



MAY 23 1984

IV-9
(Rev 8-81)

DATE May 21, 1984

WELL NO. Hughart, et al "C" #1, GW-

API NO. 47 - KAN - 2445-P 1661

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Cities Service Oil & Gas Corp.

DESIGNATED AGENT Paul D. Phillips

Address P. O. Box 873

Address P. O. Box 873, Chas., WV 25323

Telephone 304-344-8383

Telephone 304-344-8383

LANDOWNER Damon E. Asbury (surface)
210 - 97th St., Marmet WV 25315
Revegetation to be carried out by _____

SOIL CONS. DISTRICT Capitol SCD

Company Contractor _____ (Agent)

This plan has been reviewed by _____ CAPITOL _____ SCD. All corrections
and additions become a part of this plan: _____ May 24, 1984 _____
(Date)

R. C. Alford
(SCD Agent)

"SEE ATTACHED
COMMENTS"

RECEIVED

JUL - 2 1984

ACCESS ROAD

LOCATION

Structure Ditch Relief Cross Drain (A)

Structure Diversion Ditch (1)

Spacing Per Plan

Material Soil

OIL & GAS DIVISION
DEPT. OF MINES

Page Ref. Manual 2-1, 2-2, 2-3, 2-4 table I

Page Ref. Manual 2-12, & 2-13

Structure Culvert (12" min) (B)

Structure Gel Pit (2)

Spacing Per Plan

Material Earth

Page Ref. Manual 2-7, & 2-8 table #3

Page Ref. Manual _____

Structure _____ (C)

Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* KY-31 Tall Fescue 20 lbs/acre

Seed* KY-31 Tall Fescue 20 lbs/acre

Creeping Red Fescue 20 lbs/acre

Creeping Red Fescue 20 lbs/acre

Redtop 5 lbs/acre

Redtop 5 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacteria. Inoculate with 3X recommended amount.

PLAN PREPARED BY Donald J. Gay

ADDRESS P. O. Box 873

Charleston, WV 25323

PHONE NO. 344-8383

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

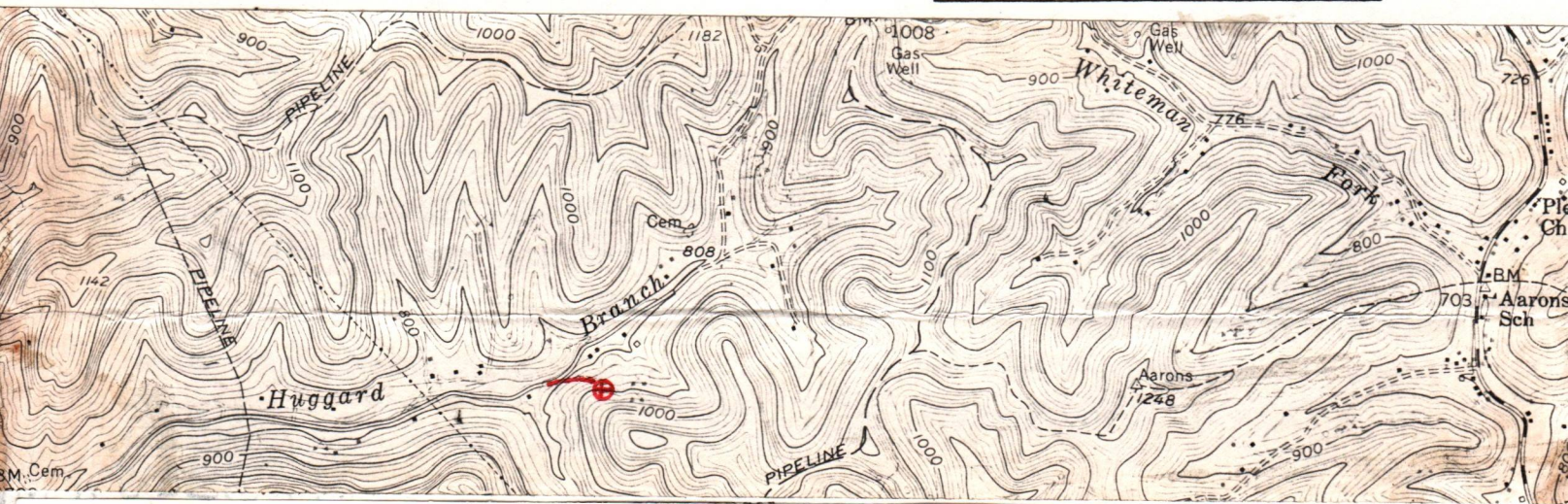
IV-9 REVERSE
(REV 8-81)

