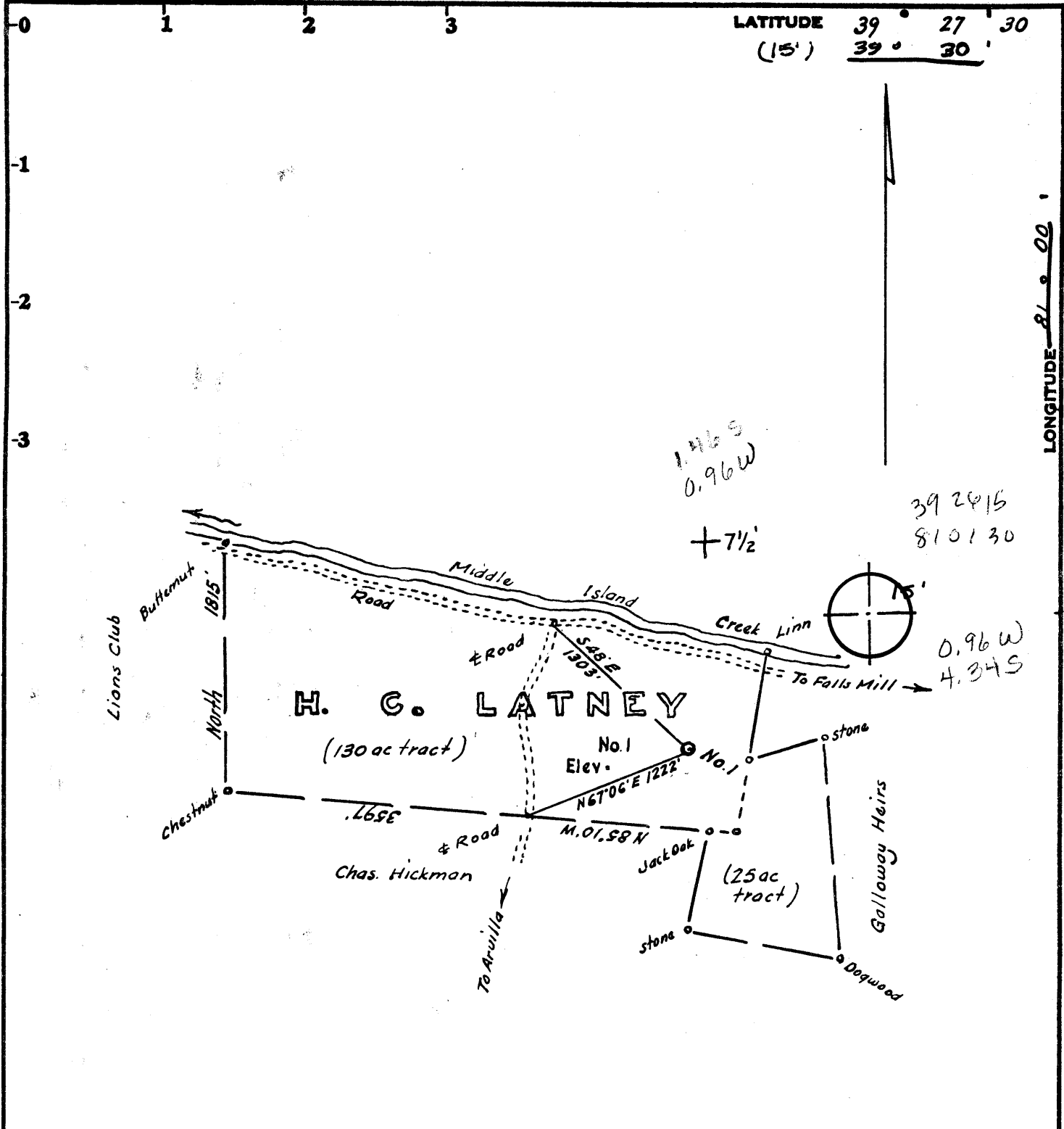


alcher



Minimum Error of Closure lin 200'
 Source of Elevation USGS B.M. at Arvilla - 636

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

Signed: W. S. Hester
 Squares: N S E W

Map No.

