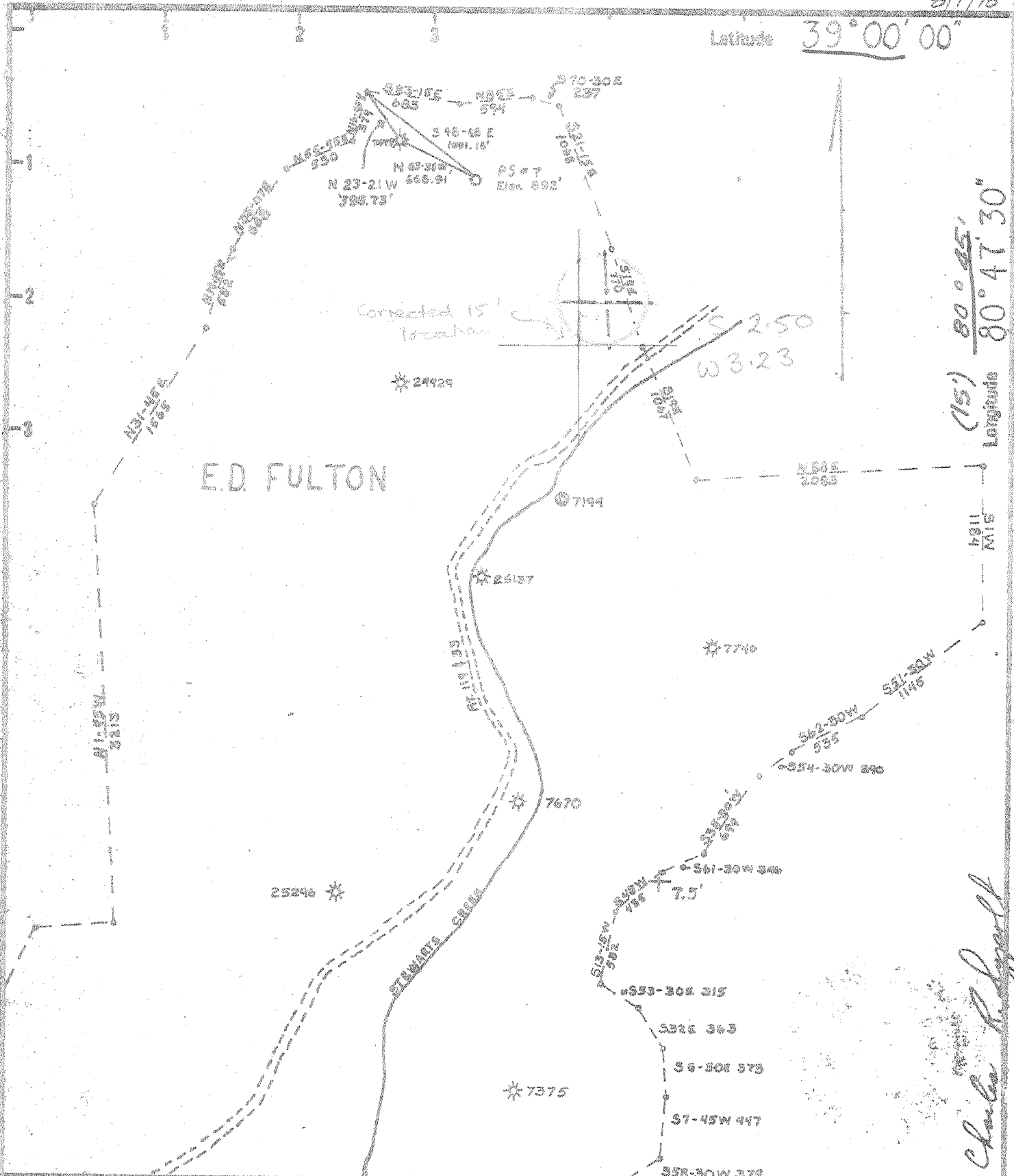


8/1/78



Latitude $39^{\circ} 00' 00''$
 Longitude $80^{\circ} 47' 30''$
 (15') $80^{\circ} 45'$

Charles R. Lyford

New Location <input checked="" type="checkbox"/> Drift Deeper <input checked="" type="checkbox"/> 10/20/78 Abandonment <input type="checkbox"/>	Minimum Error of Closure ... 1 part in 200 Source of Elevation ... Equivalents ... Well # 7477 "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."
---	--