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE BIG CHIMNEY 7 1/2'

LEGEND

Well Site ⊕

Access Road ———



RECEIVED
JUL 12 1984
OIL & GAS DIVISION
DEPT. OF MINES
DEPT. OF MINES

09/08/2023

BE INSTALLED IN ALL NATURAL DRAINWAYS.
(1) ONE PERMANENT 12" CULVERT TO BE INSTALLED
AND ONE TEMPORARY CULVERT TO BE INSTALLED 12" D.

H2S SAFETY PROGRAM

PRIORITY: ALL GAS ENCOUNTERED WILL BE FATAL, USE OF GAS MASKS IS MANDATORY!!

1. Flare all gas that is vented to surface. Use continuous pilot on blooie line.
2. Notify contractor that we will be encountering H2S gas. Contractor should furnish own masks.
3. Have Cities Service personnel masks in good working order and on location. (Note 2% limit on cannister masks). Scott Air-Pack is recommended.
4. Monitor wind direction. (Use two wind socks.)

RECEIVED
JUL - 2 1984

OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023

HYDROGEN SULFIDE (H₂S) HEALTH EFFECTS

<u>PERCENT</u>	<u>PARTS PER MILLION</u>	<u>GRAINS PER 100 SCF</u>	<u>HEALTH EFFECTS</u>
0.1	1,000	63	Unconscious at once. Death will result if not rescued promptly.
0.07	700	44	Unconscious quickly. Death can result if not rescued promptly.
0.05	500	31	Loses sense of reasoning and balance. Breathing ceases in a few minutes.
0.02	200	13	Kills sense of smell quickly.
0.01	100	6	Kills sense of smell in 2-15 minutes. Irritates eyes and throat.
0.001	10*	0.6	Safe for 8 hours exposure.
0.0001	1	0.06	Faint but perceptible odor.

*Respirators must be worn for any exposure above 10ppm.

Note: The values in the above table are approximations since physiological responses vary with the individual.

RECEIVED
JUL - 2 1984

OIL & GAS DIVISION
DEPT. OF MINES

09/08/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

RECEIVED
DEC 10 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 039-2445P

Hughtart
Well No. #1

COMPANY Cities Service Corp ADDRESS Charleston
FARM Asbury DISTRICT POCA COUNTY KANAWHA

Filling Material Used Cement Latex Gcl

Liner		Location		Amount	Packer	Location	
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST
<u>12-4-84</u>			<u>Set Mech. plug At 4520'</u>		<u>10 SKS.</u>		
			<u>Latex Cement on plug 4520' - 4420'</u>				
			<u>Cut 5 1/2 At 2050' Pull 5 1/2</u>				
<u>12-5-84</u>			<u>Set mech. plug At 1800' inside</u>		<u>8 5/8</u>		
			<u>10 SKS. Heat on Top 1800' - 1765'</u>				
			<u>Gcl To 90' Heat. Cement</u>				
			<u>90' - Surface</u>				

Drillers' Names Tri-State Well Service

Remarks:

I WAS AT The well After plugging
While Rig WAS moving out
Cement Stayed To Surface

12-5-84 ~~I hereby certify I visited the above well on this date.~~
DATE

Rod Dillon
DISTRICT WELL INSPECTOR

09/08/2023

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

INSPECTOR'S WELL REPORT

Permit No. _____

Oil or Gas Well _____
(KIND)

	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Company _____	Size			
Address _____	16			Kind of Packer _____
Farm _____	13			
Well No. _____	10			Size of _____
District _____ County _____	8 1/4			
Drilling commenced _____	6 5/8			Depth set _____
Drilling completed _____ Total depth _____	5 3/16			
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

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

RECEIVED
DEC 10 1984

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT

DEPT. OF MINES

Permit No. _____

Oil or Gas Well _____
(KIND)

