

FILE NO. 81-894-F
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B.M. 1039, 7600'
SW. OF WELL SITE

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) John Robert Gales
 P.E. 5566 L.L.S. _____

PLACE SEAL HERE

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

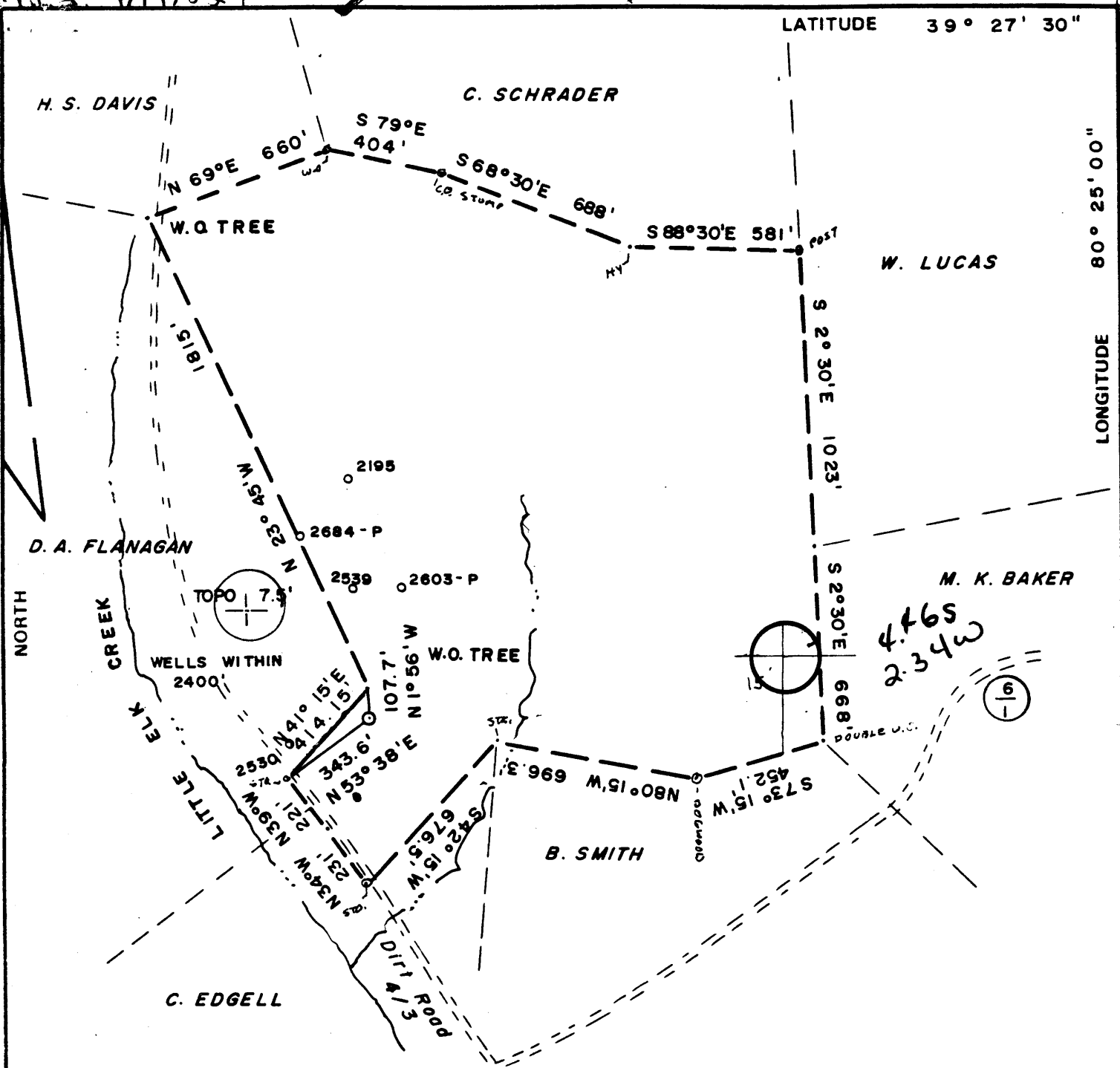


DATE JUNE 7, 1982
 OPERATOR'S WELL NO. J-658
 API WELL NO. 47-033-2812
 STATE COUNTY PERMIT

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 1400 WATER SHED LITTLE ELK CREEK
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE Clarksburg 15 NW
 SURFACE OWNER JAMES R. SCHRAF ACREAGE 86.54
 OIL & GAS ROYALTY OWNER THOMAS P. JACKSON LEASE ACREAGE 86.54
 LEASE NO. J&J-88
 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 5400'
 WELL OPERATOR J&J ENTERPRISES INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, W VA. 26201 BUCKHANNON, W VA. 26201