Company SECURITY GAS & OIL INC.
100 BUSH STREET SUITE 2801
 Address SAN FRANCISCO CA. 94104
 Farm H.C. Latney
 Tract _____ Acres 155 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 757' NE
 Quadrangle Bears Run 7 1/2, ST. MARYS
 County Tyler District Union
 Engineer W. S. Hester
 Engineer's Registration No. 1227 445 200
 File No. _____ Drawing No. _____
 Date May 21, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP
 FILE NO. TYL-668

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{24,000}/_{62,500} latitude and longitude lines being represented by border lines as shown. AUG 18 1978

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

47-095



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division DEPT. OF MINES

APR 14 1930

WELL RECORD 13

Quadrangle Bens Run 7 1/2
Permit No. 47-095-0668

Rotary _____ Oil _____
Cable xx Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Company Security Gas & Oil Inc.
Address 417 1/2 Second Street St. Marys, W. Va.
Farm E. & H. C. Lathey Acres 197.42
Location (waters) Middle Island
Well No. 1 Elev. 757
District Union County Tyler
The surface of tract is owned in fee by H. C. & G. E. Lathey
Address Friendly, W. Va.
Mineral rights are owned by Same
Address Same
Drilling Commenced 8-16-78
Drilling Completed 10-5-78
Initial open flow 30,000 cu. ft. 7 bbls.
Final production 30,000 cu. ft. per day 0 bbls.
Well open 24 hrs. before test 870 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
2 1/2 10 3/4	203	203	Cement to Surface
8 5/8	899	899	
7	1610	1610	Pulled
5 1/2			
4 1/2	2676	2676	250 Sacks
3			
xx 1 1/2	2630	2630	No Cement
Liners Used			

Well treatment details: Attach copy of cementing record.
Perforations 2592 - 2598 1/2 Holes (12) 500 Gal HCL 71,400 Gal Water
50,000# 2040 Sand 25 Gal. Anacide 25 Gal 15N 25 Gal. Cla Stay
350# WAC 10 600# WG12

Coal was encountered at 0 Feet 0 Inches
Fresh water 45 Feet 0 Salt Water 0 Feet 0
Reducing Sand Gordon Depth 2587-2605

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Clay	Red	Soft	0	40		
Sandstone	Gray	Hard	40	50		
Shale	Gray	Soft	50	110		
Sand	White	Hard	110	190		
Shale	Gray	Hard	190	193		
Sand	White	Hard	193	211		
Shale	Red	Soft	211	217		
Shale	Gray	Soft	217	279		
Shale	Red	Soft	279	320		
Shale	Gray	Hard	320	367		
Shale	Red	Soft	367	377		
Shale	Gray	Soft	377	546		
Shale	Red	Soft	546	561		
Shale	Gray	Hard	561	580		
Shale	Red	Soft	580	694		
Shale	Gray	Hard	694	710		
Shale	Red	Soft	710	803		
Shale	Gray	Soft	803	845		
Shale	Red	Soft	845	864		
Sand	White	Soft	864	880		
Shale	Gray	Hard	880	888		
Sand	Gray	Hard	888	954		
Shale	Gray	Hard	954	961		
			961	1009		

Indicates Electric Log tops in the remarks section.

(over)

MAY 15 1930

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand	White	Hard	1009	1069		
Shale	Gray	Soft	1069	1134		
Lime	Gray	Hard	1134	1139		
Shale	Gray	Hard	1139	1176		
Sand	White	Soft	1176	1205		
Shale	Gray	Soft	1205	1258		
Sand	White	Soft	1258	1263		
Shale	Gray	Soft	1263	1298		
Sand	Gray	Soft	1298	1315	Show Oil	1686
Shale	Gray	Soft	1315	1413	Show Oil	1729
Sand	Gray	Hard	1413	1460	Gas	1885
Shale	Gray	Soft	1460	1505		
Sand	Gray	Hard	1505	1557		
Shale	Gray	Soft	1557	1572		
Lime	Brown	Hard	1572	1647		
Sand & Lime	Gray	Hard	1647	1654		
Shale	Gray	Hard	1654	1666		
Sand	Gray	Hard	1666	1816		
Shale	Gray	Soft	1816	1926		
Sand & Shale	Gray	Hard	1926	1950		
Shale	Gray	Soft	1950	2000		
Sand & Shale	Gray	Hard	2000	2126		
Shale	Gray	Soft	2126	2168		
Sand & Shale	Gray	Hard	2168	2210		
Shale	Gray	Soft	2210	2270		
Shale & Sand	Gray	Hard	2270	2280		
Shale	Gray	Soft	2280	2294		
Sand & Shale	Gray	Hard	2294	2402		
Shale	Gray	Soft	2402	2426		
Sand & Shale	Gray	Hard	2426	2550		
Shale	Gray	Soft	2550	2578		
Sand & Shale	Gray	Hard	2578	2605		
Shale	Gray	Soft	2605	2764 TD	Show Oil	2591

