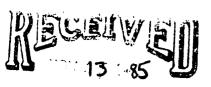


-35 , 8-81)



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of Mest Birginia

Bepartment of Mines Gil and Gas Bivision

Date	November	12, 1985	
Opera Well	tor's	JK-1210	
Farm	Dale As	sh.	
API N	No. 47 -	095 -	1112

. WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

•				llow_x_/)
ATION: Elevation: 1064 Watershed	Mudlick Run	1	_	
District: Centerville County Tyles	<u></u>	Quadrangle	Pennsbor	·o
PANY J&J Enterprises, Inc.				
DRESS P.O. Box 48, Buckhannon, WV 26201	Casing	Used in	Left	Cement fill up
TOWNER ACTIVE Dishard Roddocliff	Tubing	Drilling	in Well	Cu. ft.
DRESS P.O. Box 48, Buckhannon, WV 26201	Size			
RFACE OWNER Dale Ash hr. C/O Ralph Ash	20-16			
DRESS Star Route, Box 57, West Union, WY 26456	13-10"	205.55	205.55	100 sks.
NERAL RIGHTS OWNER Same as surface	9 5/8			
DRESS	8 5/8	1666.90	1666.90	125 sks.
T. AND GAS INSPECTOR FOR THIS WORK Robert	7			
Lowther ADDRESS Middlebourne, WV 26149	5 1/2			
RMIT ISSUED 7/17/85	4 1/2	5348.50	5348.50	265 sks.
RILLING COMMENCED 10/7/85	3			
RILLING COMPLETED 10/14/85	2			
F APPLICABLE: PLUGGING OF DRY HOLE ON ONTINUOUS PROGRESSION FROM DRILLING OR EWORKING. VERBAL PERMISSION OBTAINED N	Liners used			-
POLOGICAL TARGET FORMATION Rhine Street		De	pth	feet
Depth of completed well 5987 feet	Rotary x	 , / Cab	le Tools	
Water strata depth: Fresh 55,595 feet;				
Coal seam depths: None			ned in th	he area? No
OPEN FLOW DATA		· 3a		na-20 fee
Producing formation Alexander				75-20
Cas: Initial open flow Mcf/d Combined Final open flow 1,254 Mcf/d	011: 1	mittal ope	flow	
Time of open flow between in				
Static rock pressure 1700 psig(surf				
		.elelly al		
(If applicable due to multiple completion Second producing formation Benson & Ri		Pav zone d	4516 epth 4916	
Gas: Initial open flow Mcf/d				
COS: HILLET CACH TIME STATE				
	a Oile	LIDE COCI	, <u></u>	
Final open flowMcf/d				
	nitial and	final tes	ts	hours

FORM IV-35 (REVERSE)

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

Riley: Perforations: 4516-20 (6 holes) 4526-28(8 holes) 4542-44(6 holes)

Fracturing: 500 sks. 20/40 sand: 475 Bbls. fluid.

Benson: Perforations: 4916-18(8 holes)

Fracturing: 350 sks. 20/40 sand: 500 gal. acid: 433 Bbls. fluid.

Alexander: Perforations: 5209-12 (8 holes) 5218-20 (6 holes)

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (0.0075 \times 5349) + 459.7=560$ $\frac{1}{53.35 \times 560} = \frac{1}{=29876} = 0.000033$ $pf=1700 \times 2.72^{(0.000033)}$ $(0.695)(4868)(0.9) = 1700 \times 2.72^{(0.1000033)} = 1700 \times 2.72^{(0.000033)}$

