

← 2150' →

Latitude

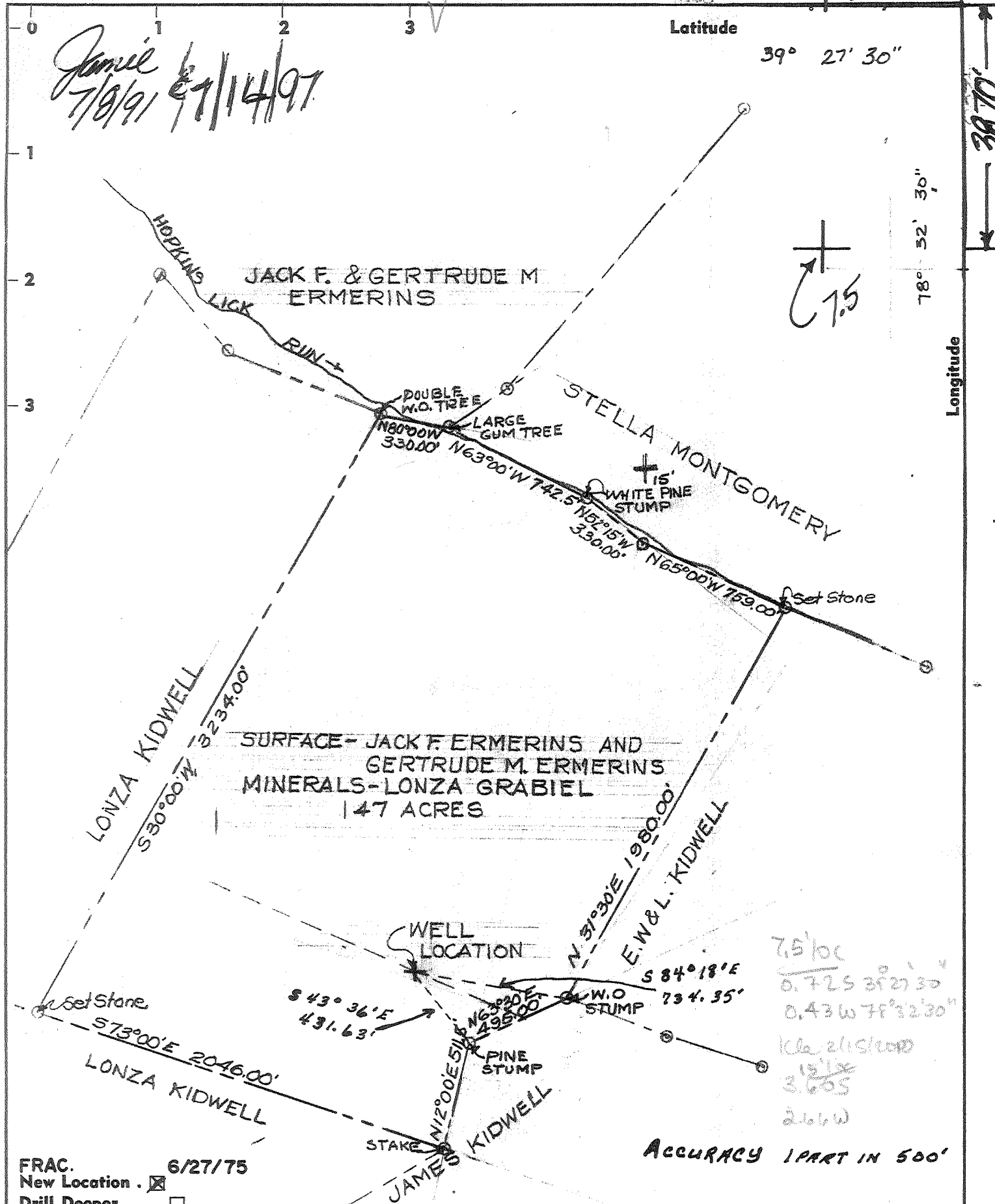
39° 27' 30"

