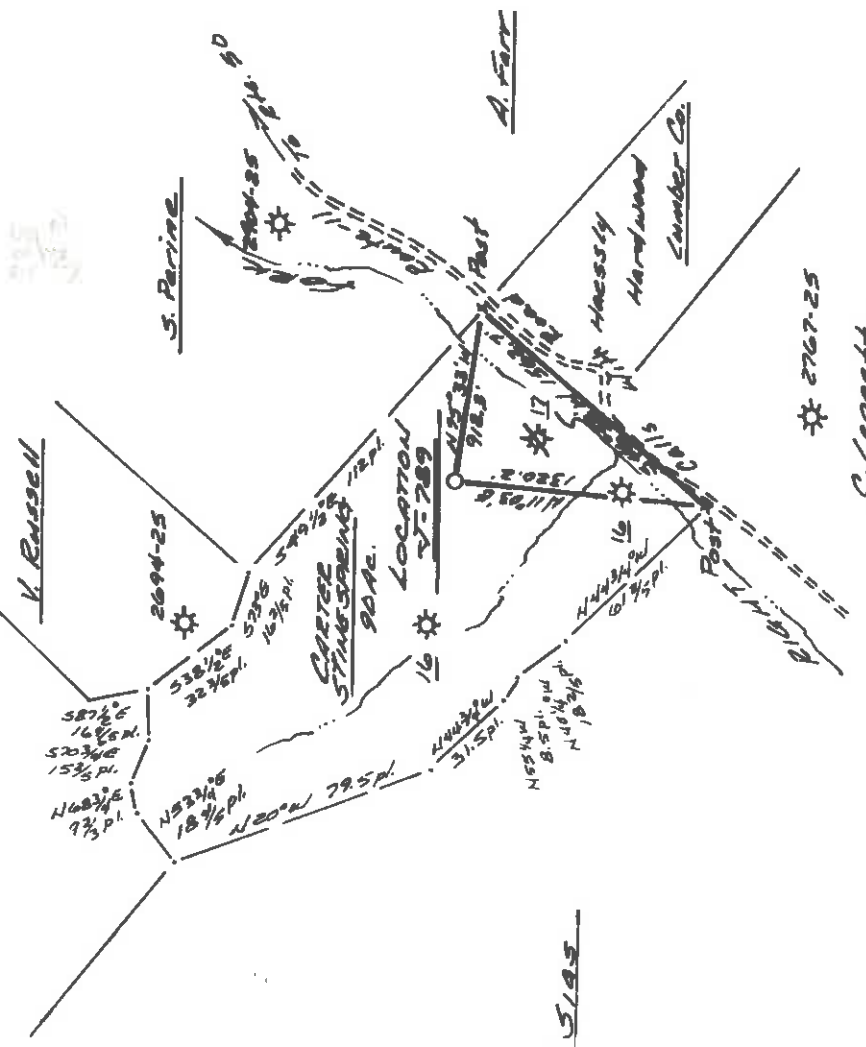


NORTH

0.555  
3.42W

0.555  
1.17W

Moses Smith Jr.



FILE NO. 346.01  
 DRAWING NO. 83-51  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION BM-88  
N.E. of Locaton.

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) Clyde A. Dutton  
 R.P.E. Buckhannon, W.Va. I.L.S. 558

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE 50 Day, 19 83  
 OPERATOR'S WELL NO. V-289  
 API WELL NO. 47-017-3243



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1041' WATER SHED Eight Fork  
 DISTRICT West Union COUNTY Dodridge  
 QUADRANGLE Oxford Holbrook 15' NE  
 SURFACE OWNER Carter Springs ACREAGE 89.2  
 OIL & GAS ROYALTY OWNER Carter Springs LEASE ACREAGE 89.2

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 LEASE NO. JT-1463

PLUG AND ABANDON  CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Alexander ESTIMATED DEPTH 5500  
 WELL OPERATOR J.V. Enterprises, Inc. DESIGNATED AGENT Richard Rosecrutt  
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48  
Buckhannon, W.Va. 26201 Buckhannon W.Va. 26201

6-6 Straight Fork-Bluestone Creek (133)

PLACE SEAL HERE



Date November 29, 1983  
 Operator's Well No. J-789  
 State of West Virginia  
 Department of Mines  
 Oil and Gas Division  
 Farm Charter Stinespring  
 API No. 47 - 017 - 3243

WELL OPERATOR'S REPORT  
OF

**RECEIVED**

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE DEC 1 - 1983

OIL & GAS DIVISION

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

LOCATION: Elevation: 1041 Watershed Right Fork  
 District: West Union County Doddridge Quadrangle Oxford

COMPANY J&J Enterprises, Inc.  
 ADDRESS P.O. Box 48, Buckhannon, WV 26201  
 DESIGNATED AGENT Richard Reddacliff  
 ADDRESS Same  
 SURFACE OWNER Charter Stinespring  
 ADDRESS Rt. # 1, Greenwood, WV 26360  
 MINERAL RIGHTS OWNER Same

ADDRESS \_\_\_\_\_  
 OIL AND GAS INSPECTOR FOR THIS WORK Stephen  
Casey ADDRESS Rt. 2, Box 232-D, Jane Lew, WV

PERMIT ISSUED 12/15/82  
 DRILLING COMMENCED 10/22/83  
 DRILLING COMPLETED 10/26/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VEREAL 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	1417.35	1417.35	335 sks.
7			
5 1/2			
4 1/2	5273.25	5273.25	525 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5109-77 feet  
 Depth of completed well 5299 feet Rotary x / Cable Tools \_\_\_\_\_  
 Water strata depth: Fresh 160 feet; Salt 0 feet  
 Coal seam depths: 4-8 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5109-77 feet  
 Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 1,905 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests 4 hours  
 Static rock pressure 1675 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

(Continues on reverse side)

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

Alexander: perfs: 5109-39 (11 holes Total)  
5112-5177

Frac: N2 - Foam frac: 500 gal. Acid: 670 Bbls. fluid.