Date April 11 1935
 APPROVED [Signature] Owner
 By [Signature] (Total) Region



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

APR 14 1980
OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 13

Quadrangle Bens Run 7 1/2
Permit No. 47-095-0668

Rotary _____ Oil _____
Cable XX Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

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E.&H. C. Lathey Acres 197.42
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Cond. 13-10"			
15/8 10 3/4	203	203	Cement to Surface
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4 1/2	2676	2676	250 Sacks
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2 1/2 1 1/2	2630	2630	No Cement
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Attach copy of cementing record.

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Sand	White	Hard	880	888		
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Sand	Gray	Hard	954	961		
Shale	Gray	Hard	961	1009		

Indicates Electric Log tops in the remarks section.

(over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
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Shale	Gray	Soft	2126	2168		
Sand & Shale	Gray	Hard	2168	2210		
Shale	Gray	Soft	2210	2270		
Shale & Sand	Gray	Hard	2270	2280		
Shale	Gray	Soft	2280	2294		
Sand & Shale	Gray	Hard	2294	2402		
Shale	Gray	Soft	2402	2426		
Sand & Shale	Gray	Hard	2426	2550		
Shale	Gray	Soft	2550	2578		
Sand & Shale	Gray	Hard	2578	2605		
Shale	Gray	Soft	2605	2764 TD	Show Oil	2591

Date April 11 19 50
APPROVED [Signature] Owner
By [Signature] (Title) Region



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED
AUG 02 1978
OIL & GAS DIVISION
DEPT. OF MINES

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

Surface Owner H. C. & G. E. Lathey
Address Rt. #1, Friendly, W. Va.
Mineral Owner Same
Address Same
Coal Owner Same
Address _____
Coal Operator N/A
Address _____

DATE August 1, 1978
Company Security Gas & Oil Co., Inc.
Address 100 Bush St., Suite 2301
San Francisco, Ca. 94104
Farm H. C. Lathey Acres 197.42 (155 show)
Location (waters) Middle Island
Well No. 1 (one) Elevation 757
District Union County Tyler
Quadrangle: Bens Run 7 1/2

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 12-3-78.

[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Philip Tracy
ADDRESS Middlebourne, W.Va.
PHONE 1-304-758-4573

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 10 19 78 by H.C.&G.E. Lathey made to Frank E. Pethel and recorded on the 11th day of May 19 78, in Tyler County, Book 215 Page 433

XX 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:

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) [Signature]
Well Operator
Security Gas & Oil Co., Inc.
Street
100 Bush St., Suite 2301
City or Town
San Francisco, Ca. 94104
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.

BOND DRILL

TYL-668 _____ PERMIT NUMBER

"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]

47-095

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

PROPOSED WORK ORDER TO XX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Pethtel Drilling NAME Burl W. Smith
 ADDRESS Frank E. Pethtel Newport, Ohio ADDRESS Rt. 39 St. Marys, W.Va. 26170
 TELEPHONE 614-473-2839 45768 TELEPHONE 304-684-7259
 ESTIMATED DEPTH OF COMPLETED WELL: 2800ft. ROTARY _____ CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL _____ GAS _____ COMB. XX 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	200'	200'	65 sacks
9 - 5/8			
8 - 5/8	900'		
7	1600'		
5 1/2			
4 1/2	2800'	2800'	140 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 125 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS None _____
 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