Company _____ Address _____ Farm _____ Well No. _____ District _____ County _____ Drilling commenced _____ Drilling completed _____ Total depth _____ Date shot _____ Depth of shot _____ Initial open flow _____ /10ths Water in _____ Inch Open flow after tubing _____ /10ths Merc. in _____ Inch Volume _____ Cu. Ft. Rock pressure _____ lbs. _____ hrs. Oil _____ bbls., 1st 24 hrs. Fresh water _____ feet _____ feet Salt water _____ feet _____ feet	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
	Size			Kind of Packer _____
	16			
	13			
	10			Size of _____
	8 1/4			
	6 5/8			Depth set _____
	5 3/16			
	3			Perf. top _____
	2			Perf. bottom _____
	Liners Used			Perf. top _____ Perf. bottom _____
	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
	NAME OF SERVICE COMPANY _____			
	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

RECEIVED
JUL - 2 1984



1) Date: June 22, 19 84
2) Operator's Well No. Hughart "C" #1, GW-1660
3) API Well No. 47 - KAN - 2445-P
State County Permit

OIL & GAS DIVISION
DEPT. OF MINES
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES

APPLICATION FOR A PERMIT TO PLUG AND ABANDON A WELL

- 4) WELL TYPE: A Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____
B (If "Gas", Production X / Underground storage) _____ / Deep X Shallow _____ /
- 5) LOCATION: Elevation: 908.83 Watershed: Hughart Fork (KP13A2)
District: Poca County: Kanawha Quadrangle: Charleston
- 6) WELL OPERATOR Cities Service Oil & Gas Corp. 7) DESIGNATED AGENT Paul D. Phillips
Address P. O. Box 873 Address P. O. Box 873
Charleston, WV 25323 Charleston, WV 25323
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Rodney B. Dillon
Address P. O. Box 7
Williamstown, WV 26187
- 9) PLUGGING CONTRACTOR
Name Tri-State Well Service
Address P. O. Box 299, One Berea Plaza
Bridgeport, WV 26330

10) WORK ORDER: The work order for the manner of plugging this well is as follows:
See attached procedures.

OFFICE USE ONLY

OFFICE USE ONLY
PLUGGING PERMIT

Permit number 47-039-2445-P Date July 9, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to plug in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector 24 hours before actual permitted work has commenced.**

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the reverse hereof.

Permit expires July 9, 1986 unless plugging is commenced prior to that date and prosecuted with due diligence.

Bond: BLANKET	Agent: <u>ls</u>	Plat: <u>MH</u>	Casing: <u>[Signature]</u>	Fee: <u>NF</u>
-------------------------	---------------------	--------------------	-------------------------------	-------------------

Michael Lewis
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the plugging location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

09/08/2023

RECEIVED JUL 1 1984

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED PLUGGING

Application details including well name, location, operator, and contractor information.

FOR WORK ORDER: The work order for the plugging of this well is as follows: See attached procedures.

OFFICE USE ONLY

This part of Form IV-4(b) is to record the dates of certain occurrences and any follow-up inspections.

Table with columns: Date, Follow-up inspection(s), Date(s). Rows include Application received, Plugging started, Plugging completed, Well Record received.

OTHER INSPECTIONS

Reason: Reason: (Two lines for providing details on other inspections)

Signature of Michael Jensen, Administrator, Office of Oil and Gas.

Administrative stamp area with 'BLANKET' and 'Agent' fields.

RECEIVED
JUL - 2 1984



1) Date: June 21, 19 84
2) Operator's Well No. Hughart "C" #1
3) API Well No. 47 - KAN - 2445 - P
State County Permit

OIL & GAS DIVISION
STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS, DEPARTMENT OF MINES
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) SURFACE OWNER(S) OF RECORD TO BE SERVED

5(i) COAL OPERATOR NONE

(i) Name Damon E. Asbury
Address 210 - 97th St.
Marmet, WV 25315

5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:

Name NONE
Address

(ii) Name
Address

(iii) Name
Address

SENDER: Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

- 1. The following service is requested (check one).
 Show to whom and date delivered
 Show to whom, date, and address of delivery..
- 2. RESTRICTED DELIVERY
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. ARTICLE ADDRESSED TO:

Damon E. Asbury
210 - 97th Street
Marmet, WV 25315

4. TYPE OF SERVICE:

- REGISTERED INSURED
- CERTIFIED COD
- EXPRESS MAIL

ARTICLE NUMBER

P522 269 154
LDK

(Always obtain signature of addressee or agent)

I have received the article described above.