Longitude

78° 32' 30"

3870'

Jamie
7/9/91 & 1/14/97



SURFACE - JACK F. ERMERINS AND GERTRUDE M. ERMERINS MINERALS - LONZA GRABIEL 147 ACRES

WELL LOCATION

ACCURACY 1 PART IN 500'

- FRAC. 6/27/75
- New Location
- Drill Deeper
- Redrill
- Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company Hampshire Gas Company
 6801 Industrial Road
 Springfield, Va. 22151
 Address Surface: Jonathan & Sue Garrigues
 Farm LONZA GRABIEL

WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WEST VIRGINIA 25143-2506

Tract _____ Acres 147 Lease No. _____
 Well (Farm) No. 10 Serial No. _____
 Elevation (Spirit Level) 908.12' *N. 7.5*
 Quadrangle HANGING ROCK 15 LEVELS 1/2
 County HAMPSHIRE District GORE
 Engineer Albert S. Payne
 Engineer's Registration No. 986
 File No. _____ Drawing No. _____
 Date APRIL 30, 1964 Scale 1" = 600'

WELL LOCATION MAP
API WELL NO. 47-027-00013-P

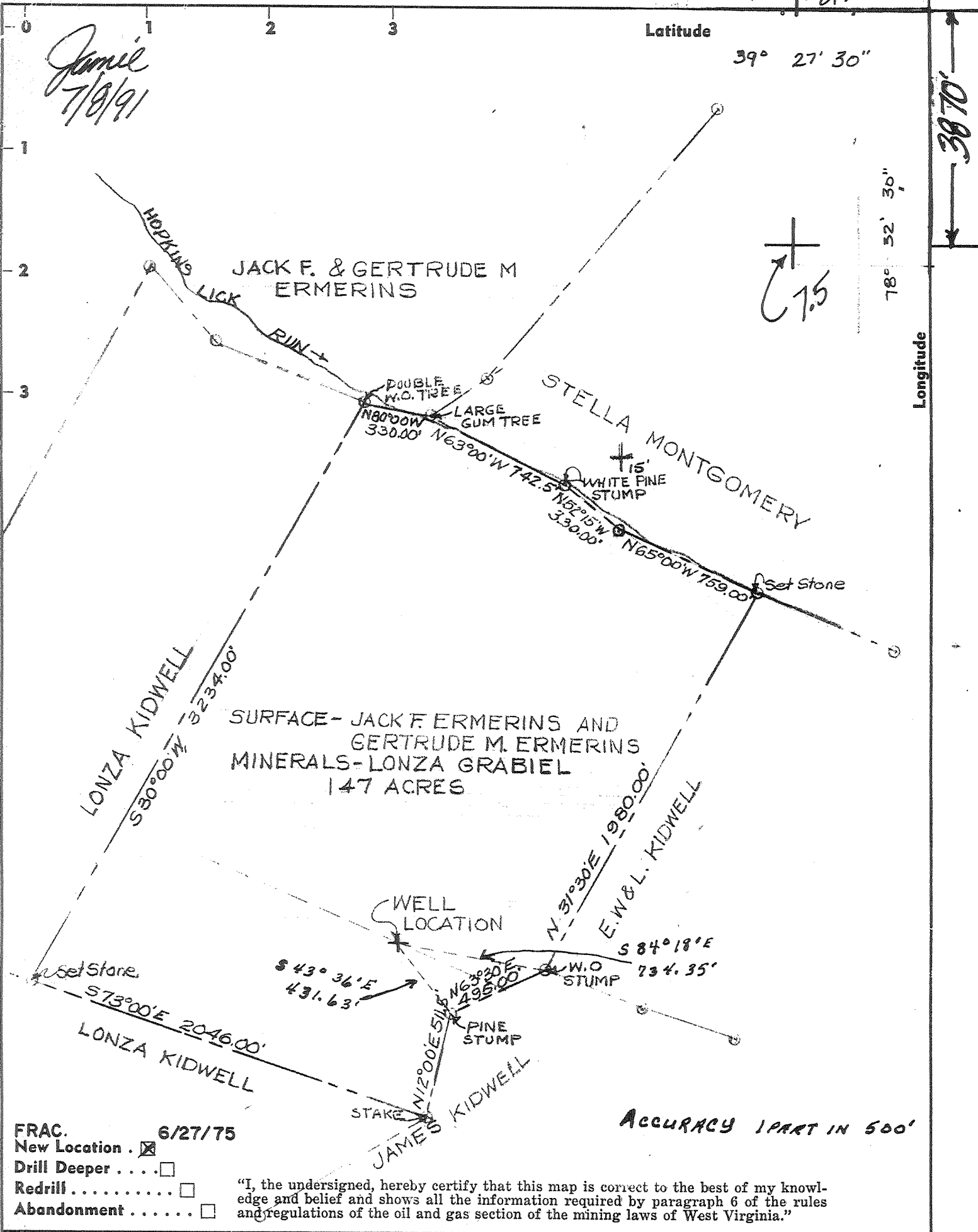
*Well drilled in 1964 by
 Fairman Drilling Co. 3412.
 attempted to produce
 oil & gas. Hampshire Gas
 Company*

