

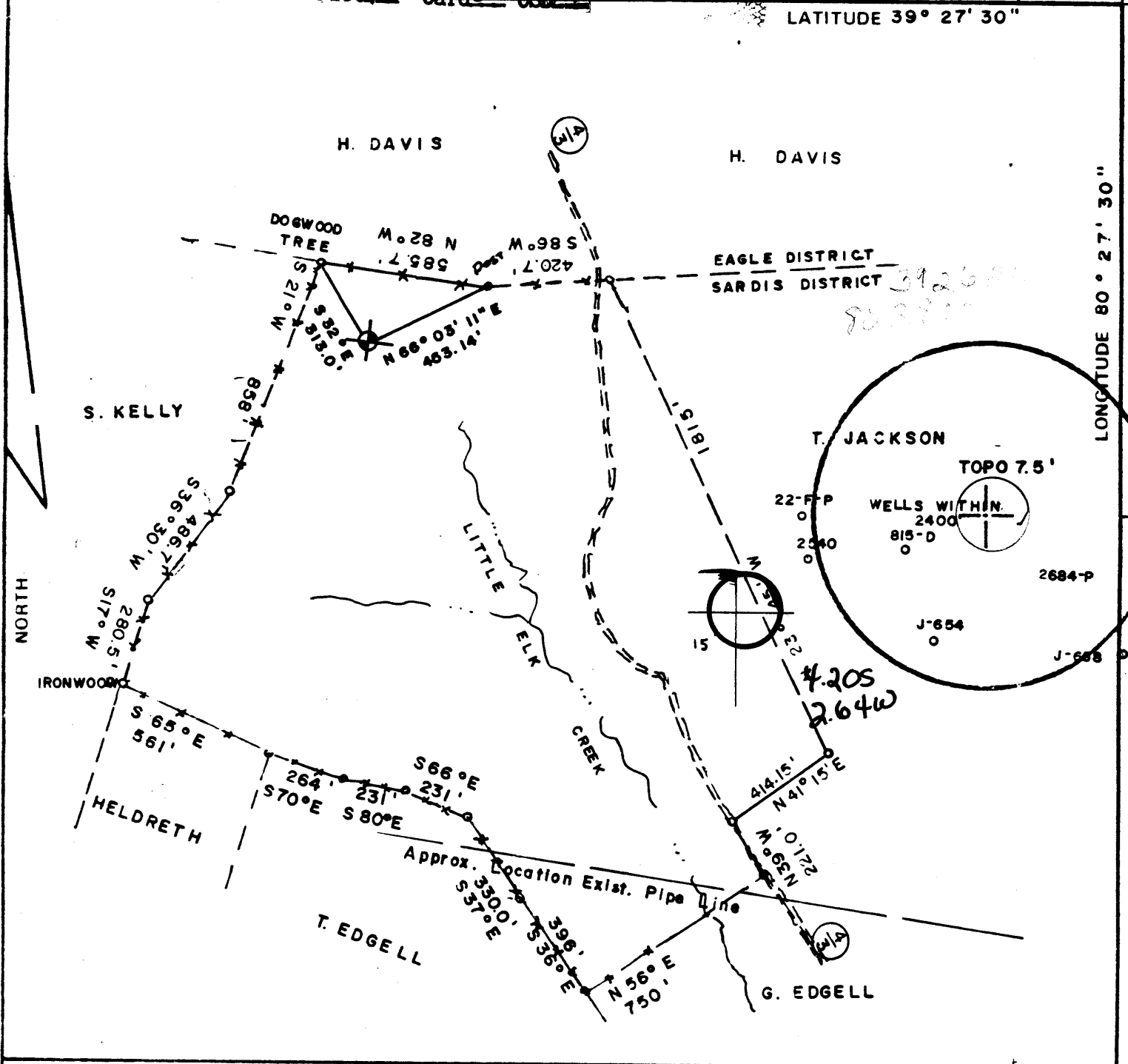
4/26/82

Plot/ Card OSD

1850

LATITUDE 39° 27' 30"

LONGITUDE 80° 27' 30"



PL. NO. 81-894-D
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 / 200
 PROVEN SOURCE OF ELEVATION EL. 1089 AT INT. OF 20/2 and 20/49, 7000' SE. 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: [Signature]
 RPE 5568 LLS _____

PLACE SEAL HERE

(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV 6
 3/78



DATE APRIL 7, 1982
 OPERATOR'S WELL NO. J-655
 API WELL NO. _____
47 - 033 - 2793
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 RE GAS PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1360 WATER SHED LITTLE ELK CREEK
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE Clarksburg 15' NW
 SURFACE OWNER MINNIE M. FERREE, et al ACREAGE 85
 OIL AND GAS LEASE OWNER EDNA D. BRAMER LEASE ACREAGE 85
 LEASE NO. F-11
 RE REUSED 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 5th SAND EST. MATED DEPTH 2950
 WELL OPERATOR J J ENTERPRISES INC. DESIGNATED AGENT HARRY L. BARNETT MAY 17 1982
 ADDRESS BOX 48 ADDRESS BOX 48
BUCKHANNON W VA 26201 BUCKHANNON W. VA. 26201

