



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
JUN - 5 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

RE

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

Surface Owner Glenville State College
Address Glenville, WV 26351
Mineral Owner B.S. Messenger
Address Baldwin, WV
Coal Owner B.S. Messenger or his assigns
Address Baldwin, WV
Coal Operator None
Address _____

DATE June 1, 1978
Company Pacific States Gas & Oil, Inc.
Address P.O. Box 67, Glenville, WV
Farm B.S. Messenger Acres 100
Location (waters) Stewart's Creek
Well No. P.S. #4 Elevation 1178
District Glenville County Gilmer
Quadrangle Glenville

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 10-5-78

Robert H. Cook
Secretary Director - Oil & Gas Division

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

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 April 15 1938 by B. S. Messenger made to Pitts. & WV Gas Co. and recorded on the 4 day of May 1938, in Gilmer County, Book 138 Page 88
 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) *Robert H. Cook*
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 (10) days 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.

GIL-3038 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 *Robert H. Cook*

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

PROPOSED WORK ORDER TO DRILL 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: 5250 ROTARY CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL GAS 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	200 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 100 ft.
 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. 02/16/2024

For Coal Company

Official Title

RECEIVED

JUN - 5 1978

**OIL & GAS DIVISION
DEPT. OF MINES**

02/16/2024



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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NOV 13 1978

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Glenville 7 1/2

Permit No. GIL-3038

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

Company Pacific States Gas & Oil, Inc.
Address P.O. Box 67, Glenville, WV
Farm B.S. Messenger Acres 100
Location (waters) Stewart's Creek
Well No. P.S. #4 Elev. 1178
District Glenville County Gilmer
The surface of tract is owned in fee by _____
Glenville State College
Address Glenville, WV
Mineral rights are owned by B.S. Messenger
_____ Address Baldwin, WV
Drilling Commenced 6/7/78
Drilling Completed 6/12/78
Initial open flow N/A cu. ft. _____ bbls.
Final production 1200 cu. ft. per day _____ bbls.
Well open 4 hrs. before test 1825 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	401	401	125 sks
7			
5 1/2			
4 1/2	5133	5133	175 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Perf: 7 - 0.49" holes @ 5047, 4999, 4983, 4979, 4977, 4965, 4944
6 - 0.39" holes From 4615-4613
Frac: 1st stage: 750 gal 15% HCL 575 BBL H2O 20,000 lbs. 80/100 sand 40,000 lbs. 20/40 sand
350 lbs. WG-12 12.5 gal CIA-STA 22.5 gals Pen-5
2nd stage 750 gal 15% HCL 340 BBL H2O 20,000 lbs. 80/100 sand
22,000 lbs. 20/40 sand, 350 lbs. WG=12 12.5 gal CIA-STA 22.5 Pen-5
Coal was encountered at 140-144' Feet 215'-219' Inches
Fresh water 75 ft Feet _____ Salt Water _____ Feet _____
Producing Sand Devonian Shale : Benson 4606-4626 Depth Elk: 4894-5054

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface Sand Shale			0	75		
Red Rock			75	80		
Sand			80	118		
Sand & Shale			118	140		
Coal			140	144		
Sand and Shale			144	215		
Coal			215	219		
Sand			219	253		
Red Rock			253	320		
Shale			320	417		
Sand and Shale			417	435		
Shale and Red Rock			435	462		
Sand and Shale			462	1736		E Log Top
Little Lime			1736	1763		
Blue Monday			1763	1778		
Big Lime			1778	1834		
Keener			1834	1899		
Big Injun			1899	1953		
Shale			1953	1997		
Weir			1997	2126		
Shale			2126	2730		
Fifth Sand			2730	2758		
Shale			2758	4606		
Benson			4606	4626		

02/16/2024

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet ⁹	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			4626	4894		
Elk			4894	5004		
Shale			5004	5154		
TD			5154			

02/16/2024

Date November 7, 1978 19

APPROVED

[Signature]

Owner

By Executive Vice President
(Title)

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

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JUN 14 1978

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 611-3038

Oil or Gas Well _____
(KIND)