JUL 06 1982



LATITUDE 39° 27' 30"

LONGITUDE 80° 25' 00"

FILE NO. 81-894-E
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION ELEV. 1089 - Int. of 20/13 and 20/14, 5500' SOUTH OF WELL SITE

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) John Robert Hales
 R.P.E. 5566 L.L.S. _____

PLACE SEAL HERE

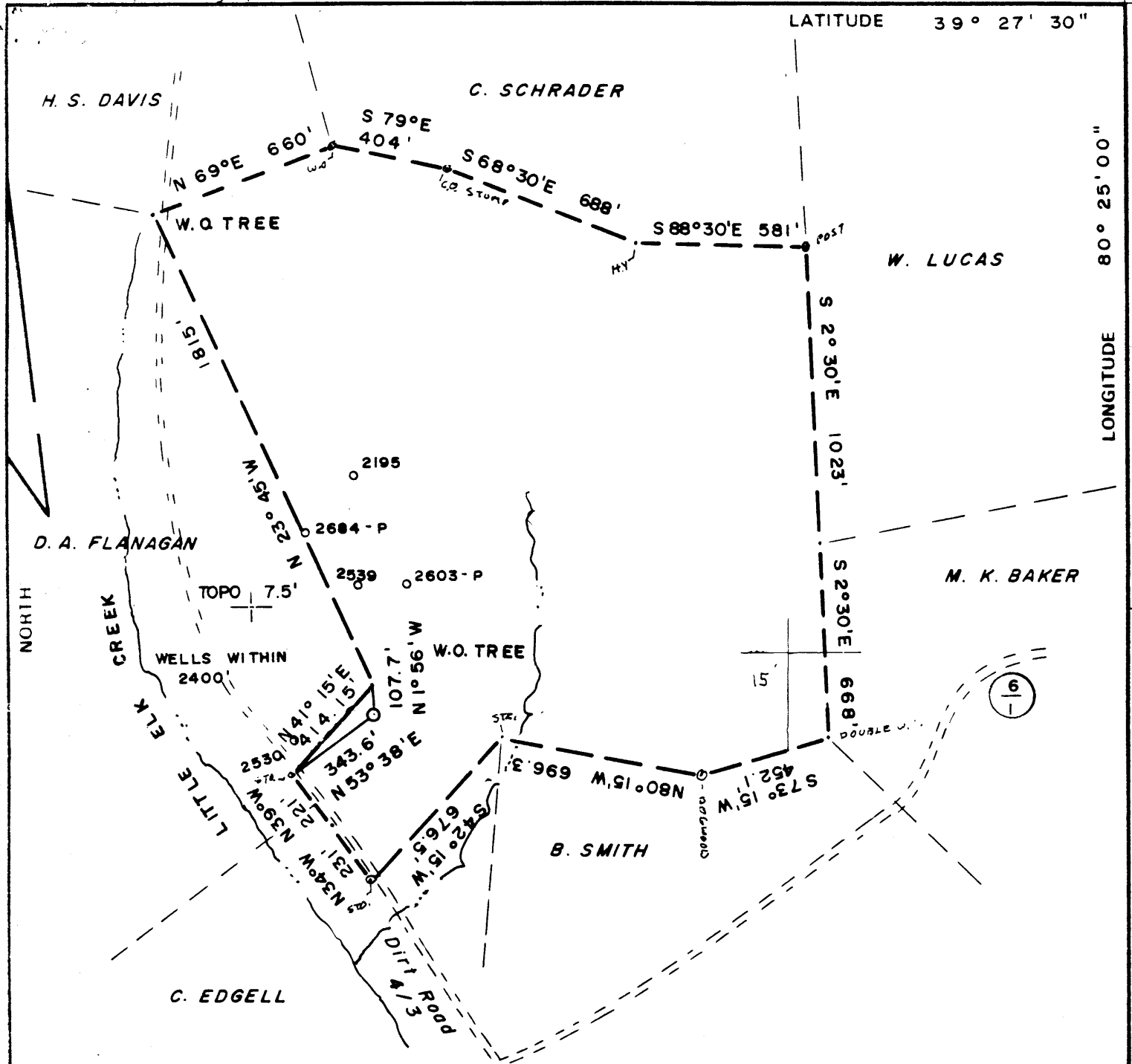
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 3-30- 1982
 OPERATOR'S WELL NO. J-658
 API WELL NO. 47-033-2787
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1280 WATER SHED LITTLE ELK CREEK
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE Clarkburg 151 NW
 SURFACE OWNER JAMES R. SCHRAF ACREAGE 86.54
 OIL & GAS ROYALTY OWNER THOMAS P. JACKSON LEASE ACREAGE 86.54
 LEASE NO. JJ-88
 PROPOSED WORK: DRILL X 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 BALLTOWN ESTIMATED DEPTH 4200
 WELL OPERATOR J & J ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT MAY 3 1982
 ADDRESS BOX 48 ADDRESS P.O. Box 48
BUCKHANNON, W.V. 26201 BUCKHANNON, WV 26201



