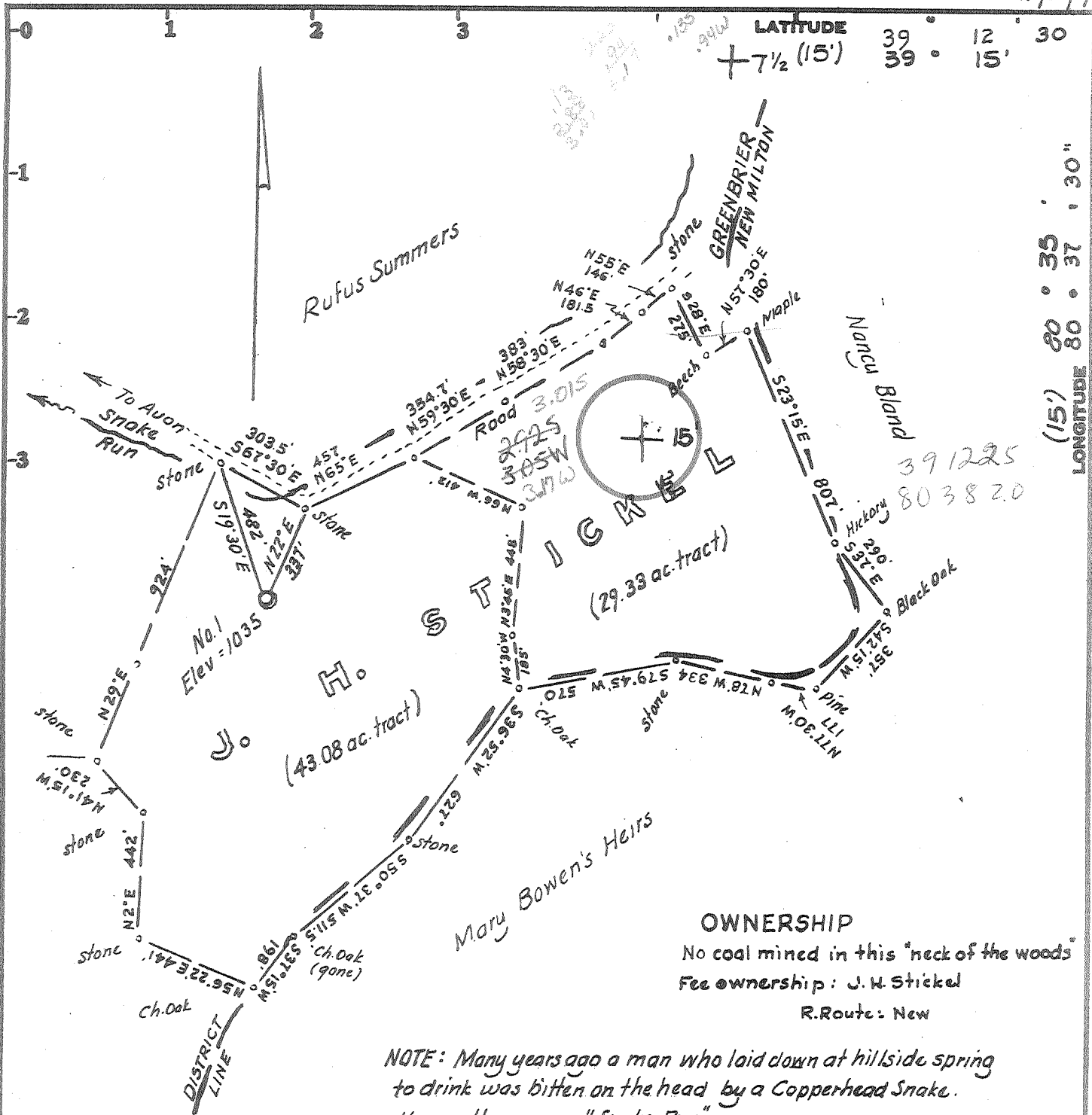


10/5/79



LATITUDE 39° 12' 30" + 7 1/2 (15') 39° 15'

LONGITUDE 80° 37' 30" (15') 80° 35'

OWNERSHIP
 No coal mined in this "neck of the woods"
 Fee ownership: J. H. Stickel
 R. Route: New

NOTE: Many years ago a man who laid down at hillside spring to drink was bitten on the head by a Copperhead Snake. Hence the name "Snake Run"

Minimum Error of Closure 1 in 200'
 Source of Elevation USGS elev on road at mouth of Snake Run = 874

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: W. H. Stickett
 Map No. _____ Squares: N S E W

Company EASTERN AMERICAN ENERGY CORP.
 Address P.O. Box 67, Glenville, West Virginia
 Farm J. H. Stickel Fern Bartlett surf.
 Tract _____ Acres 72.41 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1035
 Quadrangle New Milton 7 1/2 Yadis 15' NC
 County Doddridge District _____
 Engineer W. H. Stickett
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date Oct 2, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 47-017-2499

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown. 62,500
 OCT 22 1979

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

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

Date: November 27, 1979

FORM IV-35
(Obverse)

Operator's Eastern American
Well No. H. Stickel #1

WELL OPERATOR'S REPORT

API Well No. 47 - 017 - 2499
State County Permit

[68-78]

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 X / Shallow ___)
LOCATION: Elevation: 1035 Watershed: Snake Run
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Eastern American Energy Corporation DESIGNATED AGENT James C. Recht
Address P.O. Box N Address P.O. Box #67
Glenville, WV 26351 Glenville, WV 26351