Pf=1870 psi

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fro
			and salt water, coal, oil and
Top Soil & Clay	0	5	
Red rock & shale	5	35	Damp @ 55'
Sand, red rock & shale	35	110	
Red rock, shale & sand	110	. 200	Damp @ 595'
Red rock, shale & sand	200	450	
Sand & shale	450	560	Gas ck @ 2110 6/10-7" w/water
Red rock, sand & shale	560	680	3,965,000 cu.ft.
Sand, shale & red rock	680	905	
Sand & shale	905	1060	Gas ck @ 2887 4/10-7" w/water
Red rock, sand & shale	1060	1240 ~	3,233,000 cu.ft.
·Red rock & shale	1240	1390	
Sand & shale	1390	1440	Gas ck @ 3445 4/10-7" w/water
Sand & shale	1440	1725	3,233,000 cu.ft.
Sand & shale	1725	1860	
Lime & shale .	1860	1900	Gas ck @ 4468 4/10-7" w/water
Shale	1900	1935	3,233,000 cu.ft.
B ig Lime	1935	1985	1
Big Injun Col	1985	2095	Gas ck @ 4590 4/10-7" w/water
Shale	2095	2275	3,233,000 cu.ft.
Sand & shale	2275	3065	
Sand & shale	3065	3800	
Sand & shale	3800	4440	
Sand & shale	4440	4516	
Riley	4516	4544	
Sand & shale	4544	4916	
Benson	4916	4918	·
Sand & shale	4918	5209	
. Alexander	5209	5220	•
Sand & shale	5220	5987.D.	
-		Rhinista	1
•		Krinist,	GP TD.
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		}	
		.	
	T		

(Attach separate sheets as necessary)

J & J Enterprises, Inc.

By:
Date: 11/12/85 Repbert Dahlin - Geologist

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 ward, encountered in the drilling of a well."

1)	Date:	i'iay	31		19	
2)	Operator's Well No			JK-1210		
3)	API Well N	io.	47	-095-1112		
- /			ate	County	Per	mit