FILE NO. 81 - 894 - E
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION ELEV. 1089 - Int. of 20/13 and 20/14, 5500' SOUTH OF WELL SITE

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) John Robert Giles
 R.P.E. 5566 L.L.S. _____

PLACE SEAL HERE

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



DATE 3-30- 1982
 OPERATOR'S WELL NO. J-658
 API WELL NO. 47-033-2787
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Cancelled
See: 033-2812

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1280 WATER SHED LITTLE ELK CREEK
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE
 SURFACE OWNER JAMES R. SCHRAF ACREAGE 86.54
 OIL & GAS ROYALTY OWNER THOMAS P. JACKSON LEASE ACREAGE 86.54
 LEASE NO. JJ-88
 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 BALLTOWN ESTIMATED DEPTH 4200
 WELL OPERATOR J & J ENTERPRISES INC DESIGNATED AGENT HARRY L. BARNETT
 ADDRESS BOX 48 ADDRESS P.O. Box 48
BUCKHANNON, W.V. 26201 BUCKHANNON, WV 26201

RECEIVED

Date: July 19, 1982

Operator's Well No. J-658

API Well No. 47 - 033 - 281
State County Perm

JUL 26 1982

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

WELL OPERATOR'S REPORT

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: 1400 Watershed: Little Elk Creek
 District: Sardis County: Harrison Quadrangle: Wallace

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 6/14, 1982 OIL & GAS INSPECTOR FOR THIS WORK:
 Name Stephen Casey
 Address Rt. 2, Box 232-D

Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Balltown Depth _____ feet
 Depth of completed well, _____ feet Rotary / Cable Tools
 Water strata depth: Fresh, 2025 feet; salt, 0 feet.
 Coal seam depths: 690-94 Is coal being mined in the area? No
 Work was commenced 6/26, 1982, and completed 6/30, 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		30	0	0 sks.	Rinds
Fresh water	8 ⁵ / ₈	ERW	23	x		1485.40	1485.40	390 sks.	
Coal	8 ⁵ / ₈	ERW	23	x		1485.40	1485.40	390 sks.	Sizes
Intermediate									
Production	4 ¹ / ₂	J-55	10.5	x		3239.88	3239.88	175 sks.	Decms set
Tubing									
Liners									Perforations:
									Top Bottom
									3225 3228
									3122 3168
									2994 3038
									2914 2916

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3225-28
 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, 4 hours
 Static rock pressure, 600 psig (surface measurement) after 96 hours shut in
 [If applicable due to multiple completion--]
 Second producing formation Gordon Stray, 30' & 50' Sand Pay zone depth 3122 3168
30 Ft. 2994 3038
50 Ft. 2914 2916
 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

$$t=60+(0.00075 \times 3240) + 459.7=544 \quad X=53.35 \times 544 = 29022 = 0.0000345 \quad Pf=600 \times 2.72 (0.0000345) (0.3071) (0.9) = 600 \times 2.72^{0.086} = 600 \times 1.09 =$$

Pf= 654 psi

AUG 2 1982

08-78]

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

Gordon: 3225-28 (2 holes)

Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand : 300 lbs. acid:500 Bbls. fluid.