JUL 18 1997

Hamp 13 P CANC

← 2150 →

Jamil
7/8/91



FRAC. 6/27/75
 New Location
 Drill Deeper
 Redrill
 Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company Crab Run Oil & Gas Company
 Address 6801 Industrial Rd-Springfield, Va. 22151
 Farm LONZA GRABIEL
 Tract _____ Acres 147 Lease No. _____
 Well (Farm) No. 10 Serial No. _____
 Elevation (Spirit Level) 908.12'
 Quadrangle HANGING ROCK 15 LEVELS 7 1/2
 County HAMPSHIRE District GORE
 Engineer Albert S. Payne
 Engineer's Registration No. 986
 File No. _____ Drawing No. _____
 Date APRIL 30, 1964 Scale 1" = 600'

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

WELL LOCATION MAP
API WELL NO 47-027-00013-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

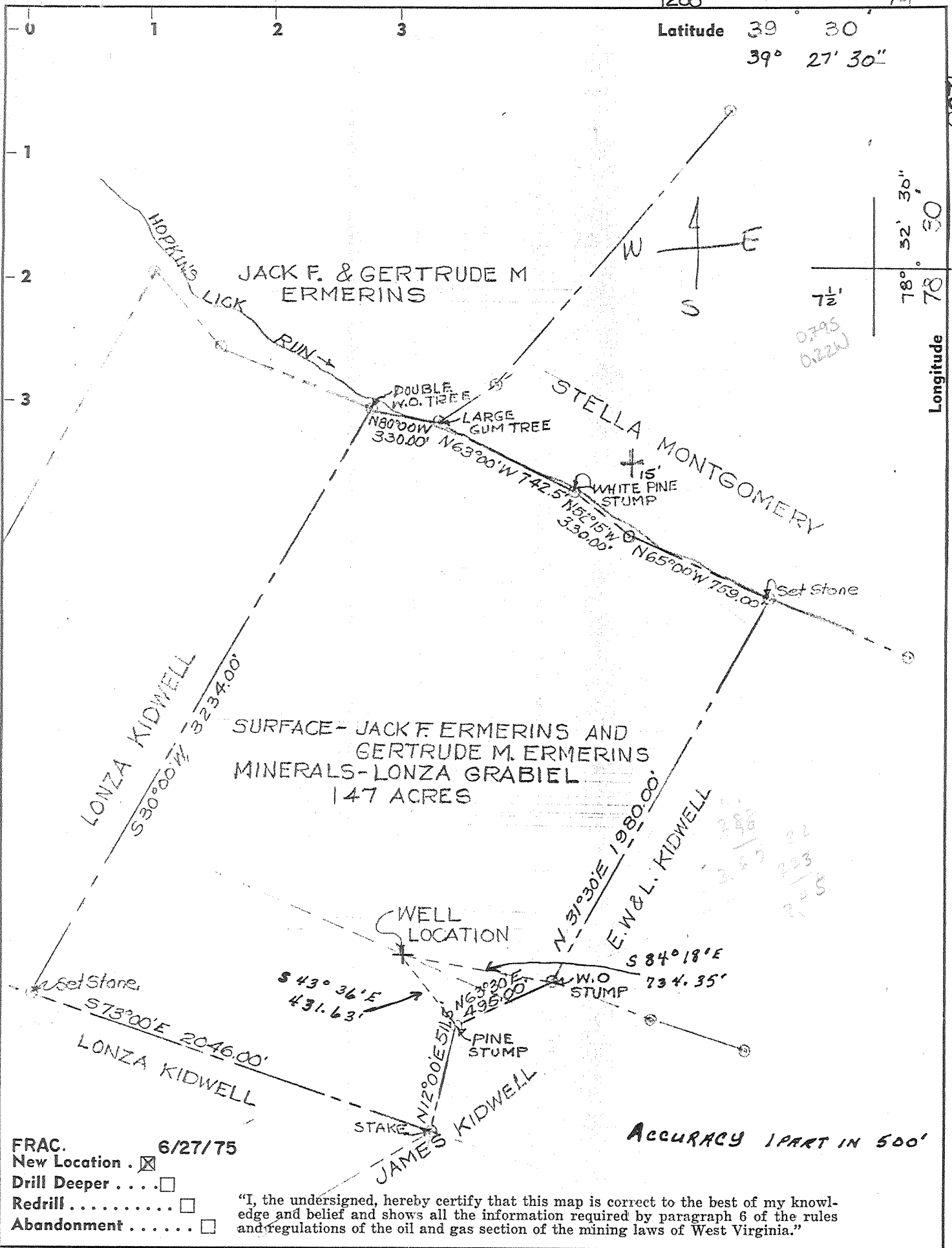
AUG 16 1991
 47:027

Hand 13

1200 6,27,75

Latitude 39 30
39° 27' 30"

4200



SURFACE - JACK F. ERMERINS AND GERTRUDE M. ERMERINS
MINERALS - LONZA GRABIEL
147 ACRES

ACCURACY 1 PART IN 500'

FRAC. 6/27/75
 New Location
 Drill Deeper
 Redrill
 Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company HAMPSHIRE GAS COMPANY 37
 Address 6801 INDUSTRIAL ROAD
SPRINGFIELD VA. 22151
 Farm LONZA GRABIEL
 Tract _____ Acres 147 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 908.12'
 Quadrangle HANGING ROCK 15 LEVELS 7 1/2
 County HAMPSHIRE District GORE
 Engineer Albert S. Gage
 Engineer's Registration No. 986
 File No. _____ Drawing No. _____
 Date APRIL 30, 1964 Scale 1" = 600'