Company <u>Pacific States Gas & Oil Inc</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Address _____	Size		
Farm <u>B. S. Messenger</u>	16			Kind of Packer _____
Well No. <u>4</u>	13			
District <u>Glenville</u> County <u>Calmer</u>	10			Size of _____
Drilling commenced <u>6-7-78</u>	8 1/4 <u>8 3/8</u>		<u>417</u>	
Drilling completed <u>6-11-78</u> Total depth <u>5154</u>	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16 <u>4 1/2</u>		<u>5100</u>	
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used _____			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED <u>8 3/8</u> SIZE <u>417</u> No. FT. _____ Date _____ <u>down to surface</u>			
Fresh water <u>80</u> feet _____ feet	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Johnson - T. P

Remarks: Cont - S. W. JACK INC. Rotary - Air

Running 4 1/2 csg

6-12-78

[Signature] 505
DISTRICT WELL INSPECTOR

02/16/2024



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DEPARTMENT OF ENERGY
OIL AND GAS

APR 1 1986

State of West Virginia

Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
March 7, 1984

COMPANY Pacific States Gas & Oil, Inc.

PERMIT NO 021-3038 (6-5-78)

P. O. Box 67

FARM & WELL NO B. S. Messenger #4

Glenville, West Virginia 26351

DIST. & COUNTY Glenville/Gilmer

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	_____	_____
25.04	Prepared before Drilling to Prevent Waste	_____	_____
25.03	High-Pressure Drilling	_____	_____
16.01	Required Permits at Wellsite	_____	_____
15.03	Adequate Fresh Water Casing	_____	_____
15.02	Adequate Coal Casing	_____	_____
15.01	Adequate Production Casing	_____	_____
15.04	Adequate Cement Strength	_____	_____
15.05	Cement Type	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
23.07	Requirements for Production & Gathering Pipelines	_____	_____
16.01	Well Records on Site	_____	_____
16.02	Well Records Filed	_____	_____
7.05	Identification Markings	_____	_____

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Craig Duckworth

DATE 3/26/86

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. H. v. B. B.
Administrator - Oil & Gas Division

April 2, 1986

DATE

FEB 28 1979

OIL & GAS DIVISION
DEPT. OF MINES
Category Code

1.0 API well number:
(If not available, leave blank. 14 digits.)

047-021-3038

2.0 Type of determination being sought:
(Use the codes found on the front of this form.)

107
Section of NGPA

3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)

5154 feet

4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)

Pacific States Gas & Oil, Inc. 14358
Name Seller Code
P.O. Box 67
Street
Glenville, W. Va. 26351
City State Zip Code

5.0 Location of this well: [Complete (a) or (b).]

(a) For onshore wells
(35 letters maximum for field name.)

Glenville
Field Name
Gilmer W.VA.
County State

(b) For OCS wells:

Area Name Block Number
Date of Lease:
Mo. Day Yr. OCS Lease Number

(c) Name and identification number of this well: (35 letters and digits maximum.)

B.S. MESSENGER #4

(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)

6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)

Equitable Gas Company #5939
Name Buyer Code

(b) Date of the contract:

1, 0, 1, 7, 7, 5
Mo. Day Yr.

(c) Estimated annual production:

43.0 MMcf.

(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices (Indicate (+) or (-).)	(d) Total (b) and (c)
1.510	0.187	---	1.697
2.116	0.261	---	2.377

7.0 Contract price:
(As of filing date. Complete to 3 decimal places.)

8.0 Maximum lawful rate:
(As of filing date. Complete to 3 decimal places.)

9.0 Person responsible for this application:

James C. Recht Designated Agent
Name Title

Signature

2/22/79
Date Application is Completed

(304) 462-8118
Phone Number

Agency Use Only
Date Received by Juris. Agency
FEB 28 1979
Date Received by FERC

WELL DETERMINATION REPORT

PARTICIPANTS:

DATE: OCT 24 1979

BUYER-SELLER CODE

WELL OPERATOR: Pacific States Gas & Oil, Inc.

014358

FIRST PURCHASER: Equitable Gas Co.

