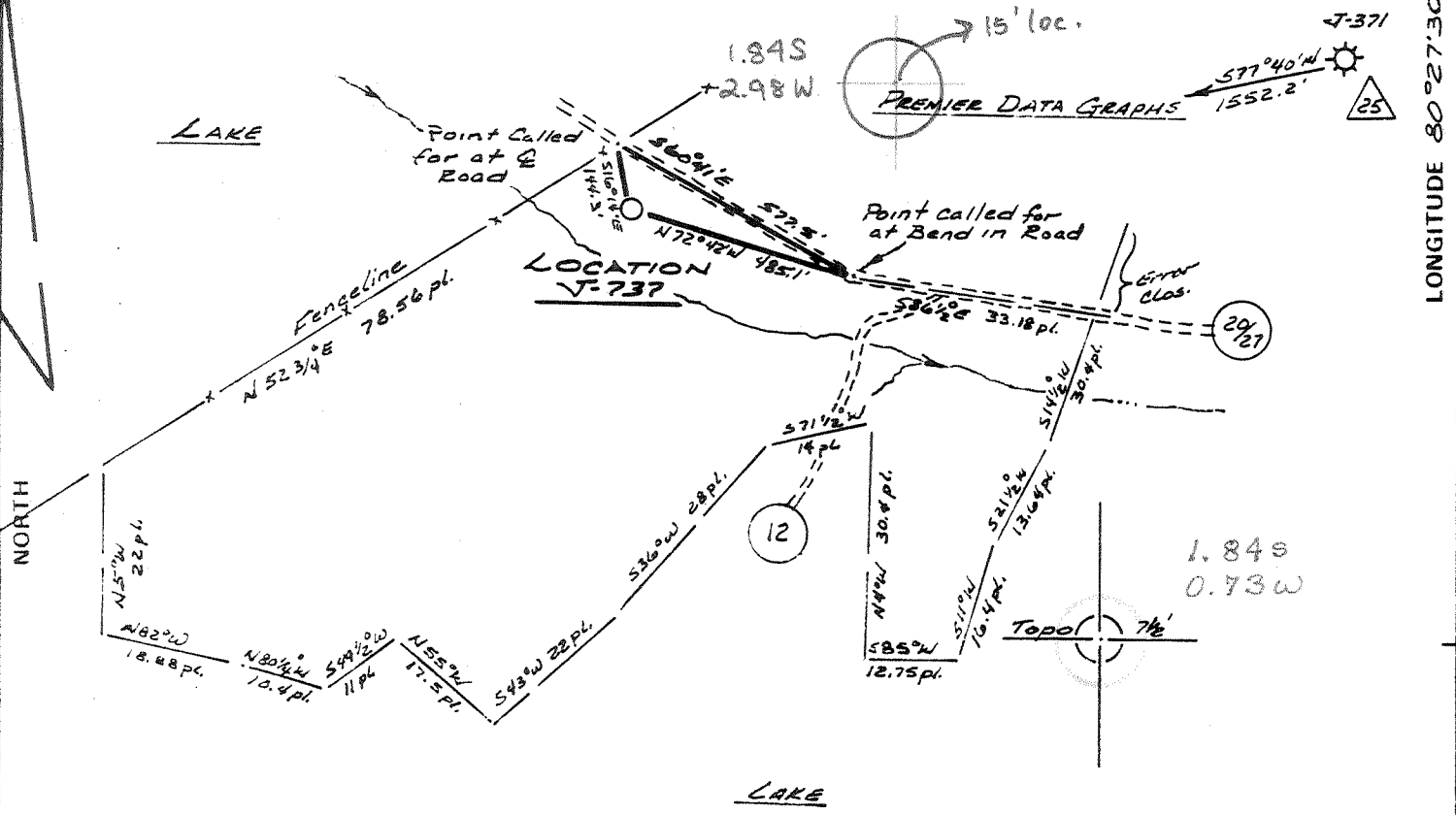


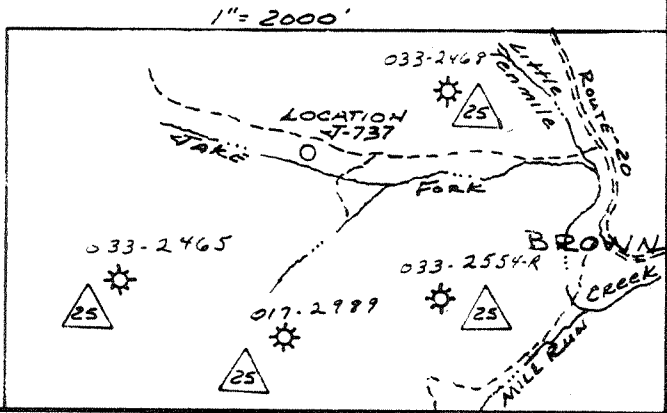
LATITUDE 39°25'00"

3,750'

LONGITUDE 80°27'30"
9,700' 50°25'15"



2.25
2.13
2.98



FILE NO. 346.01
DRAWING NO. 82-24
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1' in 200'
PROVEN SOURCE OF ELEVATION Spot Elev. 1075'
600' East 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) Rayford L. Ostrander
R.P.E. _____ L.L.S. 555
Buckhannon, W. Va.

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE November 16, 19 82
OPERATOR'S WELL NO. J-737
API WELL NO. _____
47 - 033 - 2858
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1048' WATER SHED Jake Run
DISTRICT Sardis COUNTY Harrison
QUADRANGLE Wallace Clarksburg 15' WC
SURFACE OWNER EARL LAKE ACREAGE 37 1/2
OIL & GAS ROYALTY OWNER Dessel Yeater LEASE ACREAGE 37 1/2
LEASE NO. _____
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
STIMULATE X 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 5700 Brown- Lumberport NOV 29 1982
WELL OPERATOR JET ENTERPRISES, INC. DESIGNATED AGENT RICHARD REDDEGUEFF
ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201

SEP 06 1982

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 / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)

LOCATION: Elevation: 1048 Watershed: Jake Run
District: Sardis County: Harrison Quadrangle: Wallace

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

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON 11/19, 1982 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well, 5559 feet Rotary / Cable Tools _____
