



IV-35 (Rev 8-81)



OIL & GAS DIVISION
DEPT. OF MINES

State of Mest Birginia Bepartment of Mines

Gil und Cas Zivision

Date	August 27, 1984	_
Opera		_
Well	№. ЈК-987	_
Farm_	Griffin	
API N	095 - 1079	_

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas \times / Liquid Injection (If "Gas," Production \times / Underground	/ Wast nd Storag	e Disposal e/ Deep	L/ D/ Shai	llow _x	_/)
OCATION: Elevation: 1004 Watershed	Big Run				
District: Centerville County Tyle		Quadrangle	Pennsbo	ro 7.	5
OMPANY J&J Enterprises, Inc.					
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	Cement fill	
DESIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	Cu.	
ADDRESS P.O. Box 48. Buckhannon, WV 26201	Size				
SURFACE OWNER Edith Hess Griffin	20-16 Cond.				
ADDRESS P.O. Box 3025, Parkersburg, WV 26101	13-10"	30	0	0	sks.
MINERAL RIGHIS OWNER Same as surface	9 5/8				
ADDRESS	8 5/8	1638.15	1638.15	350	sks.
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			<u> </u>	
Lowther ADDRESS Gen. Del, Middlebourgn, WV	5 1/2				
PERMIT ISSUED 6/12 /84 26149		5937 75	5937.75	390	sks.
DRILLING COMMENCED 8/11/84	4 1/2	1 3337.73	3337473	330	
DRILLING COMPLETED 8/17/84					
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			<u> </u>	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners				
CN CN	used			<u> </u>	
GEOLOGICAL TARGET FORMATION Alexander		Dep	th		feet
Depth of completed well 5995 feet F	Rotary	_/ Cabl	e T∞ls_		
Water strata depth: Fresh 160,560 feet;	Salt	feet			
Coal seam depths: None	Is coal	being min	ed in the	area?	No No
OPEN FLOW DATA				-	
Producing formation Devonian Shale	Pay	y zone dep	th 5802-	5916	_feet
Gas: Initial open flow Mcf/d	Oil: In	itial open	flow	F	3p1/q
Combined Final open flow 502 Mcf/d	Fi	nal open f	low	F	3b 1/d
Time of open flow between init	ial and f	inal tests	4 hc	rurs	
Static rock pressure 1800 psig(surface	e measure	ment) afte	r 96 hou	ırs shı	ut in
(If applicable due to multiple completion)		4 <u>5</u> 08-	-31	
Second producing formation Renson & Rile	ey Pa	y zone dep			_feet
Gas: Initial open flowMcf/d	Oil: In	itial oper	flow]	Bb1/d
Final open flow Mcf/d	Oil: Fi	nal open f	low]	Bb1/d
Time of open flow between init	ial and f	inal tests	5h	ours	
Static rock pressurepsig(surface	measurem	ent) after	ho	~ ~ ~ ~ .	
		(Conti	irue on re		9 1984 side

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

Devonian Shale: Perforations: 5802-08 (10 holes) 5913-16 (6 holes) Fracturing: 300 sks. 20/40 sand:630 Bbls. fluid.

Benson: Perforations: 4894-96(8 holes)

Fracturing: 300 sks. 20/40 sand:500 gal. acid:460 Bbls. fluid.

Riley: Perforations: 4508-10(4 holes) 4518-20(4 holes) 4530-31 (4 holes: Fracturing: 250 sks. 20/40 sand: 500 gal. acid: 460 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (0.0075 \times 5938) + 459.7 = 564 \times \overline{x=53.35 \times 459.7} = 24636 = t=60 + (0.0075 \times 5938) + 459.7 = 564$ $x = \frac{1}{53.35 \times 564} = \frac{1}{30089} = 0.000033$ Pf= 1800 x 2.72 (0.000033) (0.735) (.5212) (0.9) =1800 x 2.72 =

1800 x 1.1 Pf=2009 psi

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red clay White sand Sand & shale Sand, shale & red rock Sand, shale & red rock Gray sand & shite sand Sand & shale Big Lime	0 3 110 233 500 1370 1520 1860	3 110 233 500 1370 1520 1860 1910	Damp @ 135 More water @ 160 ½" stream @ 1820 Gas ck @ 2080 No show
Big Injun Sand & shale Riley Sand & shale Benson Sand & shale Devonian Shale Sand & shale	1910 2015 4508 4531 4894 4896 5802 5916	2015 4508 4531 4894 4896 5802 5916 5995 T.D.	Gas ck @ 3463 No show Gas ck @ 4631 4/10-1" w/water 15,041 cu.ft. Gas ck @ collars 2/10-1" w/water 10,650 cu.ft.