005939

OTHER:

Original for determination of Domestic Status

John L. [unclear]

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER

790228 - 107 - 021 - 3038

*Qualifies per Cause 8
order of J. S. Muzzy*

Use Above File Number on all Communications
Relating to Determination of this Well

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1 FERC-121 Items not completed - Line No.
- 2 IV-1 - Agent James C. Recht
- 3 IV-2 - Well Permit
- 4 IV-6 - Well Plat
- 5 IV-35- Well Record Drilling Deepening
- 6 IV-36- Gas-Oil Test: Gas Only 151 mcf. Was Oil Produced? 0.38 wds. Ratio 40 2333
- 7 IV-39- Annual Production years
- 8 IV-40- 90 day Production Days off Line:
- 9 IV-48- Application for Certification. Complete?
- 10 - 17 IV Form #51 - 52 - 53 - 54 - (55) - 57 - 58. Complete Affidavit Signed
- 18 - 28 Other: Survey Logs Geological Charts Structure Map

1:4000 Map Well Tabulations Gas Analyses

- (5) Date ~~Completed~~ Commenced: 6-7-78 Completed: 6-12-78 Deepened
- (5) Production Depth: 4615-13; 4606-24; 4894-5059
5047; 4999; 4983; 4979; 4977; 4965; 4904
Benson; Benson; Elk
- (5) Production Formation: Shale; Elk
- (5) Final Open Flow:
~~Initial Potential~~ 1200 mcf.
- (5) Final R.P.
~~Static R.P. Initially~~ 1825#
- (6) Other Gas Test:
- (7) Avg. Daily Gas from Annual Production:
- (8) Avg. Daily Gas from 90-day ending w/1-120 days
- (8) Line Pressure: PSIG from Daily Report
- (5) Oil Production: From Completion Report
- (10-17) Does lease inventory indicate enhanced recovery being done: Not indicated
- (10-17) Is affidavit signed? Yes Notarized? Yes

02/16/2024

Does official well record with the Department confirm the submitted information? Yes

Additional Information Does computer program confirm?

Was Determination Objected to? By Whom?

JM

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

Date February 10, 19 79
Operator's Well No. PACIFIC STATES MESSENGER #4
API Well No. 47 - 021 - 3038
State County Permit

WELL CLASSIFICATION FORM

HIGH COST GAS WELL
NGPA Section 107

DESIGNATED AGENT James C. Recht
ADDRESS P.O. Box 67
Glenville, West Virginia 26351
WELL OPERATOR Pacific States Gas & Oil, Inc LOCATION: Elevation 1178
ADDRESS P.O. Box 67 Watershed JAKES RUN
Glenville, W.VA. 26351 Dist. Glenville County Gilmer Quad Glenville
GAS PURCHASER Equitable Gas Company Gas Purchase Contract No. 6645-B
ADDRESS 420 Boulevard of the Allies Meter Chart Code 2-43-25-215799-1
Pittsburgh, Pa. 15219 Date of Contract 10/17/75

* * * * *

Date surface drilling began: 6/7/78

Indicate the bottom hole pressure of the well and explain how this was calculated.

The bottom hole pressure of this well is 2044 psig and was calculated by gauging the static surface pressure and using the standard deviation formula to extrapolate surface pressure to bottom hole pressure.

AFFIDAVIT

I, John Mork, having been first sworn according to law, state that, surface drilling of the well for which this determination is sought was begun after February 19, 1977, the well completion location is in the Devonian Shale section and I have no knowledge of any information not included in the application which is inconsistent with a conclusion that the well qualifies as a high cost natural gas well.

[Signature]
John Mork

STATE OF WEST VIRGINIA.
COUNTY OF Gilmer, TO WIT:

I, James C. Recht, a Notary Public in and for the state and county aforesaid, do certify that John Mork, whose name is signed to the writing above, bearing date the 10 day of February, 19 79, has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 22 day of February, 19 79.
My term of office expires on the 15 day of January, 19 89.

