai	rleston, We	st virginia 1	1	1	11		\i /-	Ye V MI	5 (2.1.0-	01
		(scla)	<u> </u>	(An)	Kle-	KAE		Signed:	The state of the s	1 marie	<u> </u>
M	ly Commission	n Expires(MINI	ex)!	16,	1987	_	Its:De	signated Agent	<u> </u>	
							PEICE HEE	NIT N	-		
erm	it number	47	-095-1	036	tori de	G-17 (Sec. 20.2)	FFICE USE C	RMIT	Septen	nber 13	19 {
luire: Refe	ments subject r to No. 10) P	to the con- rior to the c and gas insp	ditions cor construction pector 24 h	itained hei n of roads nours befo	rein and , locatío re actu	d on the ons and p al permit	reverse hereof. No	of permission grante otification must be	Date ed to drill in accordance given to the District Oi in, the well operator or	e with the pertine	
erm'	it expires	S	eptemb	er 13,	198	5	unless dr	illing is commenced	prior to the date and p	prosecuted with du	ہ:انام م
_	ond:	Agent	: , []	Plat:	4	Casing	Fee	- Commenced	day aild	A OSCULLEU WILL QUE	e cillig
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