RECEIVED

JUL 26 1982

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

Date: July 14, 1982
Operator's Well No. J-655
API Well No. 47 - 033 2793
State County Permit

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1360 Watershed: Little Elk Creek
 District: Sardis County: Harrision 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 X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate X
 Plug off old formation ___ / Perforate new formation ___
 Other physical change in well (specify) _____

PERMIT ISSUED ON 4/23, 19 82 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: 5th Sand Depth _____ feet
 Depth of completed well, 3204 feet Rotary x / Cable Tools ___
 Water strata depth: Fresh 50, 130 feet; salt, 0 feet.
 Coal seam depths 170-75, 546-55, 645 ⁻⁵² Is coal being mined in the area? No
 Work was commenced 5/24, 19 82 and completed 6/9, 19 82

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.	Rands
Fresh water	8 5/8	ERW	23	x		1094.30	1094.30	300 sks.	
Coal	8 5/8	ERW	23	x		1094.30	1094.30	300 sks.	Sizes
Intermediate									
Production Tubing	4	J-55	10.5	x		3192.10	3192.10	175 sks.	Depths set
Liners									Perforations:
									Top Bottom
									2890 2893
									2960 2963
									3085 3133
									3173 3175

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3173-75 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 96 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation 50 ft., 30ft. & Gordon Stray Pay zone depth 2890-2963 30 Ft
 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
 $t=60+(0.0075 \times 3192) + 459.7=544$ $X=53.35 \times 544=29016$ $=0.0000345$ Pf=600x2.72 (0.0000345) (0.733)
 $Pf=600 \times 2.72 (0.0000345) (0.733) (3033) (0.9) = 600 \times 2.72^{0.069} = 600 \times 1.07=643$ psi

AUG 2 1982

08-78

DETAILS OF PERFORATED INTERVALS, FRACTURING OR GEL TREATING, PHYSICAL CHANGE, ETC.

Gordon: Perforations: 3173-75 (3 holes)
Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand:700 gal. Acid:500 Bbls.fluid.

Gordon Stray: Perforations: 3085-3133 (9 holes)
Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand:700 gal. Acid:500 Bbls. fluid.

30 ft. Sand: Perforations: 2960-2963 (3 holes)
Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand: 700 gal. Acid:500 Bbls. fluid.

50 ft. Sand: Perforations: 2890-93 (3 holes)
Fracturing: 150 sks. 80/100 sand: 350 sks. 20/40 sand:700 gal. Acid;500 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
Sand & shale			0	88	
Shale & red rock			88	145	
Sand & shale			145	170	Hole Damp @ 50'
Coal			170	175	
Sand, shale & red rock			175	228	1/2" stream @ 130'
Sand & shale			228	546	
Coal & slate			546	555	1/4" stream and oil @ 1750'
Sand & shale			555	645	
Coal			645	652	
Sand & shale			652	988	
Coal			988	1004	
Sand & shale			1004	1712	
Little Lime			1712	1850	
Shale & sand			1850	1953	
Shale & red rock			1953	2200	
Lime & shale			2200	2222	
Big Lime			2222	2331	
Sandy shale			2321	2890	
50 ft. sand			2890	2893	
Sand & shale			2893	2960	
30 ft. sand			2960	2963	
Sandy shale			2963	3085	
Gordon Stray			3085	3133	
Sandy Shale			3133	3173	
Gordon			3173	3175	
Sandy shale			3175	3204	
				T.D.	

(Attach separate sheets to complete as necessary.)

J&J Enterprises, Inc.

By: Peter Battles
Geologist

NOTE: Regulation 2.02(f) 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]

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OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-655
API Well No. 47 - 033 - 2793
State County Per

WELL TYPE: Oil APR 23 1982
(If Oil and Gas Division / Production x / Underground storage / Deep / Shallow x /)
LOCATION: Elevation: 1360 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 Edna D. Bramer
Address Rt. # 1, Box 136
Wallace, WV 26448

COAL OPERATOR _____
Address: _____

ACREAGE 85
SURFACE OWNER Minnie M. Ferree and Jeffrey Ferree
Address 1214 Cherry St., Rt. # 5
Clarksburg, WV 26301
ACREAGE 85

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address P.O. Box 1314
Morgantown, WV 26505
Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name Unknown
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

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

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 9/1, 1980, to the undersigned well operator from Minnie M. Ferree & Jeffrey W. Ferree
[If said deed, lease, or other contract has been recorded:]

Recorded on 10/3, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas Lease Book 1096 at page 397. 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 GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

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

[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, 5th Sand

Estimated depth of completed well, 2950 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 120 feet; salt, None feet.

Approximate coal seam depths: 20,170,490 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	1 1/4	H-40	42	x		30	0	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		800	800	To surf.	
Coal	8 5/8	ERW	23	x		800	800	To surf.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		2900	2900	175 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 1-8-83

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

By
Its