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

WELL LOCATION MAP

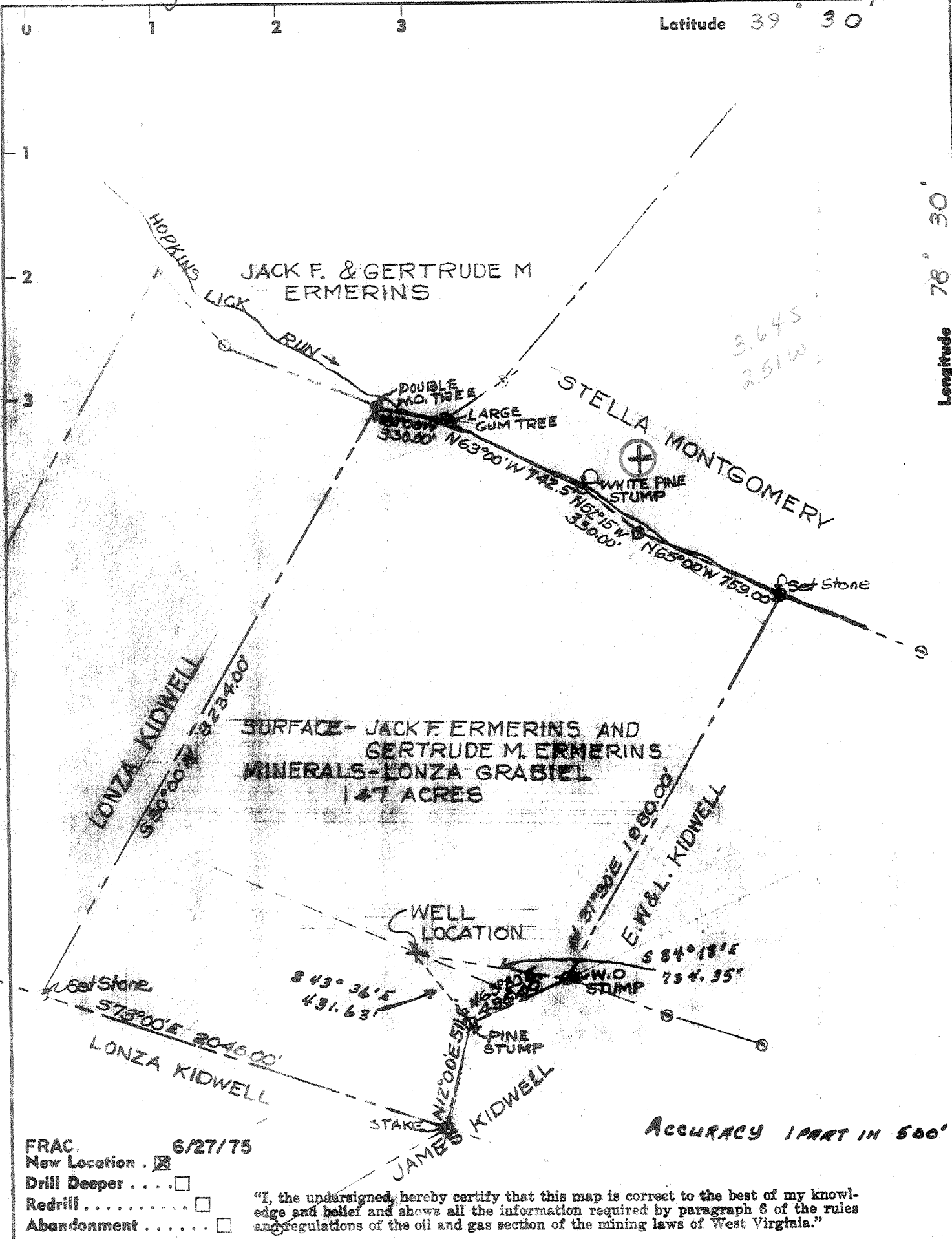
FILE NO. HAMP-13 FRAC.
FR. CANCELLED
CORRECTED MAP 6-3-64

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

MAY 09 1968

- Denotes one inch spaces on border line of original tracing.

