

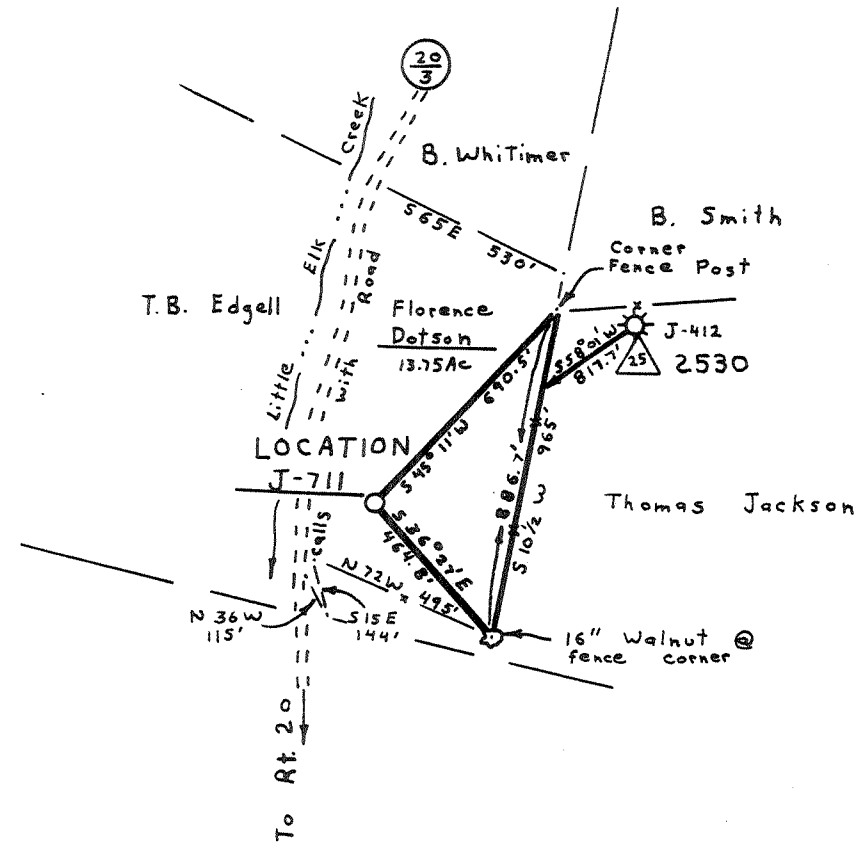
M.L. 7/2/82

Plot Card GSD

300'

LATITUDE 39° 27' 30"

LONGITUDE 80° 27' 30"



2.045
0.06W

TOP
7 1/2 min.

39 25 45
80 27 35



△ well status

FILE NO. 346.01
 DRAWING NO. 82-15
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION Spot Elev 1089
Rd. Jct. S 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) Royford S. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, W. Va.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 23 June, 1982
 OPERATOR'S WELL NO. J-711
 API WELL NO. _____
47 - 033 - 2814
 STATE COUNTY PERMIT

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 1167 WATER SHED Little Elk Creek
 DISTRICT Sardis COUNTY Harrison
 QUADRANGLE Wallace Charlottesville 15' NW
 SURFACE OWNER Florence E. Dotson ACREAGE 31.5
 OIL & GAS ROYALTY OWNER Florence E. Dotson LEASE ACREAGE 13.75
 LEASE NO. F-10
 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 Garden ESTIMATED DEPTH 3000
 WELL OPERATOR J & J Enterprises Inc. DESIGNATED AGENT H.L. Barnett JUL 19 1982
 ADDRESS P.O. Box 48 ADDRESS P.O. Box 48
Buckhannon, W. Va. 26201 Buckhannon, W. Va. 26201

RECEIVED

Date: July 22, 1982

Operator's Well No. J-711

API Well No. 47-033-2814
State County Permit

JUL 26 1982

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

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: 1167 Watershed: Little Elk Creek
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett
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 7/11, 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: Gordon Depth 2893-97 feet
Depth of completed well, 3200 feet Rotary / Cable Tools
Water strata depth: Fresh, 110 feet; salt, 0 feet.
Coal seam depths 203-08 297-302 Is coal being mined in the area? No
332-337,705-709
Work was commenced 7/12, 1982, and completed 7/16, 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	11 ³ / ₄	H-40	42	x		25	25	0 sks.	Kinds
Fresh water	8 ⁵ / ₈	ERW	23	x		1323.55	1323.55		
Coal	8 ⁵ / ₈	ERW	23	x		1323.55	1323.55		Sizes
Intermediate									
Production	4 ¹ / ₂	J-55	10.5	x		3202.65	3202.65	140 sks.	Decans set
Tubing									
Liners									Perforations:
									Top Bottom
									2719 2721
									2755 2759
									2847 2850