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 October 5, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Address 321 Beech Street
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5250 feet
Depth of completed well, 5612 feet Rotary X / Cable Tools ___
Water strata depth: Fresh 6 11 feet; salt, NA feet.
122-124/133-136/141-149/700-705
Coal seam depths: _____ Is coal being mined in the area? No
Work was commenced 10/11, 19 79, and completed 11/14, 19 79

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	NONE							Kinds NONE
Fresh water	8-5/8	J55	20 lb.	1120			1120 ft.	250 sks.
Gal	NONE							Sizes
Intermediate	NONE							
Production	4-1/2	J55	9.5 lb.	5481			5481 ft.	250 sks.
Tubing	1-1/2	H50	2.5 lb.	4600			4600 ft.	
liners								Perforations:
								Top Bottom
								4520 - 5361

OPEN FLOW DATA

Comingled:
Producing formation Sand & Devonian Shale 5297-5389 Pay zone depth 5002 - 5012 feet
Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, 0 Bbl/d
After frac Final open flow, 130 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1075 psig (surface measurement) after 24 hours shut in
[If applicable due to multiple completion--]
Second producing formation N/A Pay zone depth _____ 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
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

SEP 16 1980

[08-78]

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

- 1st Stage: Perf w/0.49 holes @ 5310, ^{Alex}5311, 5313, 5324, 5329, 5353, 5361.
Frac w/395 BBLs H₂O laden with 30,000 lbs. 80/100 sand, 30,000 lbs. 20/40 sand, 15 lbs/1000 gals. J-266, Freflo, F-52, 1% KCl, 500 gals. HCl.
- 2nd Stage: Perf w/0.39 holes @ 5006-5008; ^{Benson} Frac w/310 BBLs H₂O laden with 20,000 lbs. 80/100 sand, 20,000 lbs. 20/40 sand, 20 lbs./1000 gals J-266, 1% KCl, Freflo, F-52, 500 gals. 15% HCl.
- 3rd Stage: Perf w/0.49 holes @ 4520, 4522, 4528, 4530, 4536, 4538. ^{Bradford} Frac w/303 BBLs H₂O laden with 20,000 lbs. 80/100 sand, 20,000 lbs. 20/40 sand, 20 lbs./1000 gals. J-266, 1% KCl, Freflo, F-52, 500 gals. 15% HCl.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface Clay			0	5	
Red Rock & Shale			5	15	1/2" Stream of Water @ 11'
Sand & Shale			15	18	
Sand			57	81	
Sand & Shale			81	122	
Coal			122	124	
Sand & Shale			124	133	
Coal			133	136	
Sand			136	141	
Coal			141	149	
Sand			149	241	
Shale			241	290	
Sand			290	310	
Sand & Shale			310	373	
Shale & Red Rock			373	508	
Sand & Shale			508	700	
Coal			700	705	
Sand & Shale			705	728	
Sand			728	794	
Sand & Shale			794	882	
Sand			882	891	
Sand & Shale			891	1025	
Shale & Red Rock			1025	1049	
Sand			1049	1190	
Sand & Shale & Red Rock			1190	2019	Top E - Log @ 2,000'
Little Lime			2019	2043	
Shale			2043	2069	
Big Lime			2069	2141	
Big Injun			2141	2216	
Sand & Shale			2216	2304	
Weir			2304	2390	
Sand & Shale			2390	5002	
Sand & Devonian Shale			5002	5012	
Sand & Devonian Shale			5012	5614	T.D. @ 5,614'

(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."

[08-78]

Operator's Eastern American
Well No. J.H. Stickle #1

OIL AND GAS WELL PERMIT APPLICATION

API Well No. 47 - 017 -2499
State WV County _____ Perm _____

WELL TYPE: Oil _____ / Gas X /
(If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____)

LOCATION: Elevation: _____ Watershed: Snake Run

District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Eastern American Energy Corporation
dba Pacific States Gas & Oil, Inc. DESIGNATED AGENT James C. Recht

Address P.O. Box N
Glenville, WV 26351

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

OIL & GAS ROYALTY OWNER Fern Bartlett, et al.

COAL OPERATOR None

Address 3115 Pleasantville Rd. NE
Pleasantville, Ohio

Address _____

Acreage 72.5

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Herman Stickle

Name _____

Address Rt. #1, Box #207
New Milton, WV

Address _____

Acreage 72.5

Name _____

FIELD SALE (IF MADE) TO:

Address _____

Name _____

Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED

Name _____

Name Paul Garrett

Address _____

Address 321 Beech Street

Clarksburg, WV 26301
Phone: 622-3871

RECORDED
OCT 5 1979

OIL & GAS DIVISION
DEPT. 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 Sept. 28, 1979, undersigned well operator from Clarence Mutschelknaus

[If said deed, lease, or other contract has been recorded:]

Recorded on October 2, 1979, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 111 at page 323. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____ /
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
1619 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

Eastern American Energy Corporation
Well Operator

By F.H. McCullough III

Its Vice President

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, Inc.
Address Buckhannon, WV 26201
Phone: 472-2161

GEOLOGICAL TARGET FORMATION, Devonian Shale

Estimated depth of completed well, 5250 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, UNKNOWN feet; salt, feet.

Approximate coal seam depths: UNKNOWN Is coal being mined in the area? Yes / No X /

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	20	J-55	94 lb		x	25	0	0	Kinds
Fresh water	8-5/8	J-55	20 lb	x		1400	1400	Surface	
Coal									Sizes
Intermediate									
Production	4 1/2	CW	10.5	x		5250	5250	300 sks.	Depths set
Tubing	1 1/2	H-40	2.5	x		----	4800		
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.

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 6-5-80.

John R. Allen

Deputy Director - Oil & Gas Division

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