

New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 in 200
 Source of Elevation U.S.G.S. BM Elev 729' Route 33

"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 is section of the mining laws of West Virginia"

BURDETTE OIL AND GAS COMPANY
 73 Spring St. Charleston, W.Va. 25302

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

WELL LOCATION MAP
 FILE NO. Jac-1308-P

Farm LEWIS R. BROTHERTON
 Tract Acres 26 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 844.0
 Quadrangle RAVENSWOOD EC
 County JACKSON District UNION
 Engineer N. L. Sefton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 8-14-71 Scale 1" = 300'

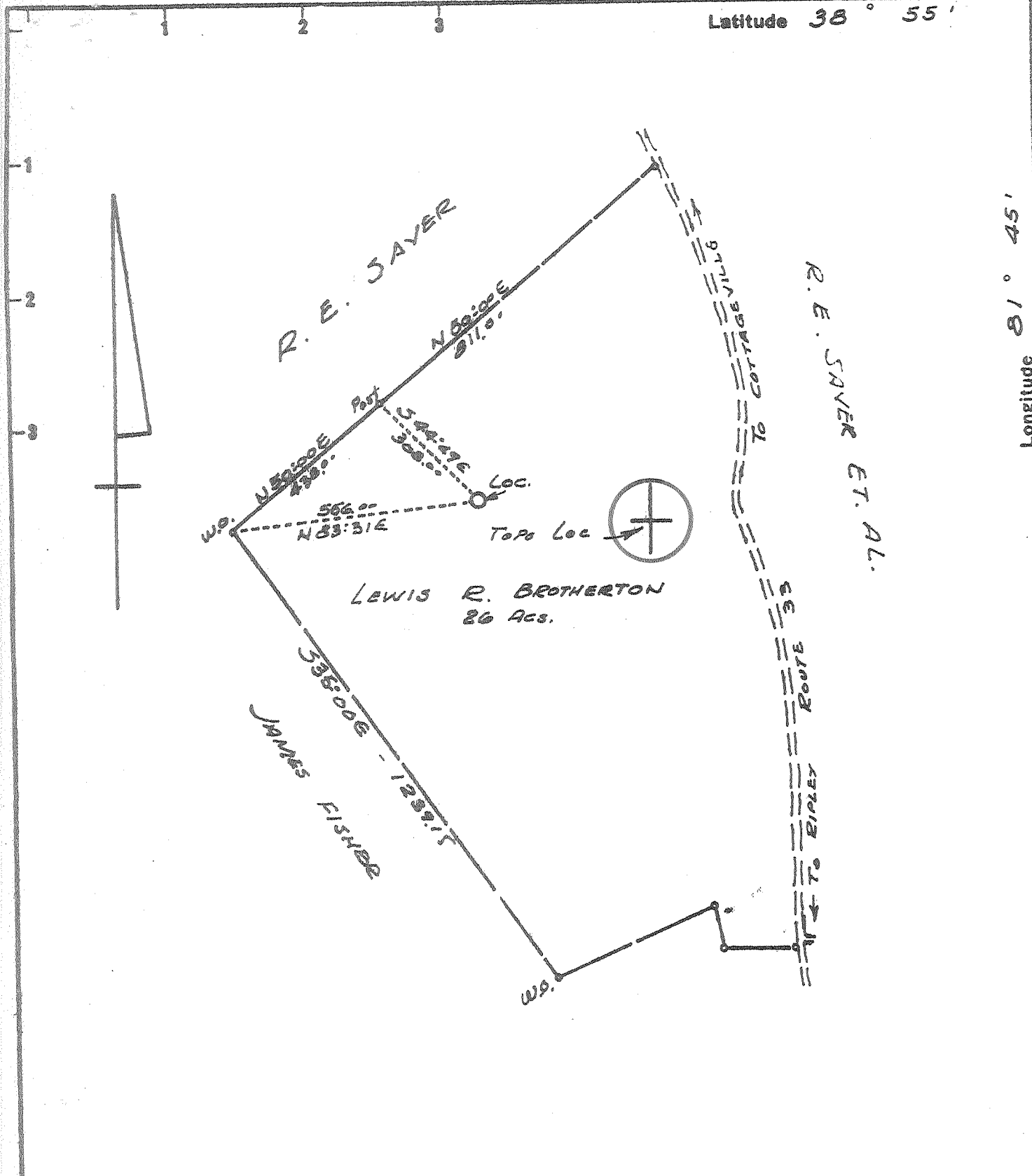
+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

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

47-035

Latitude 38° 55'

Longitude 81° 45'



New Location
 Drill Deeper
 Abandonment
 Issued 3/12/74

Minimum Error of Closure 1 in 200
 Source of Elevation U.S.G.S. BM Elev 729' Route 33

"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."