Eastern American Energy Corp dba Company Pacific States Gas and Oil, Inc.	
Address P.O. Box 47 Glenville, W.V.	
Farm E.D. Fulton, D.H. and Edna Turner	
Treat	Acres 1200 Lease No. 11710
Well (Farm) No.	P.S. #7 Serial No.
Elevation (Spirit Level)	892' 940'±
Quadrangle	Glenville 7 1/2' 10' NE
County	Gilmer District Glenville
Engineer	See Above
Engineer's Registration No.	
File No.	Drawing No.
Date	July 26, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. GIL-3376-DD

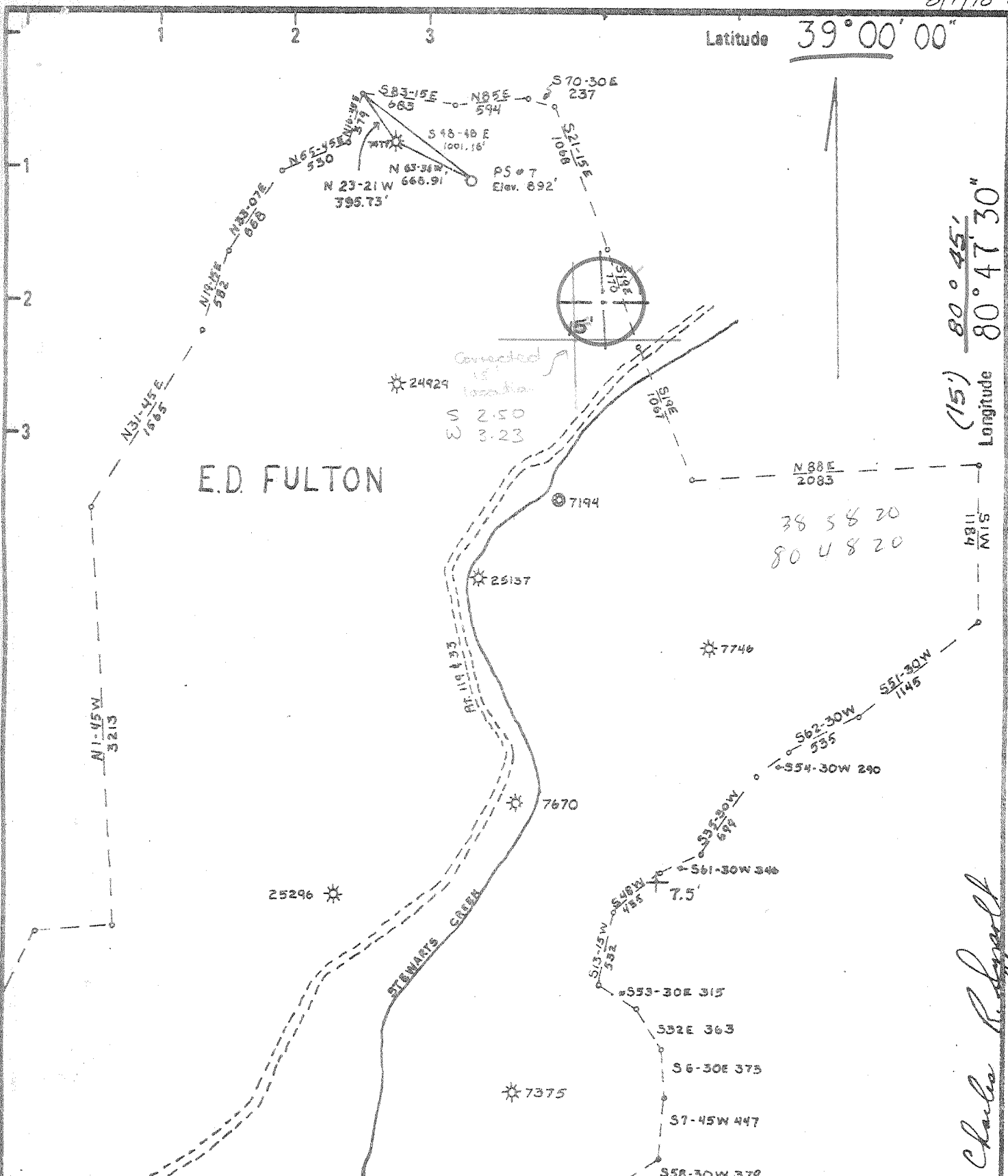
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