47:027



FRAC. 6/27/75
 New Location
 Drill Deeper
 Redrill
 Abandonment

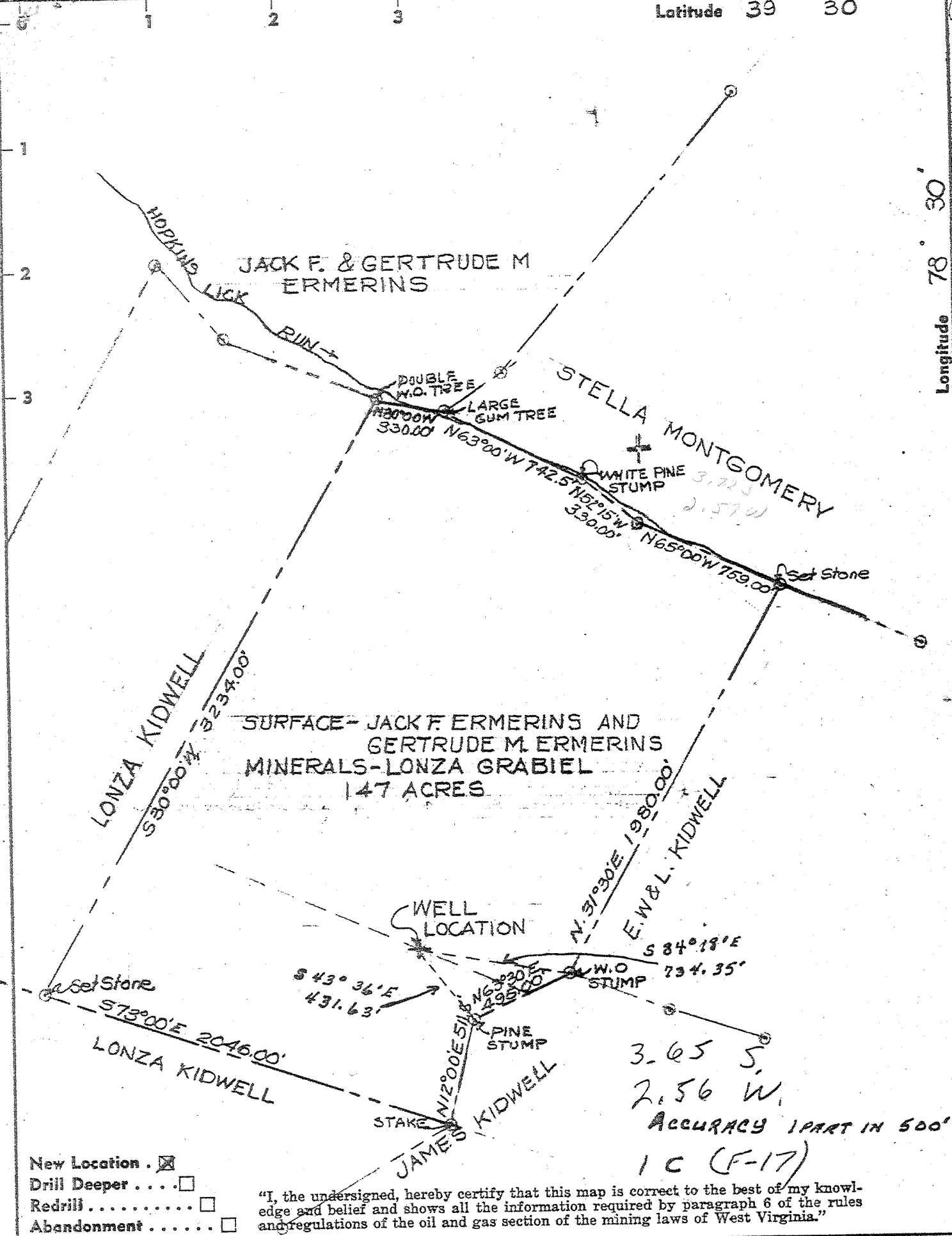
"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company HAMPSHIRE GAS COMPANY
 Address 6801 INDUSTRIAL ROAD
SPRINGFIELD VA 22151
 Farm LONZA GRABIEL
 Tract _____ Acres 147 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 908.12'
 Quadrangle HANGING ROCK I NE
 County HAMPSHIRE District GORE
 Engineer Albert S. Poye
 Engineer's Registration No. 986
 File No. _____ Drawing No. _____
 Date APRIL 30, 1964 Scale 1" = 600'