SIGNATURE Addressee Authorized agent

Rhoda Asbury

5. DATE OF DELIVERY

6-22-84

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE:

7a. EMPLOYEE'S INITIALS

18

Name NONE

Address

COAL LESSEE WITH DECLARATION ON RECORD:

Name NONE

Address

and the following documents:

, which sets out the parties involved in the pending work order; and Form IV-6.

REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN SECTION (FORM IV-4(B)) DESIGNATED FOR YOU. HOW-

The undersigned well operator proposes to file or a Permit to plug and abandon a well with the Office of Mines, with respect to the well at the location described in the attached Form IV-6. Copies of this Notice, the Notice shall be mailed or delivered by hand to the person(s) named above on the day of mailing or delivery to the

OPERATOR Cities Service Oil and Gas Corp.

Paul J. Phillips
Its Operations Manager

Address P. O. Box 873
Charleston, WV 25323

Telephone (304) 344-8383

TO THE PERSON(S) NAMED ABOVE:

- (1) The Application work, and
- (2) The plat

THE REASON YOU ARE IN THE "INSTRUCTIONS" SECTION, EVER, YOU ARE NOT

Take notice that the Administrator of the location described in the Application, and the Administrator.

The truth of this Notice and Application is true to the Operator in my presence.

Paul D. Phillips
this 21 day of June, 1984.
My commission expires June 1, 1989.

Notary Public, Donna J. Bay County, Lincoln
State of West Virginia

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1m(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and two copies of the Application must be filed with the Administrator, accompanied by (i) an original and four copies of the Notice, (ii) an original and four copies of a plat in the form prescribed by Regulation 11, and (iii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-9.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code §§ 22-4-1m and 22-4-9.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

RECEIVED
FEB 4 - 1985

OIL & GAS DIVISION

AFFIDAVIT OF PLUGGING AND FILLING WELLS DEPT. OF MINES

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

N/A
COAL OPERATOR OR OWNER

ADDRESS

N/A
COAL OPERATOR OR OWNER

ADDRESS

Damon E. Asbury
LEASE OR PROPERTY OWNER

210-97th Street, Marmet, WV 25315
ADDRESS

Cities Service Oil & Gas Corporation
NAME OF WELL OPERATOR

P. O. Box 873, Charleston, WV 25323
COMPLETE ADDRESS

December 1, 19 84
WELL AND LOCATION

Poca District

Kanawha County

Well No. Hughart "C" #1

Rushie Hughart et al, Consol. Farm

STATE INSPECTOR SUPERVISING PLUGGING Rodney B. Dillon

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Kanawha } ss:

Billy H. Deitz and Blaine W. Minney
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Cities Service Oil & Gas Corporation, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 3rd day of December, 19 84, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
	Gelled hole with 6% gel Latex cmt. plug - 17 sxs	5809-5665		
	Set 5 1/2" CIBP at 4520' Latex cmt. plug - 10 sxs	4520-4420		
	Cut 5 1/2" csg. at 2050' Latex cmt. plug - 40 sxs Pulled 5 1/2" casing	2038-1863	2050'	3715'
	Set 8 5/8" CIBP at 1800' Class A cmt. plug - 10 sxs Class A cmt. plug - 20 sxs	1800-1765 90'-Surface		
	8 5/8" Casing			1963'
	13 3/8" casing			178'
COAL SEAMS		DESCRIPTION OF MONUMENT		
(NAME)		5 1/2" casing 5 feet high w/stainless steel plate inscribed: Hughart "C" #1		
(NAME)		GW-1660, API 47-039-2445-P		
(NAME)		P&A 12/5/84 CSOGC		

and that the work of plugging and filling said well was completed on the 5th day of December, 1984.

And further deponents saith not.

Sworn to and subscribed before me this 15 day of *January*, 1985.

