

IV-35
Rev 8-81



Date October 8, 1985
Operator's
Well No. JK-1213
Farm Virginia Cottrill
API No. 47 - 017 - 3451

RECEIVED
OCT 9 - 1985

DIVISION OF OIL & GAS
DEPT. OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas x / Liquid Injection / Waste Disposal /
(If "Gas," Production x / Underground Storage / Deep / Shallow x /)

LOCATION: Elevation: 965 Watershed Hughes Run
District: Central County Doddridge Quadrangle West Union 7.5

COMPANY J&J Enterprises, Inc.
ADDRESS P.O. Box 48, Buckhannon, WV 26201
DESIGNATED AGENT Richard Reddecliff
ADDRESS P.O. Box 48, Buckhannon, WV 26201
SURFACE OWNER Virginia Cottrill
ADDRESS 102 Tygart St., Parkersburg, WV 26101
MINERAL RIGHTS OWNER Same as surface
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK: Mike
Underwood ADDRESS Rt. # 2, Box 114
Salem, WV 26426
PERMIT ISSUED 7/17/85
DRILLING COMMENCED 8/30/85
DRILLING COMPLETED 9/8/85
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	164	164	75
9 5/8			
8 5/8	1769.05	1769.05	125 sks.
7			
5 1/2			
4 1/2	5230.65	5230.65	275 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Rhine St. Depth feet
Depth of completed well 5993 feet Rotary x / Cable Tools
Water strata depth: Fresh 55,315⁹¹⁰ feet; Salt 0 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Alexander Pay zone depth 5113.5-27.5 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow (492) Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1600 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Riley Pay zone depth 4416-43 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

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(Continue on reverse side)

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


Alexander: Perforations: 5113.5-27.5 (16 holes)
 Fracturing: 400 sks. 20/40 sand: 475 Bbls. fluid.
 Riley: Perforations: 4416-43 (16 holes)
 Fracturing: 200 gal. acid: 326 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we}^{XGLS} \frac{1}{1}$
 $t = 60 + (0.0075 \times 5231) + 459.7 = 559$ $X = 53.35 \times 559 = 29823$ $= 0.000034$ $P_f = 1600 \times 2.72$ (0.000034)
 $(0.85)(4772)(0.9) = 1600 \times 2.72^{0.1} = 1600 \times 1.1$
 $P_f = 1760$ 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.
Top Soil			0	5	
Shale & red rock			5	85	
Sand, shale & red rock			85	180	Damp @ 55'
Sand & shale			180	320	
Sand, shale & red rock			320	750	Damp @ 315'
Red rock, shale & sand			750	930	
Sand, shale & red rock			930	1170	1" stream @ 910'
Shale & sand			1170	1280	
Sand & shale			1280	1445	Gas ck @ 2329 No show
Sand & shale			1445	1640	
Sand & shale			1640	1710	Gas ck @ 3385 No show
Shale & sand			1710	1845	
Big Lime			1845	1905	Gas ck @ 4504 No show
Big Injun <i>Geo + FO</i>			1905	1980	
Sand & shale			1980	2420	Gas ck @ 4874 No show
Shale & Sand			2420	3660	
Shale & Sand			3660	4416	Gas ck @ 5185 No show
Riley			4416	4443	
Sand & shale			4443	5113.5	Gas ck @ Collars 8/10-1/2" w/water 17,600 cu.ft.
Alexander			5113.5	5127.5	
Sand & shale			5127.5	5800	
Sand & shale			5800	5993	
				T.D..	
				Brallier@	T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.
 Well Operator
 By: 
 Date: 10/8/85 Robert 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 coal, encountered in the drilling of a well."

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JUL 9 1985



- 1) Date: June 3, 19 85
 2) Operator's Well No. JK-1213
 3) API Well No. 47 -017-3451
 State County Permit

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

OIL & GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

DEPT. OF MINES

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 965' Watershed: Hugle Run
 District: Central County: Doddridge Quadrangle: West Union 7.5'
 6) WELL OPERATOR J & J Enterprises, Inc. 427 7) DESIGNATED AGENT Richard Reddecliff
 Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 24150 Buckhannon, WV 26201
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Mike Underwood Name S.W. Jack Drilling Co.
 Address Rt. 2 Box 114 Address P.O. Box 48
Salem, WV 26426 Buckhannon, WV 26201
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Rhine Street 437
 12) Estimated depth of completed well, 5995' feet
 13) Approximate trata depths: Fresh, 130' feet; salt, N/A feet.
 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4	H-40	42	X		20' 150'	150'	0 Sacks	NEAT
Fresh water	8 5/8	ERW	23	X		1565'	1565'	To Surface	
Coal	8 5/8	ERW	23	X		1565'	1565'	To Surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5995'	5945'	300 Sacks	Depths set
Tubing								or as required by rule 15-01	
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3451 Date 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 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: <input checked="" type="checkbox"/>	Agent: <u>AB</u>	Plat: <u>MHJ</u>	Casing: <u>MHJ</u>	Fee: <u>2002</u>
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K. Baer

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.