

IV-35 (Rev 8-81)





DIVISION OF OIL & GAS State of Mest Hirginian DEPARTMENT OF ENERGY

Bepartment of Mines Gil und Gas Bivision

Date	August 22	2, 1985
Operator' Well No.	<b>s</b> J-743	
Farm Albe	rt Gatrell	Hrs.
API No. 4	7 - 095	<u>1020-Re</u> r

WELL OPERATOR'S REPORT

OF

## DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1031 Watershed	SHOLC KUIT			
District: Centerville County Tyle:	<u> </u>	Quadrangle	West Uni	on
To a second seco				
COMPANY J&J Enterprises, Inc.	ſ <u></u>	1	- 6:	Cement
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in		fill up
DESIGNATED AGENT Richard Reddecliff	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P.O. Box 48, Buckhannon, WV 26201	Size 20-16			
SURFACE OWNER Albert Gatrell Hrs.	Cond.			
ADDRESSC/O Cammie Gatrell, Greenwook, WV 26360	13-10"	30	0	0 sks.
MINERAL RIGHTS OWNER Same as surface	9 5/8			
ADDRESS	8 5/8	1194.15	1194.15	260 sks.
OIL AND GAS INSPECTOR FOR THIS WORKROBERT A.	7			
General Delivery Lowther ADDRESS Middlebourne, WV 26149	5 1/2			
PERMIT ISSUED 10/7/83 .	4 1/2	5024.30	5024.30	210 sks
DRILLING COMMENCED 7/22/85	3			
DRILLING COMPLETED 7/27/85	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
GPOLOGICAL TARGET FORMATION Alexander		Der	oth 5165	_ <sub>5195</sub> feet
Depth of completed well 5458 feet	Rotary_	_x/ Cab	le T∞ls_	
Water strata depth: Fresh 130,1460 feet;	Salt 0	fee	t	
Coal seam depths: None				e area? <u>N</u>
OPEN FLOW DATA	D:	av zone de	oth 4010	14 fee
Producing formation Benson  Gas: Initial open flow Mcf/d	Oil. Tr	nitial ope	n flow	Bb1/
Combined Final open flow 440 Mcf/d	F.	inal open	flow	Bb1/
Time of open flow between ini				
Static rock pressure 1500 psig(surfa				
(If applicable due to multiple completion		av zone de	epth 4	Ell on <b>fee</b>
Second producing formation Riley  Gas: Initial open flow Mcf/d	Oil. T	nitial oc	n flow	Bb] /
Final open flow Mcf/d				
Time 1 Flank				

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

Riley: Perforations: 4511-39 ( 8 holes)

Fracturing: 440 sks. 20/40 sand: 500 gal. acid: 410 Bbls. fluid.

Benson: 4912-14 ( 8 holes)

Fracturing: 300 sks. 20/40 sand:400 bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS  $t=60 + (0.0075 \times 5024) + 459.7 = 557$   $x=53.35 \times 557$  = 29716 = 0.000034 Pf=1500 x 2.72 (0.000034)  $(0.625)(4713)(0.9) = 1500 \times 2.72^{0.09} = 1500 \times 1.09$ 

Pf=1635 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
Clay & red rock Sandy shale & gray sand White sand & sandy shale Shale & red rock Sand, shale & red rock Sand, lime & red rock Sandy shale & red rock Sandy shale & sand Sand & sandy shale Sand & sandy shale Little lime Shale Big Lime & Injun Sand& shale Shale & sand Sandy shale & sand Riley Sandy shale Benson Sand Alexander Sandy shale	0 10 80 255 405 675 760 855 1145 1720 1850 1870 1880 2065 2420 3095 4511 4539 4912 4914 5165 5195	10 80 255 405 675 760 855 1145 1720 1850 1870 1880 2065 2420 3095 4511 4539 4912 4914 5165 5195 5458 T.D.	hy" stream @ 130'  Damp @ 1460  1hy" stream @ 1470  Gas ck @ 2098 No show  Gas ck @ Drill collars 22/10-1" w/water 35,313 cu.ft

(Attach separate sheets as necessary)

J&J Enterpr Well Operator Dahlin - Geologist \_ tate:

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 that, encountered in the drilling of a well."



8/29 19\_83 1) Date:\_

2) Operator's Well No.\_\_ J-743 (RENEWAL)

47 -095 - 1020-Ren 3) API Well No. State County

1-62)	
DRILLING CONTRACTOR:	•
S W Jack Drilling Co.	STAT

		Drilling	Co.
Donne	0.		

