

LATITUDE 39° 25' 00"

LONGITUDE 80° 40' 00"

# N. W. THOMAS, hrs. LEASE WELL NO. J - 830

5

RIGGINS RUN  
CENTERLINE OF ROAD

PRATT

30" WHITE OAK

N 89 - 24 E

1783.83'

N 22-00 E  
1081.28'

N 56 - 34 W

1680.21'

N 6 - 45 E  
846.45'

## 50 ACRES ±

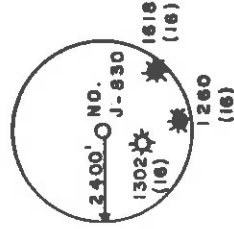
WELL NO. J - 830

N 86 W 640.2'

N 65 - 45 W 828.3'

S 49 W 495'

GLASPELL



NORTH

FILE NO. 12-33  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB  
 ELEV. 1255'

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) Gregory A. Smith  
 R.P.E. L.L.S. 677

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 851' WATER SHED RIGGINS RUN  
 DISTRICT McCLELLAN COUNTY DODDRIDGE  
 QUADRANGLE CENTER POINT 7.5' ACRES 4151 WCA  
 SURFACE OWNER DELIN RITTER  
 OIL & GAS ROYALTY OWNER N. W. THOMAS, hrs. LEASE ACREAGE 50

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 ALEXANDER ESTIMATED DEPTH 5050'  
 WELL OPERATOR J.S. JENTERPRISES, INC. DESIGNATED AGENT RICHARD M. REDDECLIFF  
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48  
BUCKHANNON, WV 26201 BUCKHANNON, WV 26201

APR 3 1984

PLACE SEAL HERE

DATE OCTOBER 17, 19 83  
 OPERATOR'S WELL NO. J - 830  
 API WELL NO. 47 - 017 - 3277  
 STATE WV COUNTY PUTNAM PERMIT \_\_\_\_\_

6-6 Smithson Hunt-Sedalia (99)

**RECEIVED**

SEP 10 1984

OIL & GAS DIVISION

**DEPT. OF MINES**



State of West Virginia

Department of Mines

Oil and Gas Division

Date September 7, 1984

Operator's

Well No. JK-830

Farm Delia Ritter

API No. 47 - 017 - 3277

**WELL OPERATOR'S REPORT**

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 851 Watershed Riggins Run  
District: McClellan County Doddridge Quadrangle Center Point 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 Delia Ritter  
ADDRESS Rt. # 2, Box 222, West Union, WV 26456  
MINERAL RIGHTS OWNER Pearl J. Shinn, Atty.in fact  
ADDRESS 819 27th St. Vienna, WV 26105  
OIL AND GAS INSPECTOR FOR THIS WORK Mike  
Rt. # 2, Box 114  
Underwood ADDRESS Salem, WV 26426  
PERMIT ISSUED 12/22/83  
DRILLING COMMENCED 7/23/84  
DRILLING COMPLETED 7/30/84

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30	0	0 sks.
9 5/8			
8 5/8	1220.65	1220.65	300 sks.
7			
5 1/2			
4 1/2	5051.30	5051.30	125 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5275-5350 feet  
Depth of completed well 5642 feet Rotary x / Cable Tools  
Water strata depths: Fresh 140,1300 feet; Salt 0 feet  
Coal seam depths: None Is coal being mined in the area? No

**OPEN FLOW DATA**

Producing formation Benson Pay zone depth 4953-55 feet  
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d  
Final open flow 133 Mcf/d Final open flow Bbl/d  
Time of open flow between initial and final tests 4 hours

Static rock pressure 1525 psig (surface measurement) after 96 hours shut in  
(If applicable due to multiple completion--)

Second producing formation  Pay zone depth  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

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

Benson: Perforations: 4953-55 (9 holes)  
Fracturing: 350 sks. 20/40 sand: 490 Bbls. Fluid.

BOTTOM HOLE PRESSURE PF=Pwe XGLS

$$t=60 + (0.0075 \times 5051) + 459.7 = 558 \quad X=\frac{53.35 \times 558}{29769} = 0.000033 \quad PF=1525 \times 2.72 \quad (0.000033) \\ (0.648) (4954) (0.9) = 1525 \times 2.72 \quad 0.095 = 1525 \times 1.1$$

Pf= 1678 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Conductor			0	35	
Red rock, shale & sand			35	70	Including indication of all fresh and salt water, coal, oil and gas
Red rock, shale & sand			70	225	3/4" stream @ 140
Shale & sand			225	265	Damp @ 1300
Sandy shale & sand			265	310	1" stream @ 1316
Sandy lime			310	345	
Sandy shale & Red rock			345	440	
Sand & shale			440	980	Gas ck @ 2100 No show
Red rock & shale			980	1045	
Sandy shale & sand			1045	1290	Gas ck @ 3305 No show
Sand & shale			1290	1330	
Black shale			1330	1350	
Sand & shale			1350	1630	Gas ck @ Drill collars 10/10-1" w water
Sand & shale			1630	1775	
Little Lime			1775	1800	
White sand			1800	1825	
Big Lime			1825	1910	23,314 cu.ft.
Injun			1910	2025	
Sand & shale			2025	2385	
Sand & shale			2385	3220	
Sand & shale			3220	4953	
Benson			4953	4955	
Sand & shale			4955	5275	
Alexander			5275	5350	
Sand & shale			5350	5642	
			5642		T.D.

(Attach separate sheets as necessary)

J&J Enterprises, Inc.

Well Operator

By:  Robert Dahlin - Geologist

Date: 9/7/84

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



1) Date: November 30, 19 83  
 2) Operator's Well No. J-830  
 3) API Well No. 47 - 017 - 3277  
 State County Permit

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

4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Deep  Shallow   
 5) LOCATION: Elevation: 851 Watershed: Riggins Run  
 District: McClellan County: Doddridge Quadrangle: Center Point 7.5  
 6) WELL OPERATOR: J&J Enterprises, Inc. 7) DESIGNATED AGENT: Richard Reddecliff  
 Address: P.O. Box 48 P.O. Box 48  
 Buckhannon, WV 26201  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name: Mike Underwood  
 Address: Rt. # 2, Box 114 P.O. Box 48  
 Salem, WV 26426 Buckhannon, WV 26201

10) PROPOSED WELL WORK: Drill  deeper  Plug off old formation  Redrill  Stimulate   
 Other physical change in well (specify) Alexander  
 11) GEOLOGICAL TARGET FORMATION, 5050 feet  
 12) Estimated depth of completed well, 150 feet; salt, 0 feet  
 13) Approximate trata depths: Fresh, 200 feet; salt, 0 feet  
 14) Approximate coal seam depths: Is coal being mined in the area? Yes

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OIL & GAS DIVISION  
 DEPT. OF MINES

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS	CEMENT-FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.			
Conductor	11 3/4	H-40	42	For drilling 30	Left in well 0	0 sks.
Fresh water	8 5/8	ERW	23	1300-951	1300-951	To surface
Coal	8 5/8	ERW	23	1300-	1300-	To surface
Intermediate						
Production	4 1/2	J-55	10.5	5000	5000	225 sks.
Tubing						or as reg by rule
Liners						Perforations: 15.01
						Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-017-3277 Date December 22, 1983

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 December 22, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
	MA	MA	MA	1374

*[Handwritten Signature]*

NOTE: Keep one copy of this permit posted at the drilling location. Administrator, Office of Oil and Gas

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