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

WELL LOCATION MAP
 FILE NO. HAMP-13 FRAC.
 CORRECTED MAP 6-3-64
 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

JUL 9 1975 47:027



- New Location .
- Drill Deeper
- Redrill
- Abandonment

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company	FAIRMAN DRILLING COMPANY
Address	P.O. BOX 140 DUBOIS, PA
Farm	LONZA GRABIEL
Tract	Acres 147 Lease No.
Well (Farm) No.	1 Serial No.
Elevation (Spirit Level)	908.12'
Quadrangle	HANGING ROCK I - NE
County	HAMPSHIRE District GORE
Engineer	Albert S. Pope
Engineer's Registration No.	386
File No.	Drawing No.
Date	APRIL 30, 1964 Scale 1" = 600'

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

WELL LOCATION MAP

FILE NO. HAMP-13

CORRECTED MAP 6-3-64

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Hanging Rock

WELL RECORD

Permit No. Hamp-13

Oil or Gas Well Gas

(KIND)

Company Fairman Drilling Co.
Address Box 288, DuBois, Pa.
Farm Lenzo Grabel Acres 147
Location (waters) Hopkins Lick Run
Well No. I Elev. 908.12' G.
District Gore County Hampshire
The surface of tract is owned in fee by Jack E. & Gertrude M. Erberins Address Washington, D.C.
Mineral rights are owned by Lonzo Grabel, R.D. #1, Box 246 Address Severna Park, Md.

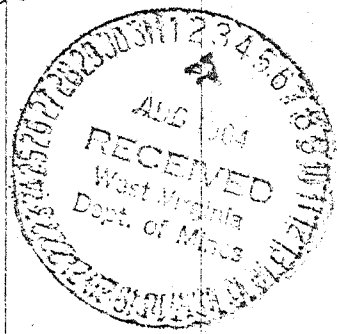
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16 3/8" - 48'	61'	61'	None
13 9 5/8" - 36'	916'	916'	Size of
8 1/4" - 26'	5156'	5156'	Depth set
5 3/16"			Open Hole Comp.
3"			Perf. top
2"			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced 5/12/64
Drilling completed 7/9/64
Date Shot Not Shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 9,975 C.F.D. Cu. Ft.
Rock Pressure None Taken lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED 11,000 Gal. 15% Acid
WELL FRACTURED _____

CASING CEMENTED See Below SIZE Dowell 75 cent No. Ft. 30 Date 9/2/64
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

RESULT AFTER TREATMENT 100,000 C.F.D.
ROCK PRESSURE AFTER TREATMENT 1620# - 9 Days
Fresh Water 150', 1350' Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale			0	120			
Sand & Shale			120	420	Fresh - 150'		
Shale			420	585			
Shale Sdy.			585	780			
Shale			780	865			
Shale & Sand			865	910			
Shale			910	1340			
Sand			1340	1375	Fresh - 1350'		
Shale Sdy.			1375	1624			
Shale			1624	1830			
Shale Sdy.			1830	2019			
Shale			2019	2242			
Shale Sdy.			2242	2356			
Shale			2356	2864			
Shale Sdy.			2864	3147			
Shale			3147	3210			
Sand			3210	3244			
Shale			3244	4019			
Shale Sdy			4019	4083			
Shale <u>N.E. DM</u>			4083	5148			
Oriskany Sand			5148	5369	9,975 C.F.D. from Oriskany		
Lime Sdy.			5369	5412			
Total Depth			5412				



13 3/8" - 61' - 50 Bags - 5/14/64
9 5/8" - 916' - 75 Bags - 5/18/64
7" - 5156' - 100 Bags - 6/30/64 - Aquagel circulated to surface
Above Cement



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN 27 1975
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE June 26, 1975

Surface Owner Jack F. Amerias

Company Empshire Gas Company

Address 324 N. Van Buren St., Falls Church, Va.