Water strata depth: Fresh, 70 feet; salt, None feet.
Coal seam depths: 110-13, 550-53, 865-68 Is coal being mined in the area? No
Work was commenced 11/22, 1982, and completed 12/1, 1982

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		80	0	0 sks.	Winds
Fresh water	85/8	ERW	23	x		1593.20	1593.20	100 sks.	
Coal	85/8	ERW	23	x		1593.20	1593.20	100 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5020.75	5020.75	735 sks.	Beams set
Tubing									
Liners									Perforations:
									Top Bottom
									3478 3480
									3584 3586
									3794 3808
									4927 4936

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4927-36
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 475 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 14 1/2 hours
Static rock pressure, 1151 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Balltown & Speechley Pay zone depth 3478-80
Gas: Initial open flow, 475 Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 14 1/2 hours

Bottom Hole Pressure Static rock pressure, 1151 psig (surface measurement) after 72 hours shut in
Pf=PweXGLS 1 1
50+(0.0075x502)+459.7=557 X=53.35 x 557 =29735 =0.0000336 Pf=1151x2.72 (0.0000336)(0.607)
1207(0.5) =1151 x 2.72 ^{0.077} =1151 x 1.08

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

Benson: Perforations: 4927-36 (12 holes)

Fracturing: 300 sks. 20/40 sand: 300 Bbls. sand laden fluid: 450 Bbls. fluid: 95 lbs. ferechek

Balltown & Spechley: Perforations: 3478-3586 (8 Holes) 3794-3808 (12 holes)