My commission expires: *June 1, 1989*

Billy H. Deitz
Blaine W. Minney
Notary Public

09/08/2023
Permit No. *039-2445-P*



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 8, 1985

COMPANY Cities Service Oil & Gas Corp. PERMIT NO 039-2445-P (7-09-84)
P. O. Box 873 FARM & WELL NO Hughart C1
Charleston, West Virginia 25323 DIST. & COUNTY Poca/Kanawha

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to Starting Work	_____	_____
16.01	Required Permits at Wellsite	_____	_____
17.02	Method of Plugging	_____	_____
18.01	Materials used in Plugging	_____	_____
23.02	Maintained Access Roads	_____	_____
25.01	Necessary Equipment to Prevent Waste	_____	_____
23.04	Reclaimed Drilling Pits	_____	_____
23.05	No Surface or Underground Pollution	_____	_____
17.06	Statutory Affidavit	_____	_____
7.06	Parties Responsible	_____	_____
7.05	Identification Markings	_____	_____

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

SIGNED Carlos W. Heively
DATE 6/26/85

Your Affidavit of Plugging was received and reclamation requirements approved.
The well designated by the above permit number has been released under your bond.

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

July 11, 1985
DATE



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION 3

Rotary
 Spudder
 Cable Tools
 Storage C. HOLL
 Oil or Gas Well Gas (MIND)

Quadrangle Charleston
 Permit No. Kan-2445

WELL RECORD

Company Cities Service Oil Company
 Address Box 873, Charleston, W. Va. 25323
 Farm Rushie Hughart, et al Acres 283.08
 Location (waters) Huggard Fork
 Well No. "C" #1, GW-1661 Elev. 908.03'
 District Poca County Kanawha
 The surface of tract is owned in fee by Russell Young
15 Delaware Ave. Address Charleston, W. Va.
 Mineral rights are owned by Mrs. Rushie Hughart, et al
 for further add. contact C. S. Oil Co
 Address _____
 Drilling commenced 12-7-69
 Drilling completed 1-1-70
 Date Shot not shot From _____ To _____

Casing and Tubing	Used in Drilling depth Set	Left in Well	Packers
Size			Kind of Packer
16			Size of
13 3/8" 48#	178'	all	Depth set
10			Perf. top
8 1/4" 24#	1963'	all	Perf. bottom
6 3/4" 17#	5765'	all	Perf. top
5-1/2" 17#			Perf. bottom
4 1/2	run		
3	run		
2 3/8" EUE	5809'	all	
4.7#	with cage		
Lihrs Used			

With _____
 Open Flow _____ /10ths Water in _____ Inch
 _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls. 1st 24 hrs.
 WELL ACIDIZED (DETAILS) not acidized
 WELL FRACTURED (DETAILS) see reverse side

Attach copy of cementing record.
 CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
 Amount of cement used (bags) see reverse side
 Name of Service Co. _____
 COAL WAS ENCOUNTERED AT none FEET _____ INCHES _____
 FEET _____ INCHES _____ FEET _____ INCHES
 FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 88,000 MCFD (4 point calc. abs. O. F. test)
 ROCK PRESSURE AFTER TREATMENT 2211# Tbg. 2208# annulus _____ HOURS 60 hours
 Fresh Water 85-88' 288' Feet _____ Salt Water 1420' Feet _____
 Producing Sand Newburg Sand Depth 5811-5839' per elect. logs

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Clay and Lime			0	62			
Shale and Sand			62	110	F. Water	85-88'	
Sand and Red Shale			110	144			
Lime			144	178			
Sand and Shale			178	347	F. water	288'	
Red Shale and Sand			347	505			
Shale and Sand			505	633			
Shale			633	891			
Shale and Lime			891	1086			
Sand and Shale			1086	1380			
Sand			1380	1498	S. water	1420'	
Shale			1498	1537			
Shale			1537	1624			
Sand and Shale			1624	1735			
Shale			1735	1965			
Shale and Sand			1965	4915			
Shale			4915	5022			
Onondaga Lime			5022	5062			
Oriskany Sand			5062	5089			
Heldersburg Lime			5089	5802			
Lime			5802	5813			
Sand (Newburg)			5813	5850			
Lime							
Total depth				5850'	Drillers' T. D.		
Electric logs show				5847'	Schlumberger Meas.		
Newburg Sand			5811	5839			