Address 1100 H St., N.W., Washington, D.C. 20005

Mineral Owner Louisa Grubiel

Farm Louisa Grubiel Acres 147

Address Levisa, West Virginia

Location (waters) Little Capon

Coal Owner None

Well No. 10 Elevation 906

Address _____

District Cane County Empshire

Coal Operator None

Quadrangle Hanging Rock

Address _____

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for fracturing. This permit shall expire if operations have not commenced by 10-30-75.

Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Paul Garrett
PH: 622-3871 ADDRESS Clarksburg, W.Va.

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated May 2, 1975 by Louisa Grubiel made to Empshire Gas Company and recorded on the 9th day of May 1975, in Empshire County, Book 211 Page 178

XX NEW WELL XX DRILL DEEPER XX REDRILL XX FRACTURE OR STIMULATE
XX OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with, the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

EMPSHIRE GAS COMPANY

(Sign Name) _____

Well Operator

1100 H Street, N. W.

Street

Washington, D. C. 20005

City or Town

State

Address
of
Well Operator

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey

P. O. Box 379

Morgantown, W. Va. 26505

AC 304-296-4461

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the facts of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

HAMP-13-FRAC.

PERMIT NUMBER

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME Harry L. Ketchum, Jr.
 ADDRESS _____ ADDRESS 6801 Industrial Rd., Spfld., Va. 22151
 TELEPHONE _____ TELEPHONE (703) 750-4871 (4872)
 ESTIMATED DEPTH OF COMPLETED WELL: _____ ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: _____
 TYPE OF WELL: OIL _____ GAS COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS ^{140', 200'} 1, 3/4' FEET ~~NONE~~ SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? N/A BY WHOM? N/A

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

**Blanket bond on file
Original Permit Number for Drilling Well - Resp. 13**

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

Environmental Protection
SEP 1 1997

API # 47- 27-00013-P

R-38
0-Jul-97

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

Permitting
Office of Oil & Gas

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: GARRIGUES, JONATHAN # SUE Operator Well No.: L. GABRIEL #10

LOCATION: Elevation: 908.12 Quadrangle: HANGING ROCK
District: GORE County: HAMPSHIRE
Latitude: 4200 Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 1200 Feet West of 78 Deg. 32 Min. 30 Sec.

Well Type: OIL _____ GAS _____ xx _____

Company: Hampshire Gas Company Coal Operator _____
6801 Industrial Road or Owner _____
Springfield VA 22151 _____

Agent: Ronnie Miller Coal Operator _____
or Owner _____

Permit Issued: 07/14/97

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Lincoln ss:

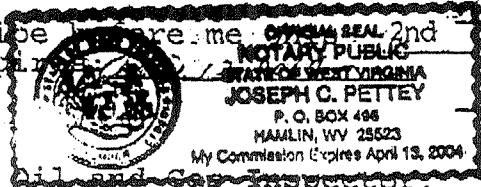
Scott Parsons and Gene Wheeler being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Phil Tracey Oil and Gas Inspector representing the Director, say that said work was commenced on the 15th day of August, 19 97, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
Gel Hole	surface	4954'		
Pull 7"		5168'	987'	4181'
Solid Cast Iron Bridge Plug		4954'		
Cement	4954'	4805'		
Pull 9-5/8"		916'	227'	689'
Cement	1023'	847'		
Cement	320'	surface		
All Pipe was Free Pointed				

Description of monument: erect monument with API No. 47-027-0013E
and that the work of plugging and filling said well was completed on the 22nd day of August, 19 97.

And further deponents saith not.

Sworn and subscribed before me Joseph C. Petley 2nd day of September, 19 97
My commission expires _____



Joseph C. Petley
Notary Public

Craig Duckworth
Oil and Gas Inspector