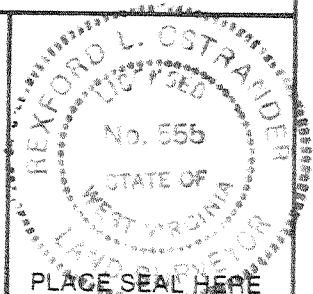


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 346.01
 DRAWING NO. 85-37
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot Elev. - 1625'
NW of Location.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES
 (SIGNED) Rexford L. Ostrander
 R.P.E. Buckhannon, WV L.L.S. 555



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE 22 July, 19 85
 OPERATOR'S WELL NO. J-1232
 API WELL NO. 47-091-0515

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1568' WATER SHED Swamp Run
 DISTRICT Knottsville COUNTY Taylor
 QUADRANGLE Thornton 638 122 5004
 SURFACE OWNER Robert A. and Shirley A. Rosier ACREAGE 74.01
 OIL & GAS ROYALTY OWNER R.A. & S.A. Rosier LEASE ACREAGE 134
 LEASE NO. J-1907

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Haverly 427 ESTIMATED DEPTH 5900'
 WELL OPERATOR J&J ENTERPRISES, INC. DESIGNATED AGENT Richard Reddecliff
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

AUG 19 1985

FORM TV-6 (8-78) HT. HALL

COUNTY NAME PERMIT

V-35
ev 8-81)

RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS



Date January 8, 1986
Operator's _____
Well No. J-1232
Farm Rosier
API No. 47 - 091 - 0515

State of West Virginia
Department of Mines
Oil and Gas Division

JAN 9 1986

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: 1568 Watershed Swamp Run
District: Knottsville County Taylor Quadrangle Thornton

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 Robert & Shirley Rosier
ADDRESS Rt. # 1, Grafton, WV 26354
MINERAL RIGHTS OWNER Same as surface
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Donald Ellis
ADDRESS 2604 Crab Apple Lane Fairmont, WV 26554
PERMIT ISSUED 8/13/85
DRILLING COMMENCED 12/16/85
DRILLING COMPLETED 12/21/85
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"	31	0	0 sks.
9 5/8			
8 5/8	1178.75	1178.75	280 sks.
7			
5 1/2			
4 1/2	5232.50	5232.50	315 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Haverty Depth 5600-90 feet
Depth of completed well 5990 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 50,550,1040 feet; Salt 0 feet
Coal seam depths: 535-40,620-23 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Benson Pay zone depth 4477-80 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Combined Final open flow 947 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1700 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation 3rd Elk, & Riley Pay zone depth 5100-03 4263-71 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

JAN 21 1986

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

Benson: Perforations: 4477-80 (12 holes)
Fracturing: 400 sks. 20/40 sand: 500 gal. acid: 375 Bbls. fluid.
3rd Elk: Perforations: 5100-03 (12 holes)
Fracturing: 380 sks. 20/40 sand: 500 gal. acid: 481 Bbls. fluid.
Riley: Perforations: 4263-65 (8 holes) 4270-71 (4 holes)
Fracturing: 300 sks. 20/40 sand: 500 gal. acid: 335 Bbls. fluid.

BOTTOM HOLE PRESSURE $P_f = P_{we} \frac{XGLS}{1}$

$$t = 60 + (5232 \times 0.0075) + 459.7 = 559 \quad X = \frac{1}{53.34} = \frac{1}{53.34(559)} = \frac{1}{29817} = 0.0000335 \quad P_f = (1700)(2.72)$$

$$(0.0000335)(0.670)(4683)(0.9) \quad P_f = (1700)(2.72)(0.0946) = (1700)(1.099)$$

Pf=1869 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all free gas and salt water, coal, oil and gas
KB & Ground Level			0	10	
Soil & shale			10	30	½" @ 50'
Sand & shale			30	320	
White sand & shale			320	415	½" @ 550'
Sand & shale			415	535	
Coal			535	540	½" @ 1010'
White sand & shale			540	620	
Coal			620	623	Gas ck @ 1735 No show
Sand & shale			623	690	
Sand & shale			690	850	Gas ck @ 3286 No show
Shale & sand			850	1000	
Sand, shale & red rock			1000	1285	Gas ck @ 3445 No show
Sand & shale			1285	1370	Gas ck @ 3917 NO show
Little Lime			1370	1400	
Sand & shale			1400	1410	Gas ck @ 4330 4/10-1" w/water
Big Lime			1410	1500	21.06 cu.ft.
Injun <i>GBR</i>			1500	1600	
Sand & shale			1600	3140	Gas ck @ 4549 48/10-1" w/water
Sand & shale			3140	4263	73.03 cu.ft.
Riley			4263	4271	
Sand & shale			4271	4477	Gas ck @ 4738 50/10-1" w/water
Benson			4477	4480	74.53 cu.ft.
Sand & shale			4480	4655	
1st Elk			4655	4690	Gas ck @ 5022 20/10-1" w/water
Sand & shale			4690	4855	47.13 cu.ft.
2nd Elk			4855	5000	
Sand & shale			5000	5100	Gas ck @ 5496 20/10-1" w/water
3rd Elk			5100	5103	47.13 cu.ft.
Sand & shale			5103	5600	
Haverty			5600	5690	Gas ck @ drill collars 16/10-1"
Sand & shale			5690	5990	w/water
					T.D. 42.16 cu.ft.
					<i>Brillier @ T.D.</i>

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By: *Daniel F. Stark*

Date: 1/8/85

Daniel F. Stark-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

7/85 RECEIVED JUL 26 1985



1) Date: 22 July, 19 85
 2) Operator's Well No. J-1232
 3) API Well No. 47 091 -0515
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas X
 B (If "Gas", Production X / Underground storage / Deep / Shallow X)
- 5) LOCATION: Elevation: 1568' Watershed: Swamp Run
 District: Knottsville County: Taylor Quadrangle: Thornton
- 6) WELL OPERATOR J&J Enterprises, CODE: 24150 7) DESIGNATED AGENT Richard Reddecliff
 Address PO Box 48 Inc. 427 Address PO Box 48
 Buckhannon, WV 26201 Buckhannon, WV 26201
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Donald Ellis Name SW Jack Drilling Co.
 Address 2604 Crab Apple Lane Address PO Box 48
 Fairmont, WV 26554 Buckhannon, WV 26201
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Haverty 437
- 12) Estimated depth of completed well, 5900 feet
 13) Approximate trata depths: Fresh, 65 feet; salt, 0 feet.
 14) Approximate coal seam depths: 100 to 450 Is coal being mined in the area? Yes / No XX
- 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	113/4	H-40	42	X		30	0	0 sks	Kinds
Fresh water	85/8	ERW	23	X		1268	1268	to surface	as req. by
Coal	85/8	ERW	23	X		1268	1268	to surface	Sizes rule 15.05
Intermediate									
Production	4.5	J-55	10.5	X		5850	5850	450 sks	Depths set as req. by rule 15.01
Tubing									
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-091-0515 Date August 13 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 August 13, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: AP	Plat: MW-MW	Casing: MW-MW	Fee: 2018	WPCP: MW	S&E: MW	Other:
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[Signature]
 Director, Division of Oil and Gas

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