4 WELLTYPE: A Oil Gas DEPT. 2004 Min State of the Application of the Service of Service of the Application of the Service of Service of the Application of the Service of the Ap					OIL &				VELL WORK PERMIT			
Social Color Soci				_ DE	- P	· OF	MIN	lES		-		
Solution District Centerville Content District Centerville Centerville Content District Centerville Content Centerville Cen	4)	WELL TY		ш		as	(and at a sa	/ D	, g: 1: X	
District: Centerville County: Tyler Quadrangle: Pennsboro 7.5' (b) WELL OPERATOR J. A. J. Enterprises, Jnc. 42.7' Address P.O. Box 48 2.2/17 DESIGNATED AGENT Richard Reddecliff Address P.O. Box 48 3.2/17 DESIGNATED AGENT Richard Reddecliff Name Robert Lowther Suckhannon, WV 26201 (b) OIL & GAS INSPECTOR TO BE NOTIFIED (c) Mane Robert Lowther Suckhannon, WV 26201 (c) DRILLING CONTRACTOR: Name S. N. Jack Drilling Address P.O. Box 48 Buckhannon, WV 26201 (d) PROPOSED WELL WORK: Drill X Drill deeper Redrill Suckhannon, WV 26201 (e) PROPOSED WELL WORK: Drill X Drill deeper Redrill Simulate X Price of God formation Perforate new formation. (Other physical change in well (specify) (p) GEOLOGICAL TARGET FORMATION. Rilling Street 441 (12) Estimated depth of completed well. (3) Approximate roal seam depths. (A) Approximate roal seam depths.	5)	LOCATIO	. `	•					ما مقا⊺ است. الا	Run Deep	_/ Shallow	_/)
Section of the properties of	٠,	LOCATIO					le		*		Pennsboro 7.	5
Buckhannon, W 26201 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther Name S. W. Jack Drilling Address General Delivery Address P.O. Box 48 Middlebourne, W 26149 Buckhannon, W 26201 10) PROPOSED WELL WORK: Drill X Drill deeper Redrill Stimulate X Plug off old formation Other physical change in well (specify) 11) GEOLOGICAL TARGET FORMATION. Rhine Street 441 12) Estimated depth of completed well, 5995 feet 13) Approximate trata depths: Fresh, 125 feet, sah N/A feet. 14) Approximate coal same depths: N/A is soal being mined in the area? Yes No X 15) CASING AND TUBING PROGRAM CONDUCTOR 1778 Sire Grade Weigh New Lived for defiling Lettin well Conductor 11, 3/4 H-40, 42 X	6)	WELL OI	PERATOR_	J & .] Ente	erpris	es, I	nc. 427	7) DESIGNATE			f
8) OLL & GAS INSPECTOR TO BE NOTIFIED Name Robert Lowther Address General Delivery Middlebourne, W. 26149 Pley off old formation Pley off old formation Other physical change in well (specify) Other physical change in well (specify) Cother physical change in well (specify) Other physical change in well (specify) Cother p								24150	Address			
Name Robert Lowther Address General Delivery General Genera				Buck	nannor	ı, WV	26201			Bucl	<u>khannon, WV 26</u>	<u> 201</u>
Address General Delivery Middlebourne, WV 26149 PROPOSED WELL WORK: Drill X Drill Y 26149 Buckhannon, WV 26201	8)	OIL & G				IFIED			9) DRILLING C			
Middlebourne, W 26149 Buckhannon, W 26201											rilling	
PROPOSED WELL WORK: Drill X Drill deeper Redrill Stimulate X		Addre				•	140		Address		WV 26201	
Plug off old formation Perforate new formation Other physical change in well (specify) 11) GEOLOGICAL TARGET FORMATION, Rhine Street 12) Estimated depth of completed well, 5995' feet, sait. N/A feet. 13) Approximate trata depths: Fresh, 125 feet, sait. N/A feet. 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes No X / SASING AND TUBING PROGRAM CASING AND TUBING PROGRAM CASING OR SECHICATIONS TUBING TYPE, Size Grade per to New Used Free drilling Left in well. OR SACKES Conductor 11 3/4 H-40. 42 X 1 1664' 1664' TO Surface Conductor 13 3/4 H-40. 42 X 1 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal S 5/8 ERW 23 X 1664' TO Surface Coal Sures Tubing The transfer of the well operator of the surface of the s	•••	ppopon			-				(5 1 20			
Other physical change in well (specify) Rhine Street 444 12) Estimated depth of completed well, 5995¹ feet 13) Approximate trata depths: Fresh, 125¹ feet; salt. N/A feet. 14) Approximate coal seam depths: N/A is coal being mined in the area? Yes. No X 15) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR STECHICATIONS TEING TYPE Size Grade Weep's New Used Fredmilling Left is red Coale for SACKS Coale S. 5/8 FRW 23 X 1664¹ 1664¹ TO SURFace Coal S. 5/8 FRW 23 X 1664¹ 1664¹ TO SURFace Coal S. 5/8 FRW 23 X 1664¹ 1664¹ TO SURFace Coal S. 5/8 FRW 23 X 5995¹ 5945¹ 300 Sacks Depths set Production 4½ J-55 10,5 X 5995¹ 5945¹ 300 Sacks Depths set Depth set Production Grade Weep's New 100 Sacks OFFICE USE ONLY DRILLING PERMIT July 17 19 85 This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to Not. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall motify the production of the reverse hereof. Bond: Agent: Plat: Casing Fee	10)	PROPOS	ED WELL	WORK:							/	
13 Description of completed well, 5995 feet					_		-			/		
12) Estimated depth of completed well, 13/4 Approximate trata depths: Fresh, 125' feet; salt, N/A feet. 14) Approximate coal scan depths: N/A Is coal being mined in the area? Yes No X 15) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR SPECIFICATIONS TUBING TIPE Size General Weight Now Used For defining Left in well Code feet) Conductor 11 3/4 H-40 42 X 1664' 1664' TO SURFACE Cool 8 5/8 ERW 23 X 1664' 1664' TO SURFACE Cool 8 5/8 ERW 23 X 1664' 1664' TO SURFACE Cool 9 5/8 ERW 23 X 1664' 1664' TO SURFACE Intermediate Production 41/2 J-55 10.5 X 5995' 5945' 300 Sacks Depths set OFFICE USE ONLY DRILLING PERMIT July 17 19 85 Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal regularization 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 accular permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit experies July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Bond: Agent: Plat: Casing Fee 82 H/B Plat: Casing Fee MACHINERY SALE SALE SALE SALE SALE SALE SALE SALE	11)	GEOLOG	GICAL TAR	GET FOR					441			