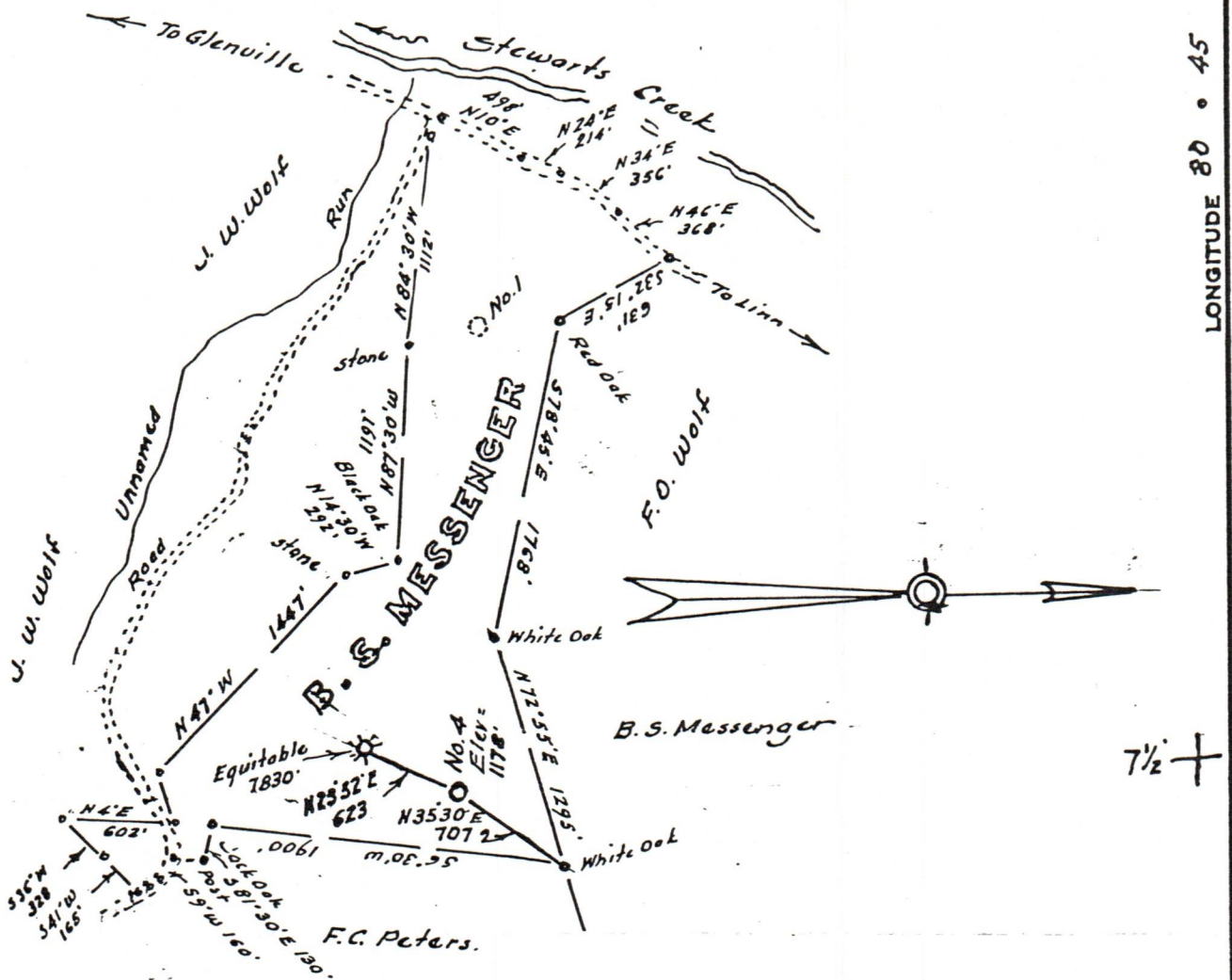
[Signature]
Notary Public

[NOTARIAL SEAL]

02/16/2024

LATITUDE 39° 00'

LONGITUDE 80° 45'



SURFACE: Glenville State College

Minimum Error of Closure 1 in 200'

Source of Elevation Elev Well No. 1 (location) = 992

- 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: [Signature]
Squares: N S E W

Map No.

Company Pacific States Gas & Oil
 Address PO Box 67, Glenville, W. Va.
 Farm B.S. Messenger
 Tract _____ Acres 100 Lease No. _____
 Well (Farm) No. Four Serial No. _____
 Elevation (Spirit Level) 1178
 Quadrangle Glenville 7 1/2
 County Gilmer District Glenville
 Engineer [Signature]
 Engineer's Registration No. 1227 LLS 200
 File No. _____ Drawing No. _____
 Date June 1, 1978 Scale 1" = 1000'

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

WELL LOCATION MAP

FILE NO. 47-0213038
02/16/2024

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

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