RECEIVED
 JAN 27 1970
 OIL & GAS DIVISION
 DEPT. OF MINES
 09/08/2023

Formation	Color	Hard or Soft	Top 3	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>CASING RECORD</u>							
12-8-69							Set and cemented 2-3/8" casing with 160 sacks of 4% ca. cl. at 178' Circulation and returns.
12-15-69							Set and cemented 8-5/8" 24# H-40 new casing at 1963' with 252 sacks of Pozmix and 100 sacks regular cement with 2% ca. cl. Pumped 50 bbls. gel with loss circulation material ahead of cement. Good circulation of gel and cement to surface. Centralizers at 1933', 1841' and 1754'.
12-21-69							Set and cemented 5-1/2" 17# J-55 new casing at 5,765' with 138 sacks Pozmix and 35 sacks Latex. Pumped 250 bbls. gel with loss circulation material ahead of cement. Good circulation to the surface of gel. Flapper valve at 5,744'. Centralizers at 5,744', 5,681', 5,618' and 5,558'
1-2-70							Ran 5809' of 2-3/8" EUE tubing with cage.
1-2-70							Ran Schlumberger Gamma Ray, Density and Caliper Logs. Newburg Sand by logs 5811' to 5839' with 13' of 8 to 14% porosity.
1-9-70	<u>FRACTURING RECORD</u>						
							Pumped in 500 gallons mud acid and 1,000 gallons 15% regular acid followed with 27,000# 20-40 sand in 29,500 gallons gelled water. Maximum treating pressure 4,700#. Average treating pressure 4,400#. AIR 3l bbls/min. Used 850 bbls. total fluid. Instant S.I.P. 3,500#
1-20-70							4 point calculated absolute open flow test 88,000 MCFD. 60 hour S.I.P. 2211# on tubing and 2208# on annulus.

09/08/2023

Date January 26, 1970

APPROVED Cities Service Oil Company, Oper. Div.

By L. D. Todd, Region Manager
(Title)

The subject well is to be plugged and abandoned in the following manner with all personnel abiding by the attached safety procedure. The only equipment recovery expected will be the 5½" casing and 2-3/8" EUE tubing, both should be considered junk due to the excessive exposure to the H2S produced from the well.

1. Move in workover rig. Rig up flare line from annulus to pit with a continuous pilot kept lit at all operating times. (A choke may be installed to increase combustion).
2. Begin circulating 10% gel down both 2-3/8" tubing and 5½" annulus in order to kill the Newburg sand. Approximately 230 bbl. of 10% gel will be needed to kill the subject well.
3. After killing the subject well the annulus should be opened through the flare line to divert any H2S gas that may have migrated to the surface.
4. Remove tubing head assembly.
5. Rig up and RIH with 1 joint 2-3/8" EUE tubing setting tubing at T.D. 5850'. (Note: tubing presently set at 5809').
6. Begin with first plug by spotting 35 gallons of Latex cement from 5850' to 5600'. This should cover the Newburg formation and open hole area up to 100' inside the 5½" casing. (Note: Latex cement = 1.9 gal. = 1 sack regular cement with slurry weight of 14.5#/gal. yielding 1.41 ft.).
7. POOH with 2-3/8" EUE tubing and inspect.
8. Rig up and prepare to rip 5½" casing by welding 5½" casing pin to a 5½" nipple in order to remove 5½" slips.
9. Rip 5½" casing at approximately 1965' and spot 20 sacks of regular cement with 2% CaCl from 1965' to 1865' through 5½" casing. Then place a CIBP at 1865' with 10 sacks reg. cement from 1865' to 1815'.
10. POOH with 5½" casing to approximately 188' and spot 65 sacks of regular cement with 2% CaCl from 188' to surface through 5½" casing.
11. POOH with 5½" casing and remove 5½" casing body.
12. Erect monument and reclaim location.