Gordon Stray: 3122-68 (4 holes)

Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 300 lbs. acid:500 Bbls. fluid.

30 ft. Sand: 2994-3038 (4 holes)

Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 300 lbs. acid: 500 Bbls. fluid.

50 ft. sand: 2914-16 (2 holes)

Fracturing: 100 sks. 80/100 sand: 300 sks. 20/40 sand: 300 lbs. acid: 500 B bls. 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
Top Soil			0	8	
Shale & sand			8	211	
Red rock, shale & sand			211	270	Damp @ 2025'
Coal			270	275	
Sand & shale			275	630	
Red rock & shale			630	690	Gas ck @ 2940 4/10-1/2" w/water
Coal			690	694	3705 cu.ft.
Sand & shale			694	1080	
Red rock & shale			1080	1140	Gas ck @ 3118 4/10-1/2" w/water
Red rock & shale			1140	1200	3705 cu.ft.
Red rock, shale & sand			1200	1360	
Red rock & shale			1360	1500	
Sand & shale			1500	1910	
Sand & shale			1910	2210	
Lime & sand			2210	2225	
Sand, shale & lime			2225	2257	
Big Lime			2257	2307	
Big Injun			2307	2584	
Sand & shale			2584	2914	
50ft. sand			2914	2916	
Sand & shale			2916	2994	
30 ft. sand			2994	3038	
Sand & shale			3038	3122	
Gordon Stray			3122	3168	
Sand & shale			3168	3225	
Gordon			3225	3228	
Sand & shale			3228	3320	
					T.D.

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.

Well Operator

By

Peter Battles

Its

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]

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 Company
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Balltown

Estimated depth of completed well, 4200 feet Rotary X / Cable tools _____

Approximate water strata depths: Fresh, 1500 feet; salt, None feet.

Approximate coal seam depths: 295-98, 386-90 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	11 ³ / ₄	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 ⁵ / ₈	ERW	23	x		1600	1600	To surf.	
Coal	8 ⁵ / ₈	ERW	23	x		1600	1600	To surf.	Sizes
Intermediate									
Production	4 ¹ / ₂	J-55	9.5	x		4150	4150	275 sks.	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 dwelling 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 12-28-82

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: _____, 19____

By _____

Its _____

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-658

API Well No. 47 - 033 - 2812
State County Permi

WELL TYPE: Oil / Gas x /
(If "Gas", Production x / Underground storage / Deep / Shallow x /)
LOCATION: Elevation: 1400 Watershed: Little Elk Creek
District: Sardis County: Harrison Quadrangle: Wallace

WELL OPERATOR J&J Enterprises, Inc.
Address P.O. Box 48
Buckhannon, WV 26201

DESIGNATED AGENT Harry L. Barnett
Address P.O. Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Thomas P. Jackson
Address 9 East Church St.
Fairchance, Pa. 15436

COAL OPERATOR
Address

SURFACE OWNER James R. Schraf
Address 1114 Brook Road S.E.
Washington, D.C. 20027
Acreage 86.54

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Willis G. Tetrick
Address Box 267
Clarksburg, WV 26301

WELL SALE (IF MADE) TO:
Name Unknown
Address

Name
Address

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

RECEIVED

JUN 14 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 / other contract x / dated 8/27, 1980, to the undersigned well operator from Clarence W. Mutschelknaus [if said deed, lease, or other contract has been recorded:]

Recorded on 9/10, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas lease # 1095 at page 681. 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 action 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 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
5 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

J&J Enterprises, Inc.
Well Operator
By [Signature]
Peter Battles

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 Company
Address P.O. Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Balltown

Estimated depth of completed well, 4200 feet Rotary / Cable tools _____

Approximate water strata depths: Fresh, 300 feet; salt, 1000 feet.

Approximate coal seam depths: 295-98, 386-90 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		
Conductor	11 ³ / ₄	H-40	42	x		1600 420'	1600 420'	Cts. Kinis
Fresh water	8 ⁵ / ₈	ERW	23	x		1600	1600	To surf.
Coal	8 ⁵ / ₈	ERW	23	x		1600	1600	To surf.
Intermediate								Sizes
Production Tubing	4 ¹ / ₂	J-55	9.5	x		4150	4150	275 sks. Depths set
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 2-23-83.

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: _____, 19 _____

[Signature]

By _____

Its _____