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2893-97 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 198 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 600 psig (surface measurement) after 48 hours shut in
[If applicable use to multiple completion--]
Second producing formation Gordon Stray, 30ft & 50ft. Sand Pay zone depth 2847 2850 feet
Gas: Initial open flow, _____ 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, _____ hours

Bottom Hole Pressure Static rock pressure, _____ psig (surface measurement) after _____ hours shut in
Pf=pweXGLS
 $t=60+(0.0075 \times 3202)+459.7=544 = X=53.35 \times 544=29007 = 0.0000345 \text{ Pf}=600 \times 2.72 (0.0000345) (0.733 (2808) (0.9) =600 \times 2.72^{0.063} =600 \times 1.066=$
Pf= 640 psi

AUG 2 1982

08-78

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

Gordon: Perforations: 2893-97 (5 holes)

Gordon Stray: Perforations: 2847-50 (5 holes)

Fracturing: 10,000 lbs. 80/100 sand: 20,000 lbs. 20/40 sand: 500 gals. Acid
33 Bbls. fluid.

30' Sand: Perforations: 2755-59 (6 holes)

50' Sand: Perforations: 2719-21 (4 holes)

Fracturing: 10,000 lbs. 80/100 sand: 26,000 lbs. 20/40 sand: 500 gals. Acid:
48 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	
Sand & shale			5	30	
Sand & shale			30	203	Damp @ 91'
Coal			203	208	
Sand, shale & red rock			208	278	3/4" stream @ 110
Sand & shale			278	297	
Coal			297	302	Damp @ 1730'
Sand & shale			302	332	
Coal			332	337	
Sand, shale & red rock			337	412	
Sand, shale & red rock			412	705	
Coal			705	709	
Sand, shale & red rock			709	914	
Red rock, sand & shale			914	1049	
Shale, sand & red rock			1049	1210	
Sand & shale			1210	1634	
Sand & shale			1634	1960	
Little Lime			1960	1970	
Shale & sand			1970	1985	
Big Lime			1985	2070	
Injun Sand			2070	2162	
Shale			2162	2719	
50ft. Sand			2719	2721	
Shale			2721	2755	
30ft. Sand			2755	2759	
Shale			2759	2847	
Gordon Stray			2847	2850	
Shale			2850	2893	
Gordon			2893	2897	
Shale			2897	3200	
				TD	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.
Well Operator
By Peter Battles
Its Peter Battles Geologist

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."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-711
API Well No. 47 - 033 - 2814
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 1167 Watershed: Little Elk Creek
District: Sardis County: Harrison Quadrangle: Wallace 7.5

WELL OPERATOR J&J Enterprises Inc.
Address P.O.Box 48
Buckhannon W.V. 26201

DESIGNATED AGENT H.L. Barnett
Address P.O.Box 48
Buckhannon W.V..26201

OIL & GAS ROYALTY OWNER Florence E. Dotson
Address Rt.1 Box 394
Wallace W.V. 26448

COAL OPERATOR _____
Address _____

ACREAGE 31.5
SURFACE OWNER Florence E. Dotson
Address Rt.1 Box 394
Wallace W.V. 26448
ACREAGE 31.5

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Virginia Tetrick
Address Union National Center
Clarksburg W.V.

FIELD SALE (IF MADE) TO:
Name Consol.
Address 445 W. Main St.
Clarksburgh W.V.

Name _____
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Steve Casey
Address Rt. 2 Box 232-D
Jane Lew 26378

COAL LESSEE WITH DECLARATION ON RECORD:
Name Consol Coal Co.
Address Rt.s 48&119
Morgantown W.V.

RECEIVED

JUL 1 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated August 17, 1980, to the undersigned well operator from Florence Dotson

If said deed, lease, or other contract has been recorded:]
Recorded on August 26, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Lease - Book 1095 at page 180. A permit is requested as follows:

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

--planned as shown on the work order on the reverse side hereof.

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.

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.

PLEASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
115 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

MARKET

J&J Enterprises Inc.
Well Operator
By [Signature]
Its Geologist

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.
Address P.O. Box 48
Buckhannon W.V. 26201

GEOLOGICAL TARGET FORMATION, Gorden

Estimated depth of completed well, 3000 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 140 feet; salt, 1200 feet.

Approximate coal seam depths: 500' Is coal being mined in the area? Yes / No ✓

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	H40	42	X		30	0	0sks	Kinds
Fresh water	85/8	ERW	23			850	850	to surface	
Coal	85/8	ERW	23	X		850	850	to surface	Sizes
Intermediate									
Production	41/2	J55	9.5	X		2980	2980	200sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: 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 drilling within 200 feet of the proposed well.

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.
THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 3-9-83

BY [Signature]

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:

W A I V E R

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: June 30, 1982

Consolidation Coal Company
By [Signature]
Its [Signature]