... (Attach separate sheets as necessary)

8/27/84 Date:

Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including inal, encountered in the drilling of a well."

1)	Date:	MAY 23	, 1	9 84
2)	Operator's Well No	JK-987		
3)	API Well No.		- 1079	
		State	County	Darmit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY					<u>X</u> /					
	•	If "Gas",			<u> </u>	/ Undergrou	nd storage		/ Shallow	Χ,
5) LOCATIO		evation: _		<u> 1004</u>		Watershed		(OM:37)		
		strict:	CENTE			County:			PENNSBORO	7.5'
6) WELL OP				K121	<u>.S. 11</u>	IC.	7) DESIGNATE	dagent <u>RICH</u>	ARD M. REDD	ECLIF
Address	5		30X 48	107	06001		Address	P.O.	BOX 48	
	~	BUCKHA			26201				HANNON, WV	2620
8) OIL & GA					-0		9) DRILLING C			
Name		ROBERT GENERA		OWTHE IVERY			Name		K DRILLING	CO.
Address	·	MIDDLE				40	Address	<u> </u>		
				<u>W W V</u>				BUCKHANN		01
0) PROPOSE	D WELL	WORK:	Drill	۸	_/ Dril			/ Stimulate	<u>X</u> /	
							forate new formation	/		
						n well (specify)_				
i) GEOLOGI					LEXAN	DEK				
12) Estima	_	-			300 t	f	eet			
13) Appro		-			6511	•		feet.		
14) Appro		_) DU -	·651 ¹	Is	coal being mined in the	e area? Yes	/ No/	Χ
5) CASING A	ND TUBI							•	<u></u>	
CASING OR TUBING TYPE	1	SPEC	IFICATION: Weight	8	_	FOOTAG	GE INTERVALS	CEMENT FILL-UP	PACKERS	
	Size	Grade	per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
onductor	11 3/4			X		30	0	0 Sacks	Kinds	
resh water	8 5/8	133	23	<u> X</u>		1104	1104 '	To surface	NEAT	13
oai	8 5/8	ERW	23	<u> X</u>		1104 '	1104 1	To surface	Sizes:	13
ntermediate-	43	3 55	7	<u> </u>					n or	4
roduction	41/5	J-55	10.5	Χ		52:00 '	5200 t	225 Sacks	Depths set	
ubing		·	ļ				· ·	or as requ	Fred by Rul	e 15
iners								`	Perforations:	64
		<u> </u>							Тор	Bottom
	i;			· ·						Comment of the second
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				· · · · · · · · · · · · · · · · · · ·		OFFICE USE			· · · · · · · · · · · · · · · · · · ·	
						DRILLING P	EKMIT			
rmit nuraber_	<u>47-0</u>	<u> 195–107</u>	79					June 12.		19
								Dat	e	
is permit cover	ring the we	ell operato	r and well	locatio	n shown	below is evidence	e of permission grante	d to drill in accordan	ce with the pertine	nt legal
	or to this co	manuons c	Unitamicu i	ici ciii a	nia on mi	e reverse nereor.	Notification must be gi ork. In addition, the we	ivan to the District Oil	land Can Income	/D . C .
trict oil and ga	s inspector	r 24 hours	before ac	tual per	mitted w	ork has commen	ced.)	in operator or his con-	tractor shall notify	the pro
							mation plan, subject to	any modifications		a
erse hereof.						., plat, una recia	mation plant, subject to	any modifications at	id conditions specif	fied on
rmit expires	June	12, 1	L986	······································		unless w	ell work is commenced	prior to that date and	prosecuted with due	e diligen
·			· · · · · · · · · · · · · · · · · · ·						,	, amgen
Bond:	Agent	:•∕ P	lat:	Casin	g	Fee				
BB		In	nn	m	1/					
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OTE: Keep on	e copy of	this name:	t nocted -	• •ba -l-	illine le	-4:	Admir	nistrator, Office of O	il and Gas	
Accp Oil		rus betiut	i posteu a	ı une di	ming loc	auon.				1721
5,215		See t	he reverse	side of	the API	PLICANT'S COF	PY for instructions to t	he well operator		File
								ne nen operator.		