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

47-021 NOV 1 1978

Deep Well 5200-Down Spool 6-6 Glenville North (182)

8/1/78 R



E.D. FULTON

Connected 15' location
 * 24929
 S 2.50
 W 3.23

38 58 20
 80 48 20

(15') 80° 45'
 Longitude 80° 47' 30"

Charles R. Lyford

New Location Drill Deeper Abandonment

Minimum Error of Closure . . . 1 part in 200
 Source of Elevation . . . Equitable Well # 7477

"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 Pacific States Gas and Oil, Inc.
 Address P.O. Box 67, Glenville, W.V.
 Farm E.D. Fulton, D.H. and Edna Turner
 Tract _____ Acres 1200 Lease No. 11710
 Well (Farm) No. P.S.#7 Serial No. _____
 Elevation (Spirit Level) ~~892~~ 940 ±
 Quadrangle Glenville 7 1/2' 15' NE
 County Gilmer District Glenville
 Engineer See Above
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date July 26, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. GIL-3376

+ 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.

47-021 AUG 18 1978

Deep Well 6-6 Glenville N (182)

FORM IV-35
(Obverse)
[08-78,

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

Date January 31, 1979, 19

Operator's Well No. E.D. Fulton #7
API Well No. 47 - 021 - 3376 State County Permi

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: 940 Watershed: Stewart's Creek
District: Glenville County: Gilmer Quadrangle: Glenville

WELL OPERATOR Eastern American Energy Corporation DESIGNATED AGENT James C. Recht
Address P.O. Box N Address P.O. Box N
Glenville, West Virginia 26351 Glenville, West Virginia 26351

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 October 20, 19 78

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Goodnight

Address Smithville
West Virginia

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 6500 feet

Depth of completed well, 6927 feet Rotary / Cable Tools

Water strata depth: Fresh, 208 feet; salt, _____ feet.

Coal seam depths: NONE Is coal being mined in the area? NONE

Work was commenced November 5, 1978, and completed December 18, 1978

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	20	---	----		X	0-20	--0-	Kinds Bakers ADL-
Fresh water	8 5/8	H 40	20	X		0-412	412	125 SKS
Coal								Sizes 4 1/2"
Intermediate								Depths set 6525
Production	4 1/2	CW 55	10.5	X		0-6924	6924	600 SKS
Tubing	2 3/8	K55	4.7	X		0-6528	6528	-0--
Liners								Perforations:
								Top Bottom
								6736-----6791

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 6733--6830

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d

Final open flow, 2,300 Mcf/d Final open flow, _____ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 2450 psig (surface measurement) after 24 hours shut in

[If applicable due to multiple completion--]

Second producing formation _____ Pay zone depth _____

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 FEB 20 1979

psig (surface measurement) after _____ hours shut in

08-78]

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

PERF: 8-0.49" Diameter Holes @ 6791, 6789, 6787, 6783, 6746, 6742, 6738, 6736

FRAC: 733 BBL H₂O Laden with 650 lbs. J-266 Gel, 20 Gals F-52, 20 Gals W-30, 6,000 Gals 15% HCL, 40,000 lbs. 20/40 Sand, 40,000 80/100 Sand.

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 & Shale			0	30	
Sand & Shale			30	56	
Sand			56	208	
Sand & Shale			208	231	
Sand			231	266	
Sand & Shale			266	293	
Red Rock			293	302	
Sand & Shale & Red Rock			302	890	
Sand & Shale			890	1215	
Shale & Sand			1215	1373	
Sand			1373	1514	
Sand & Shale			1514	1725	E Log Top @ 1700
Little Lime			1725	1748	
Pencil Cave			1748	1774	
Big Lime			1774	1850	
Big Injun			1850	1934	
Sand & Shale			1934	2012	
Weir			2012	2148	
Shale			2148	4610	
Benson			4610	4631	
Shale			4631	4852	
Elk			4852	5123	
Shale			5123	6436	
Tully Lime			6436	6456	
Shale			6456	6506	
Chert			6506	6672	
Shale			6672	6733	
Oriskany			6733	6830	
Shale			6830	6927	
TD			6927		

(Attach separate sheets to complete as necessary)

Eastern American Energy Corporation
Well Operator
By John Mork
Its President

NOTE: Regulation 2.02(i) 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."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
AUG 01 1978

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE July 28, 1978

Surface Owner D.H. and Edna Turner

Company Pacific States Gas & Oil, Inc.