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

OLD	NO	10	)2(	)

Permit

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			/ Gas			,		· •		
LOCATION:	II P (III )	ion:	1031	india <del>e Par</del>	المستفلاة أنا	✓ Underground s	storage	_/ Deep	/ Shallow	X
, LOCATION.			enterv				Short Run Ler		<u> </u>	· · ·
WELL OPER	ATOR	J&J E	nterpr	ises	Inc	County: <u> </u>	1) DESIGNATED	Quadrangle:	West Unic	on
Address	্তে জন	P.O.	Box 48	3′ , ≋ ∴ે.	ar fishii,		I) DESIGNATED	AGENT _RICHA	ara Reddec	TITT
		Buck	hannor	ı, WV	2620	01	Vanicas	P.O.	khannon,	WT7 262
OIL & GAS							•	Бас	Anamon,	WV 262
ROYALTYO	WNER _	Alber	ť Gatr	e11 I	eirs	<u> </u>	2) COAL OPER.	TOR .		
Address			mie Ga				Address		***************************************	*****
	* ***	Gree	, boown	WV 2	6360		-			
Acreage	139.75					1	3) COAL OWNER	(S) WITH DECLA	RATION ON R	FCORD:
SURFACE OV						<u>-                                     </u>	NameA	<u> bert Gatrel</u>	l Heirs	LCORD.
Address	c	/O Car	mmie G	atrel	1	PIP PI		C/O Cammie	Gatrell	
h) # 64".		reenw	ood, W	W 26	360	141 150	50 V P	Greenwood,	WV 2636	0
	92.75						Name	En Marin Land Con-	* A **	
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Also Desire			<del></del>			14	4) COAL LESSEE	WITH DECLARA	TION ON REC	ORD:
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PROPOSED V	VORK:	Drill3	<u> </u>	Drill de	eper	/ Redrill	Fract	ure or stimulate	x/	
		Plug off	old form	nation		Perforate n	ew formation			
		Other phy	ysical cha	nge in w	ell (spec	cify)		-		
COLORIE A	LTARGET	FORMA	TIONs .	7 7 (17)	Alex	ander	<u>and the second </u>			
Con Principal	depth of co	mpleted v	veli,	550	0	fect				
ter Appresiu	ate water st	rata depti	ıs: Fresi	ı <b>,</b> 360	450	feet;	salt, O	feet.	* ' * '	
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177 Approxim		m depths:	NO	ne		Is coal	being mined in the a	rea? Yes	/ No	· •
A CHARLES	ER L	m depths:	NO	ne 🍌 💥		Is coal	being mined in the a	rea? Yes	/ No	x
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eAsike Ako	HUBING	PROGRA	MY	ego y Jan	Č 🔭 .		being mined in the a	CEMENT FILL-UP	/ No	X
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quirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 16) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires	October 7, 1985	unless drilling is commenced prior to that date and prosecuted with due diligence
Bond: Agent:	Plat: Casing	Fee  Administrator, Office of Oil and Gas

### DRILLING CONTRACTOR:

.W. Jack Drilling COmpany



1)	Date:	Dec. 30	, 19_82
2)	Operator's Well No.	J-743	
	W CH 140.		

