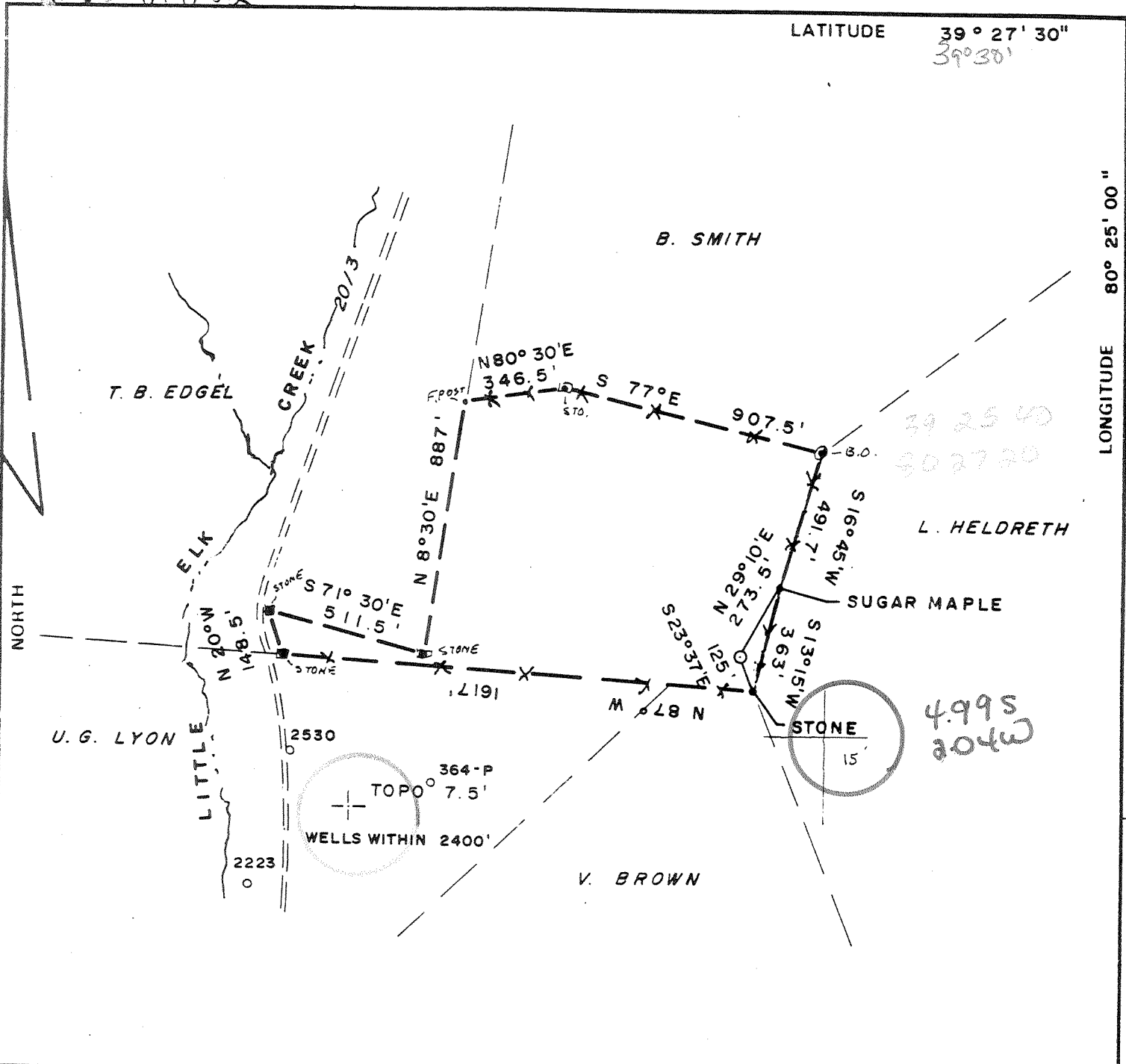


4/14/82

LATITUDE 39° 27' 30"
39° 30'

LONGITUDE 80° 25' 00"
11,150'