Fracturing: 600 sks. 20/40 sand: 1000 gal. acid: 560 Bbls. sand laden fluid

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Fill			0	50	3 1/2" stream @ 70' Fresh water
White sand, red rock & shale			50	110	
Coal			110	113	Gas ck @ 1920 20/10-1" w/water
Gray sand & shale			113	180	173,000 cu.ft.
Sand & shale			180	550	Gas ck @ 2114 20/10-2" w/water
Coal			550	553	139,000 cu.ft.
Sand			553	575	Gas ck @ 2329 20/10-2" w/water
Coal			575	580	139,000 cu.ft.
Sand, shale & red rock			580	865	
Coal			865	868	Gas ck @ 2639 48/10-2" w/water
Sand, shale & red rock			868	970	292,000 cu.ft.
Coal			970	973	
Sand, shale & gray sand			973	1100	Gas ck @ 3318 30/10-2" w/water
Sandy shale & gray sand			1100	1360	231,000 cu.ft.
Sandy shale & white sand			1360	1635	
Sandy shale & sand			1635	1805	Gas ck @ 3811 88/10-2" w/water
Sandy shale			1805	1836	396,000 cu.ft.
Big Lime			1836	1930	
Big Injun			1930	1990	Gas ck @ 4700 30/10-2" w/water
Sandy shale & sand			1990	2510	
Sand & sandy shale			2510	3478	231,000 cu.ft.
Balltown & spechley			3478	3808	
Sandy shale			3808	4147	Gas ck @ 5005 34/10-2" w/water
Sandy shale, sand & shale			4147	4920	245,000 cu.ft.
Benson			4920	4936	
Sandy shale			4936	5212	Coal seams @ 110-13,550-53,865-68
Alexander			5212	5260	970-73
Sandy shale			5260	5559	
				T.D.	

(Attach separate sheets as complete as necessary)

J&J Enterprises, Inc.

Well Operator

By
and

Richard Reddecliff

Designated Agent

NOTE: Regulation 2.02(d) 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."



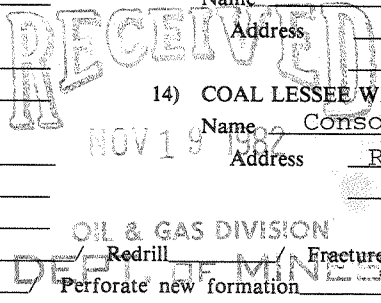
1) Date: November 18, 1982
 2) Operator's Well No. 7-737
 3) API Well No. 47 933 1052
 State _____ County _____ Permit _____

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1048 Watershed: Jacks Run
 District: Hamlin County: Harrison Quadrangle: Wallace
- 6) WELL OPERATOR J&J Enterprises, Inc. 11) DESIGNATED AGENT Richard K. Padonick
 Address P.O. Box 48 Address P.O. Box 48
Wuchanan, WV 26201 Wuchanan, WV 26201
- 7) OIL & GAS ROYALTY OWNER Earl Lake / Dessel Yeater 12) COAL OPERATOR Kone
 Address Rt. 1, Box 365 / 639 Washington Ave. Address _____
Wallace, WV / Clarkshurg, WV 26301
- 8) SURFACE OWNER Earl Lake & Faye Lake 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rt. 1, Box 365 Name Willie G. Petrick
Wallace, WV 26448 Address Union National Bank Plaza
Clarkshurg, WV 26301
- 9) FIELD SALE (IF MADE) TO:
 Address _____ Name _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Stephen Casey Name Consolidation Coal CO.
 Address Rt. 1, Box 233-D Address Rts. 48 & 119
Jane Lick, WV 26270 Morgantown, WV 26505
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Alexander
- 17) Estimated depth of completed well, 5700 feet
- 18) Approximate water strata depths: Fresh, 200 feet; salt, 1700 feet.
- 19) Approximate coal seam depths: 120, 300, 670 Is coal being mined in the area? Yes X / 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	For drilling	Left in well		
Conductor	11 3/4	R-40	42	X		30	0	0 sks.	Kinds
Fresh water	8 5/8	SRW	33	X		1500	1500	To surface	
Coal	8 5/8	SRW	33	X		1500	1500	To surface	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5650	5650	450 SRW.	Depths set
Tubing									
Liners									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.
- 23) Required Copies (See reverse side.)
- 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: _____
 My Commission Expires _____

Signed: _____
 Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-933-1052 Date November 18 1982

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. 10) 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.)

Permit expires July 19, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whichever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

.....

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19_____

By _____

Its _____