BOTTOM HOLE PRESSURE Pf=PweXGLS

$$t=60 + (0.0075 \times 52.73) + (459.7) = 559 \quad X = \frac{1}{53.35} \times \frac{1}{559} = \frac{1}{29836} = 0.0000335 \quad Pf=1675 \times 2.72 (0.000033$$

$$(0.698) (5143) (0.9) = 1675 \times 272 \quad 0.11 = 1675 \times 1.11$$

Pf=1867 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
Fill			0	4	
Coal			4	8	4" stream @ 160'
Sand, shale & red rock			8	180	Gas ck @ 1794 50/10-1" w/water
Sand, shale & red rock			180	285	53,251 cu.ft.
Red rock, sand & shale			285	515	
Sand, shale & red rock			515	800	Gas ck @ 2262 10/10-2" w/water
Sand & shale			800	1075	133,000 cu.ft.
Sand & shale			1075	1280	
Sand & shale			1280	1365	Gas ck @ 3379 24/10-1" w/water
Salt sand & shale			1365	1455	35,593 cu.ft.
White sand & shale			1455	1820	
Sand & shale			1820	1880	Gas ck @ 3840 40/10-1" w/water
Big Lime			1880	1910	47,629 cu.ft.
Lime & shale			1910	1960	
Big Injun			1960	2115	
Sand & shale			2115	4820	Gas ck @ T.D. 6/10-2" w/water
Sand & shale			4820	5109	103,000 cu.ft.
Sand & shale			5109	5177	
Alexander			5177	<u>5299</u>	
Sand & shale				T.D.	

(Attach separate sheets as necessary)

By: Bob Bellini  
Well Operator  
J&J Enterprises, Inc.

Date: 11/29/83

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 intervals, encountered in the drilling of a well."



1) Date: July 15, 1983  
 2) Operator's Well No. J-789  
 3) API Well No. 47 - 017 - 3243  
 State County Permit

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

DRILLING CONTRACTOR:

S.W. Jack Drilling Company  
 Box 48  
 Buckhannon, WV 26201

- 4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Deep  Shallow   
 Elevation: 1041 Watershed: Right Fork  
 District: West Union County: Doddridge  
 5) LOCATION: 11) DESIGNATED AGENT Richard Reddecliff  
 Address P.O. Box 48 P.O. Box 48  
 Buckhannon, WV 26201  
 6) WELL OPERATOR I&J Enterprises, Inc.  
 Address P.O. Box 48 Buckhannon, WV 26201  
 7) OIL & GAS ROYALTY OWNER Carter Stinespring  
 Address Rt. # 1  
 Greenwood, WV 26360  
 Acreage 89.2  
 8) SURFACE OWNER Carter Stinespring  
 Address Rt. # 1  
 Greenwood, WV 26360  
 Acreage 89.2  
 9) FIELD SALE (IF MADE) TO: Unknown  
 Address  
 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Stephen Casey  
 Address Rt. 2, Box 232-D  
 Jane Lew, WV 26378  
 15) PROPOSED WORK: Drill  Drill deeper   
 Plug off old formation  Redrill  Fracture or stimulate  11/13/1983  
 Other physical change in well (specify) Alexander  
 16) GEOLOGICAL TARGET FORMATION, Alexander  
 17) Estimated depth of completed well, 5500 feet  
 18) Approximate water strata depths: Fresh, 90 feet; salt, 0 feet;  
 19) Approximate coal seam depths: 85 Is coal being mined in the area? Yes  No

20) 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		
Conductor	11 3/4	H-40	42	X		30	
Fresh water	8 5/8	ERW	23	X		1200	0 SKS.
Coal	8 5/8	ERW	23	X		1200	TO surface
Intermediate						1200	TO surface
Production	4 1/2	J-55	10.5	X		5450	300 SKS.
Tubing							Depth set <i>at 4111g</i>
Liners							<i>at 15201</i>
							Perforations: Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No   
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.  
 Notary *John D. Campbell*  
 My Commission Expires *October 16, 1989*

Signed: \_\_\_\_\_  
 Its: Designated Agent

Permit No. 47-017-3243 OFFICE USE ONLY  
 DRILLING PERMIT August 31, 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 if the proper district oil and gas inspector 24 hours before actual permitted work has commenced.  
 Permit expires August 31, 1985

Bond:	Agent: <i>[Signature]</i>	Plat: <i>[Signature]</i>	Casing Fee: <i>[Signature]</i>
			1268

unless drilling is commenced prior to that date and prosecuted with due diligence.  
 Administrator, Office of Oil and Gas

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