FILE NO. 81 - 894 - C
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION EL. 1089 - Int. of 20/3 and 20/49, 3800' S.W. 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) _____
 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 - 19 82
 OPERATOR'S WELL NO. J - 659
 API WELL NO. _____
47 - 033 - 2784
 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 1460 WATER SHED LITTLE ELK CREEK
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE 7.5' clarksburg 15' NW
 SURFACE OWNER HENRY F. COWHICK ACREAGE 28.5
 OIL & GAS ROYALTY OWNER THOMAS JACKSON LEASE ACREAGE 28.5
 LEASE NO. J-91
 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.VA. 26201 BUCKHANNON W.VA.

APR 26 1982

RECEIVED

FORM IV-35 (Obverse)

[08-78]

JUL 26 1982

OIL AND GAS DIVISION WV DEPARTMENT OF MINES

Date: July 19, 1982

Operator's Well No. J-659

API Well No. 47 - 033 - 2784 State County Permit

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

WELL OPERATOR'S REPORT OF DRILLING, FRACURING 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: 1460 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 Buckhannon, WV 26201

PERMITTED WORK: Drill X / 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, 19 82 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, 3390 feet Rotary X / Cable Tools Water strata depth: Fresh, 729.96-75 salt, 0 feet. Coal seam depths: 724-29 Is coal being mined in the area? No Work was commenced 6/20, 19 82, and completed 6/24, 19 82

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS. Rows include Conductor, Fresh water, Coal, Intermediate, Production, Tubing, Liners.

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 3225-28 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, 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, 50' & 30' sand Pay zone depth 3122-3168 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 x 3252) + 459.7 = 544 X=53.35 x 544= 29027 =0.0000345 Pf=600 x 2.72 (0.733) (3071) (0.9) +600 x 2.72^0.699 =600 x 1.07= Pf= 643 psi

AUG 2 1982 0000345)

108-78]

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' sand: 2994-3038 (4 holes)

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

50' sand: 2914-16 (2 holes)

Fracturing: 100 80/100 sand: 300 sks. 20/40 sand: 300 lbs. 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
Top Soil			0	10	
Shale & sand			10	135	
Red rock, sand & shale			135	210	Damp @ 729'
Red rock and shale			210	330	
Red rock and shale			330	724	Damp @ 960-975'
Coal			724	729	
Sandy shale & red rock			729	981	Oil odor @ 2933
Sandy shale			981	1130	
Red rock and sandy shale			1130	1939	Gas ck @ 2991 104-1 1/4" w/water
Sand & shale			1939	2235	
Big Lime			2235	2327	74,000 cu.ft.
Shale			2327	2420	
Sand & shale			2420	2914	
50' sand			2914	2916	
Sand & shale			2916	2994	
50' sand			2994	3038	
Sand & shale			3038	3122	
Gordon Stray			3122	3168	
Sand & shale			3168	3225	
Gordon			3225	3228	
Sand & shale			3228	3390	
				T.D.	

(Attach separate sheets to complete as necessary.)

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

NOTE: Regulation 2.021(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-659
API Well No. 47 - 033 - 2784
State County Permit

WELL TYPE: Oil ___ / Gas x /
(If "Gas", Production x / Underground storage ___ / Deep ___ / Shallow x /)
LOCATION: Elevation: 1460 Watershed: Little Elk Creek
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

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

ACREAGE 28.5
SURFACE OWNER Henry F. Cowhick
Address 547 C.O. Road 40
Sullivan, OH 44880
Acreage 28.5

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

FIELD 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

APR 13 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 7/9, 1980, to the undersigned well operator from Roy B. Smith
[If said deed, lease, or other contract has been recorded:]

Recorded on 7/18, 1980, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas lease 1093 at page 926. 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
515 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

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

BLANKET COVER

[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 Co.

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, 1550 feet; salt, Noen feet.

Approximate coal seam depths: 210,320 Is coal being mined in the area?

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		1800	1800	To surf.	
Coal	8 5/8	ERW	23	x		1800	18-0	To surf.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	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 4-21-82

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