14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes No X 15) CASING AND TUBING PROGRAM CASING AND TUBING PROGRAM CASING TYPE Star Grade per ft. New Used Professions FOOTAGE INTERVALS CEMENT FILL-UP OR SACKS Conductor 1.3 / 4 H-40 42 X 200 STACKS Conductor 1.3 / 4 H-40 42 X 200 STACKS Conductor 1.3 / 4 H-40 42 X 200 STACKS Conductor 1.3 / 4 H-40 42 X 200 STACKS Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Conductor 1.3 / 4 H-40 42 X 1664 1664 To Surface Stars Tobbia To Surface Stars To Surface Stars To Surface Stars Tobbia To Surface Stars To Surface To Surface Stars To Surface Stars To Surface To Sur	ĺ						5995'		feet			
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CANGOR TUBING TYPE Size Grade See Grade See See		14) Appr	oximate coa	l seam dep	ths:		N/A	I	s coal being mined in th	e area? Yes	/ NoX	/
TUBING TYPE Size Grade perfit New Used For drilling Left in well GOB SACKS Clouds (ret)	15)	CASING	AND TUBI	NG PROC	GRAM							
Size Crode per ft. New Used For drilling Left in well Scatters Conductor 1 3/4 H-40 42 X 1664 1664 1664 To Surface Surfa								FOOTAGE INTERVALS			PACKERS	
Fresh water 8 5 /8 ERW 23 X 1664 1664 170 Surface Stress Coal				 		+	Used			(Cubic feet)		
Coal 8 5/8 FRW 23 X 1664¹ 1664¹ To Surface sizes Intermediate				T						+	75 Dyn	ul
Intermediate Production 412			IF - 1 -	1	1	1						Sie
Production 4½ J=55 10.5 X 5995 5945 300 Sacks Depths set or as required by rule 15-01 Perforations. Depth			B 5/8	ERW	23	 ^		1004	1004	10 Surface	Sizes	
OFFICE USE ONLY DRILLING PERMIT July 17 19 85 Top Bottom Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements 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. 8) 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.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit expires July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Bond: Agent: Plat: Casing Fee Way 1989 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File			112	.1-55	10.5	Y		59951	5945'	300 Sacks	Denths set	
OFFICE USE ONLY DRILLING PERMIT July 17 19 85 Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements 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. 8) 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.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit expires July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Bond: Agent: Plat: Casing Fee 82 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File			7-2	0-33	10.5	T-A-			0310		<u> </u>	5-01
OFFICE USE ONLY Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements 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. 8) 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.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit expires	Lin	ers										
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district oil and gas inspector 24 hours before actual permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit expires	qui	rements sub	oject to the c	onditions	contained	d herein a	and on the	e reverse hereof	Notification must be	given to the District Oi	l and Gas Inspector. (R	efer to
The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. Permit expires July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Bond: Agent: Plat: Casing Fee 1984 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File										well operator or his con	tractor shall notify the	proper
Permit expires July 17, 1987 unless well work is commenced prior to that date and prosecuted with due diligence. Bond: Agent: Plat: Casing Fee 1982 H/13 my my 1984 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File			-		•				ŕ	to any modifications a	nd conditions specified	on the
Bond: Agent: Plat: Casing Fee 82 #173 my my 1984 NOTE: Keep one copy of this permit posted at the drilling location. File							I ppii cu (io	n, plat, and rec	namation plant, subject	to any mounteations a	na conditions specifica	Oil the
82 #173 my my 1984 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File	Per	mit expires		July 1	7, 19	87		unless	well work is commence	d prior to that date and	prosecuted with due dil	igence.
82 #173 my my 1984 Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File	г			····								
Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File	1	Bond:	Ager	nt:	Plat:	Casir	ng	Fee		· ^		
Administrator, Office of Oil and Gas NOTE: Keep one copy of this permit posted at the drilling location. File		82	A113	V	n/I	m	1 /	984		$\langle \mathcal{E} \rangle$		
NOTE: Keep one copy of this permit posted at the drilling location. File	L		1	1,	, 1N	· · · ×	<u> </u>	, ~ ,	1	Jaulus		
NOTE: Keep one copy of this permit posted at the drilling location. File									Adr	ninistrator, Office of C	Oil and Gas	
	NC	TE: Keep	one copy o	f this pern	nit posted	d at the d	rilling loo	cation.				
				See	the reve	rse side o	of the AP	PLICANT'S O	OPY for instructions to	the well operator		File