Resource Exploration, Inc.
 Company COLONIAL GAS COMPANY
 Suite 405, 1600 Fairfield Ave. Charleston, W.V. 25301
 Address CHAS. HATE, OWNER, CHARLESTON, W.V.

Farm LEWIS R. BROTHERTON
 Tract _____ Acres 26 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 844.0
 Quadrangle RAVENSWOOD EC
 County JACKSON District UNION
 Engineer N. L. Sifton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 8-14-71 Scale 1" = 300'

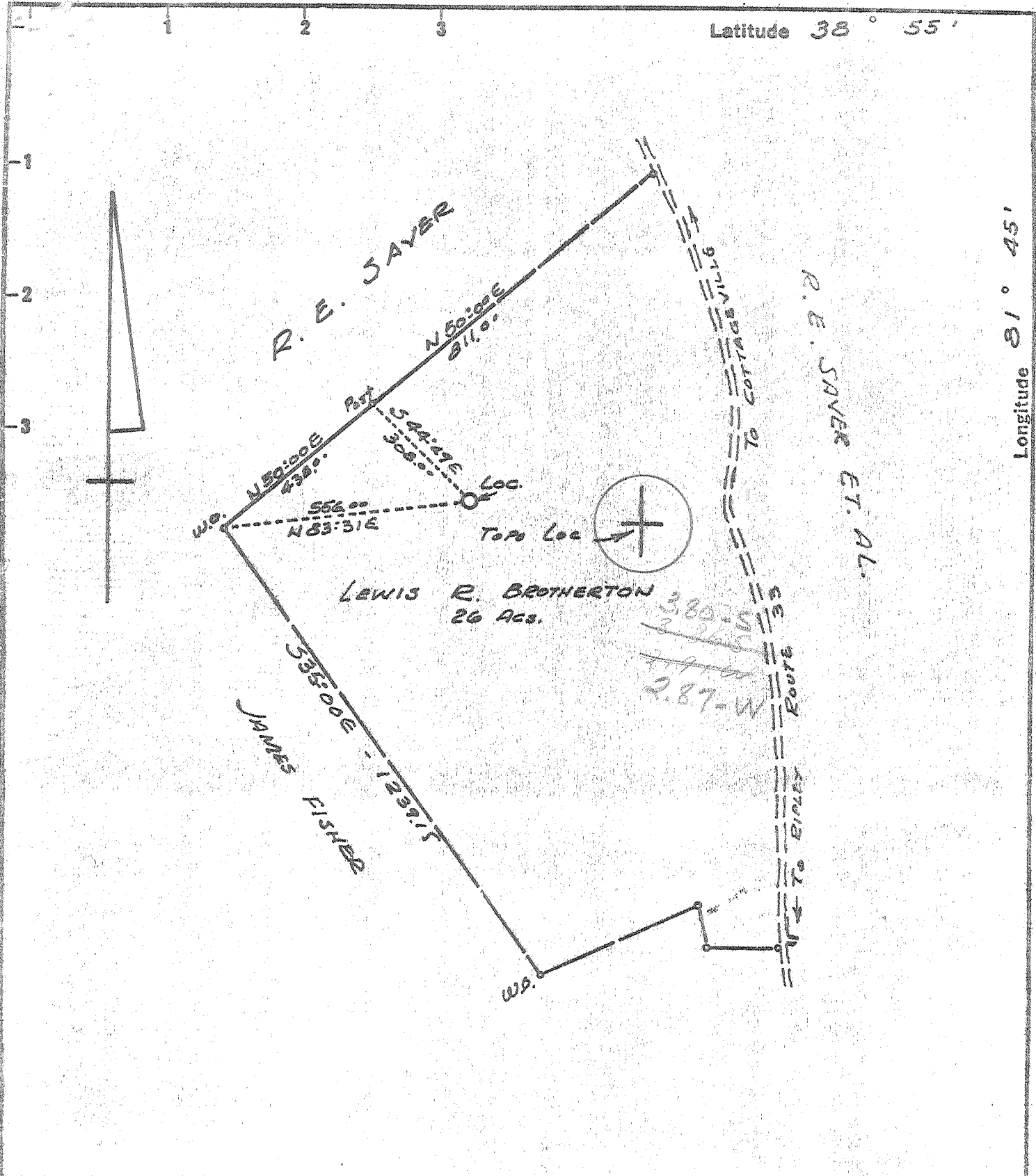
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Jac-1308-P