3) API Well No. 47 County Permit

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

## OIL AND GAS WELL PERMIT APPLICATION

					Inda Res						
4)	WELL TYPE:		"Gas", Prod		×	Underground sto	age		Deep/	Shallow _	/)
5)	LOCATION:	Eleva	ation:	1031	.5332	Watershed:		un	Quadrangle:	Mant Tinin	
		Distr	ICt.	terpris	es, Inc.	County:	DESIGN	ATED A	Quadrangle:	M. Redde	cliff
6)	WELL OPERA Address	TOR_	P.O. B				Addre		P.O. BO	× 48	
	Address		Buelcha	nnon, W	W 26201			to = "	Buckham	non, WV	26201
7)	OIL & GAS										
	ROYALTY OV				1 Heirs	12)	COALO		)R	0.1000	
	Address	- 0/	O Carmi		V 25360		Addre	SS			
	Acreage		139.75		19 20.700		COAL O	WNER(S	) WITH DECLARA	TION ON RE	CORD:
8)	SURFACE OW	NER_	Albert	Gatrel	1 Heirs		Name _	Albei	rt Gatrell H	elrs	
,	Address	_C/0		e Gatre		_	Addre	ess _	Greenwood,		0
			Green 92,75	wood. I	V 26360		NT	-	OL GOTHOUT!	N. C. INSTITUTE	-
-	Acreage	(IE MA)				_	Name				
9)	FIELD SALE Address	(IF MA)	Unknow	m		-	Addie			all the later	
	Address					14)	COAL L	ESSEE V	VITH DECLARATI	ON ON RECO	RD:
10)	OIL & GAS II						Name _				
	Name		A. Lowt				Addre	ess _			
	Address		meral De		v 2614	10		_			
							,	Fractu	re or stimulate	2	
15)	PROPOSED V	WORK:				/ Perforate ne					
					e in well (spec						
16)	GEOLOGICA	LTARC					1				-
	17) Estimated	depth o	f completed v	vell,	5500	feet					
	18) Approxim	ate wate	er strata depth	ns: Fresh,	360,450		alt,		feet.	/ No	* /
	19) Approxim	nate coal	seam depths:	None		Is coal	being mined	in the ai	ea? res		
20)	CASING ANI	TUBIN	NG PROGRA	AM							
	CASING OR		SPE	CIFICATIONS		FOOTAGE	INTERVALS		CEMENT FILL-UP OR SACKS	PACKE	RS
	TUBING TYPE	Size	Grade	Weight per ft.	New Used	For drilling	Left in	well	(Cubic feet)	10000	-
	Conductor	11 3/	4 H-40	42	×	30	0		0 sks.	Kinds	
	Fresh water	8 5/	BERW	23	×	1200	120	0	To surface	Sizes	
	Coal	8 3/	R RKW	23	X	1,000	120	V	20 Strange	Sizes	
	Intermediate	44	J-55	10.5	×	5450	545	0	300 aks.	Depths set	
	Production Tubing	-	0 00	40.00							
	Liners									Perforations:	
										Тор	Bottom
	EXTRACTIO										
If	The reconstruction of the answer above Required Copies of the named coal of Mines at Characteristics.	ed is the quiremer ROVISI extract, ion for a marketed re is No, oles (See permit opperator, arleston,	lease or lease at of Code 22 ONS produce or m compensation ? Yes  nothing add reverse side. Application , coal owner West Virgin	es or other of 2-4-1-(c) (1)  market the oin to the own No itional is ne of and the ends), and coal ia.	through (4).  I or gas based oner of the oil seeded. If the acceptance of the oil seeded of the acceptance of the oil seeded of the acceptance of the oil seeded on or because of the	(See reverse side for upon a lease or othe or gas in place who	er continuin ich is not in nay use Affi have been ne mailing (	g contract nherently fidavit For mailed by or deliver	t or contracts providing related to the volume orm IV-60.  The registered mail or only of this Permit Approximate	ing for flat well ne of oil or gas delivered by har plication to the	nd to the above
	My Commissio	n Expire	s /19/119	1			115:				
					(	OFFICE USE O	DNLY				
	-	47-3	95-1020			DRILLING PE	RMIT				19
Pe	rmit number _								Da	ite	
qu	irements subjec	t to the	conditions co	ontained her	locations and	d pits for any permitted work has con	tted work.I	n additio	d to drill in accordangiven to the District n, the well operator of prior to that date and	Oil and Gas In or his contractor	shall notify the
Pe	ermit expires	1.	cont:	Dlatt	Cosino		rilling is cor	nmenced	prior to that date and	a prosecuteu wi	in due dingence.
	Bond:	A	gent:	Plat:	Casing	Fee		Ad	ministrator, Office of	of Oil and Gas	100

#### Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
  - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
  - 5) Where well is located
  - 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
  - 7) Use separate sheet if necessary
  - 8) Present surface owner at time application is filed.
  - 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
  - 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
  - 16) Anticipated formation for which well will be completed
  - 17) Self explanatory
  - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
  - 19) All coal seam depths
  - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
  - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
    - (1)A brief description of the tract of land including the district and county wherein the tract is located;
    - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
    - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
    - (4)A brief description of the royalty provisions of each such lease or contract.
  - 22) Code 22-4-11(d) and 22-4-11(e).
  - 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

		•	•	nd by any coal owner or coal lessee nit is to be issued within fifteen (15)
	•		WAIVER	
amined this added to the	proposed well location. If a mine map. The undersigned	mine map exists w I has no objection	hich covers the are to the work propos	/of the coal under this well location has exact a of the well location, the well location has been sed to be done at this location, provided, the well code and the governing regulations.
Date:	, 19	······································	By	