



Fee ownership is vested in
 O. C. Langford
 Rural Route, Bens Run, W. Va.

Minimum Error of Closure 1 in 200
 Source of Elevation Elev. Well No. 1 (Location) = 672

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.

- Fracture
- New Location
- Drill Deeper
- Abandonment

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

Company SECURITY OIL & GAS INC.
 Address 117200 St. Marys St. St. Marys WV 2610
110 Bush St - Suite 2301, San Francisco, Cal.
 Farm O. C. Langford, et al
 Tract _____ Acres 103.5 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 687 NE
 Quadrangle Bens Run 7 1/2', St Marys 15'
 County Pleasants District Union
 Engineer W. Adair
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date March 30, 1979 Scale 1" = 500'

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

WELL LOCATION MAP
 FILE NO. 47-073-0770

+ Denotes location of well on United States Topographic Maps, scale 1 to ^{25,000}/_{62,500}, latitude and longitude lines being represented by border lines as shown.

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

JUN 21 1979



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 32

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

Quadrangle Bens Run 7.5 min.
 Permit No. 47-073-0770

Company Security Gas & Oil Inc
 Address 417 1/2 Second St., St. Marys, WV
 Farm O.C. Langford Acres 103.5
 Location (waters) Middle Island Creek
 Well No. #2 Elev. 687'
 District Union County Pleasants
 The surface of tract is owned in fee by O.C. Langford
 Address Rt #1 Friendly, WV
 Mineral rights are owned by same
 Address _____
 Drilling Commenced 6-27-79
 Drilling Completed 7-10-79
 Initial open flow 300,000 cu. ft. 5 bbls.
 Final production 30,000 cu. ft. per day 32 1/2 bbls.
 Well open 2 hrs. before test 750 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8	<u>776'</u>		Cement to surf.
7			
5 1/2			
4 1/2		<u>2965'</u>	390 Sacks
3			
2		<u>2600</u>	
Liners Used			

Well treatment details: Attach copy of cementing record.
49,770 gals. H2O, 20,000 lbs 80-100 Fract Sand, 84,500 lbs 20-40 Frac Sand, 330 gals. Super J., 700 lbs WAC 10, 150,000 cu. ft. Hydrogen 40 gal. Clay Sta, 700 lbs. WG 12 54 gal. Frac Flow, CS

Coal was encountered at 0 Feet 0 Inches
 Fresh water 0 Feet 0 Salt Water 0 Feet 0
 Producing Sand Gordon Depth 2524-2540

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sandstone	Gray	Hard	0	16		
Clay	Yellow	Soft	16	36		
Sandstone	Gray	Hard	36	65		
Shale	Gray	Soft	65	210		
Shale	Red	Soft	210	320		
Sandstone	Gray	Hard	320	385		
Shale	Gray	Soft	385	450		
Sandstone	Gray	Hard	450	500		
Shale	Gray	Soft	500	600		
Sandstone	Gray	Hard	600	635		
Shale	Red	Soft	635	745		
Sandstone	Gray	Hard	745	765		
Shale	Red	Soft	765	885		
Sandstone	Gray	Hard	885	895		
Shale	Gray	Soft	895	920		
Sandstone	Gray	Hard	920	975		

Handwritten signature
 JUN 12 1980
 OIL & GAS DIVISION
 DEPT. OF MINES

(over)

Formation	Color	Hard or Soft	Top Feet 32	Bottom Feet	Oil, Gas or Water	Remarks
Shale	Gray	Soft	975	1075		
Sand	White	Hard	1075	1130		
Shale	Gray	Soft	1130	1150		
Sand	White	Hard	1150	1170		
Shale	Gray	Soft	1170	1200		
Sand	White	Hard	1200	1285		
Shale	Gray	Soft	1285	1355		
Sand	White	Hard	1355	1380		
Shale	Gray	Soft	1380	1445		
Lime	Brown	Hard	1445	1580		
Shale	Gray	Soft	1580	1605		
Sand	Gray	Hard	1605	1755		
Shale	Gray	Soft	1755	2035		
Sand/Shale	Gray	Hard	2035	2070		
Shale	Gray	Soft	2070	2330		
Sand/Shale	Gray	Hard	2330	2390		
Shale	Gray	Soft	2390	2524		
Sand/Shale	Gray ^{carbon}	Hard	2524	2565		
Shale	Gray	Soft	2565	2969		TD

Date June / 3 19 80

APPROVED Security Gas & Oil Inc. Owner
 By Frank E. Pettit
 Vice-President of Appalachian Region
 (7110)

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. U. S. Longford #2
API Well No. 47 - 073 - 0770
State County Permit

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

LOCATION: Elevation: 800' Watershed: Middle Island Creek
District: Union County: Pleasants Quadrangle: Zone 70

WELL OPERATOR Security Gas & Oil Inc.
Address 300 Main St. Suite 200
200 Fayette, W.V.
4170 Board St. St. James, W.V.

DESIGNATED AGENT Paul W. Smith
Address Zone 70
St. James, W.V. 26120

OIL & GAS ROYALTY OWNER U. S. Longford
Address Zone 1
Friendly, W.V.

COAL OPERATOR None
Address

ACREAGE
SURFACE OWNER None
Address
ACREAGE

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name None
Address
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Phillip Brocay
Address Marlinton, W.V.
1-304-750-4373

RECEIVED
JUN - 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 / dated Dec. 1, 1978, to the undersigned well operator from U. S. Longford

[If said deed, lease, or other contract has been recorded:]
Recorded on Dec. 11, 1978, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in Book 151 at page 180. A permit is requested as follows:

PROPOSED WORK: Drill / 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

BLANKET BOND

Security Gas & Oil Inc.

Well Operator

By Frank E. Pettit

[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) Littlefield Drilling Company

Address P.O. Box 1
Zachary, LA 70301

GEOLOGICAL TARGET FORMATION, Carboniferous

Estimated depth of completed well, 3000 feet Rotary 2 1/2 / Cable tools /

Approximate water strata depths: Fresh, 125 feet; salt, feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

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	8 5/8		30lb. x			250*	250*	37 sacks	Kinds
Fresh water									
Coal									Sizes
Intermediate									
Production	4 1/2		10.5 x				3000*	300 sacks	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 the Form IV-2 filed in connection therewith.

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 2-6-80

[Signature]
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