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47-035
 Deep well MAR 26 1974



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 in 200
 Source of Elevation U.S.G.S. BM Elev 729' Route 39

"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 COLONIAL GAS COMPANY
 Address CHAS. NATL. PLAZA, CHARLESTON, W.VA.
 Farm LEWIS R. BROTHERTON
 Tract _____ Acres 26 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 844.0
 Quadrangle RAVENSWOOD EC
 County JACKSON District UNION
 Engineer N. L. Sefton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 8-14-71 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. Jac-1308

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RECEIVED
OCT 12 1971

39-00
6-4/2

OIL & GAS DIVISION
STATE OF WEST VIRGINIA DEPT. OF MINES
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

- Rotary Driller
- Cable Tools
- Storage
- Oil or Gas Well Gas (KIND)

Quadrangle Ravenswood
Permit No. Jac-1308

WELL RECORD

Company Colonial Gas Company
Address 1025 Charleston National Plaza, Charleston
Farm Lewis R. Brotherton Acres 26
Location (waters) _____
Well No. One Elev. 866 KB
District Union County Jackson
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced Aug. 31, 1971
Drilling completed Sept. 28, 1971
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume Est. 5 MM Natural Cu. Ft.
Rock Pressure 2075 lbs. hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) 500 Gal
15% Acid
WELL FRACTURED (DETAILS) Yes; 20,000 lb. 20-40 Sand
650 BBL J160 Dowell Treated Water
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 27,500,000 MCF
ROCK PRESSURE AFTER TREATMENT 2075 HOURS 12 Hrs.
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Newburg Depth 5258 - 5264

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
<u>11-3/4</u>	<u>248</u>	<u>248</u>	Depth set
8 1/4			
8 1/4 <u>7 1/2</u>	<u>2427</u>	<u>2427</u>	Perf. top
5 3/16			Perf. bottom
4 1/2	<u>5229</u>	<u>5229</u>	Perf. top
3			Perf. bottom
2			
Liners Used			

Attach copy of cementing record. **See other side**
CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
Amount of cement used (bags) _____
Name of Service Co. Jones Cementing, Halliburton
COAL WAS ENCOUNTERED AT None FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Red Rock			10	50			
Shale			50	140			
Sand			140	170			
Shale			170	250			
Red Rock			250	290			
Shale			290	305			
Red Rock			305	370			
Shale			370	380			
Red Rock			380	405			
Sand			405	430			
Shale			430	500			
Red Rock			500	540			
Sand			540	570			
Shale			570	610			

(over)

Formation	Color	Hard or Soft	Top γ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			610	660			
Shale			660	800			
Sand			800	846			
Shale			846	910			
Sand			910	1050			
Shale			1050	1110			
Sand - Big Dunkard?			1110	1190			
Shale			1190	1225			
Sand			1225	1260			
Shale			1260	1330			
Sand			1330	1420			
Shale			1420	1470			
Sand			1470	1520			
Shale			1520	1560			
Sand			1560	1590			
Shale			1590	1690			
Sand			1690	1760			
✓ Limestone - Big Line			1760	1885			
✓ Big Injun			1885	1990			
Shale			1990	2360			
✓ Coffee Shale			2360	2380			
✓ Berea			2380	2385			
Shale			2385	4498			
✓ Corniferous Lm. - 463			4498	4586			
✓ Oriskany Sand			4586	4590			
✓ Limestone & Dolomite - HELDERBERG & SALINA			4590	5258			
✓ Newburg Sand			5258	5264			
✓ Dolomite - MCKENZIE			5264	5274			
				5274 TOTAL DEPTH			
				545			
<u>CASING RECORD</u>							
11-3/4" Casing @ 248' w/125 sx. 9/3/71							
7" Casing @ 2427' w/100 sx. 9/14/71							
4-1/2" Casing @ 5229' w/150 sx. 9/23/71							

Date Oct 7, 19 71
APPROVED Colonial Gas Co. Owner
By B. A. [Signature] General Mgr.
(Title)