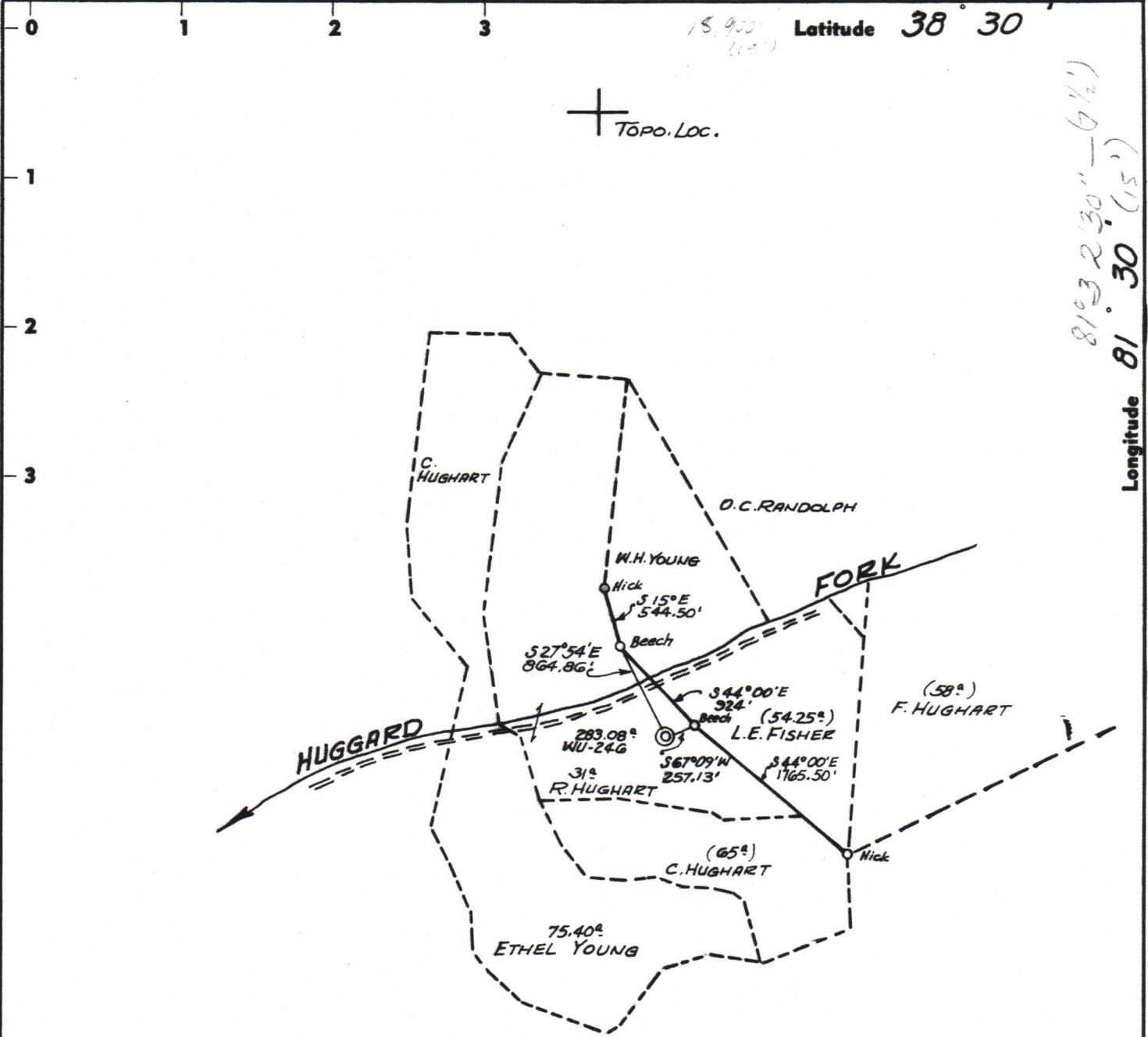
PDP/MDM:LK

RECEIVED

JUL - 1 1984

DEPT. OF MINES
OIL & GAS DIVISION

6,900' (12') 11/20/69 CEN



81° 32' 30" (6 1/2')
Longitude 81° 30' (15')
3900

WELL LOCATED ON
RUSSELL YOUNG FARM (SURF)
615 DELAWARE AVE.
CHARLESTON, W.VA.

New Location .
Drill Deeper
Redrill
Abandonment

SOURCE OF ELEVATION: BASE FROM USGS 808
(FORKS OF HUGGARD BR.) ERROR OF CLOSURE - 1/200
"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 CITIES SERVICE OIL COMPANY

Address Box 873 CHARLESTON, W. VA.

Farm RUSHIE HUGHART ET AL, CONSOL.
Part of 283.08

Tract _____ Acres 31 Lease No. WU-246

Well (Farm) No. C-1 Serial No. GW-1661

Elevation (Spirit Level) 908.03' (Base USGS 808)

Quadrangle CHARLESTON 15' Big Chimney 7 1/2'

County KANAWHA District POCA

Engineer Wardell S. Moore

Engineer's Registration No. 2113

File No. _____ Drawing No. W-12-69

Date 13 NOV 69 Scale 1" = 1320'

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

WELL LOCATION MAP
FILE NO. Can-2472 09/08/2023

+ 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.

68A