Address Glenville, WV

Address P.O.Box 67, Glenville, WV 26351

Mineral Owner E. D. Fulton, et al

Farm E. D. Fulton Acres 1200

Address Gilmer County, W.Va.

Location (waters) Stewarts Creek

Coal Owner E. D. Fulton or his assigns

Well No. P.S. #7 Elevation 892 940

Address Gilmer County, W.Va.

District Glenville County Gilmer

Coal Operator NONE

Quadrangle Glenville 7 1/2

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 drilling. This permit shall expire if operations have not commenced by 12-1-78.

INSPECTOR
TO BE NOTIFIED Paul Goodnight

ADDRESS Smithville, WV 26178

PHONE 477-3660

Robert F. [Signature]
Deputy Director - Oil & Gas Division
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 September 1, 1909 by E.D. Fulton made to Charles Swisher and recorded on the 1st day of January 1915, in Gilmer County, Book 73 Page 71
 NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours,
(Sign Name) [Signature]
Well Operator

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address of Well Operator
Post Office Box 67 Street
Glenville City or Town
West Virginia State

*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 filing 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

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by [Signature]

912-3376 PERMIT NUMBER

47-021

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

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME S. W. Jack Drilling NAME John Mork
 ADDRESS Buckhannon, WV 26201 ADDRESS P.O.Box 67, Glenville, WV 26351
 TELEPHONE 472-2161 TELEPHONE 462-8118
 ESTIMATED DEPTH OF COMPLETED WELL: 5250 ft. ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS X 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	400	400	Surface
7			
5 1/2			
4 1/2	5250	5250	250 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET _____ SALT WATER None FEET _____
 APPROXIMATE COAL DEPTHS 50 feet
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

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.

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

RECEIVED

OCT 20 1978



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

RECEIVED

OCT 20 1978

W. VA. OIL & GAS
CONSERVATION COMMISSION

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 18, 1978
 Company Eastern American Energy Corporation dba Pacific States Gas & Oil, Inc.
 Address P.O. Box 67, Glenville, WV
 Farm E.D. Fulton Acres 1200
 Location (waters) Stewarts Creek
 Well No. E.A. #7 Elevation 940
 District Glenville County Gilmer
 Quadrangle Glenville

Surface Owner D.H. and Edna Turner
 Address Glenville, WV
 Mineral Owner E.D. Fulton et al
 Address Glenville, WV
 Coal Owner E.D. Fulton or his assigns
 Address Gilmer Co., WV
 Coal Operator None
 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 deepening. This permit shall expire if operations have not commenced by 2-20-79.

INSPECTOR
 TO BE NOTIFIED Paul Goodnight
 ADDRESS Smithville, WV 26178
 PHONE 477-3660

Deputy Director - Oil & Gas Division

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 Sept. 1 1909 by E.D. Fulton made to Charles Swisher and recorded on the 1st day of January 1915 in Gilmer County, Book 73 Page 71

NEW WELL XX DRILL DEEPER REDRILL FRACTURE OR STIMULATE
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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
 ECONOMIC SURVEY
 P. O. BOX 879
 MORGANTOWN, WEST VIRGINIA 26505
 AC-304 - 292-6331

Address
 of
 Well Operator

Very truly yours,
 (Sign Name) Tom Cullady
 Well Operator
 P.O. Box 67
 Street
Glenville
 City or Town
West Virginia
 State

*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 filing 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

GIL-3376-DD PERMIT NUMBER
 47 021

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by Tom Cullady

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

PROPOSED WORK ORDER TO _____ DRILL XX DEEPEN _____ FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME S.W. Jack Drilling NAME John Mork
 ADDRESS Buckhannon, WV ADDRESS P.O. Box 67, Glenville, WV
 TELEPHONE 472-2161 TELEPHONE 462-8118
 ESTIMATED DEPTH OF COMPLETED WELL: 6500 ft. ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS x 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	400	400	Surface
7			
5 1/2			
4 1/2	6500	6500	250 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER None FEET
 APPROXIMATE COAL DEPTHS 50 feet
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

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.

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