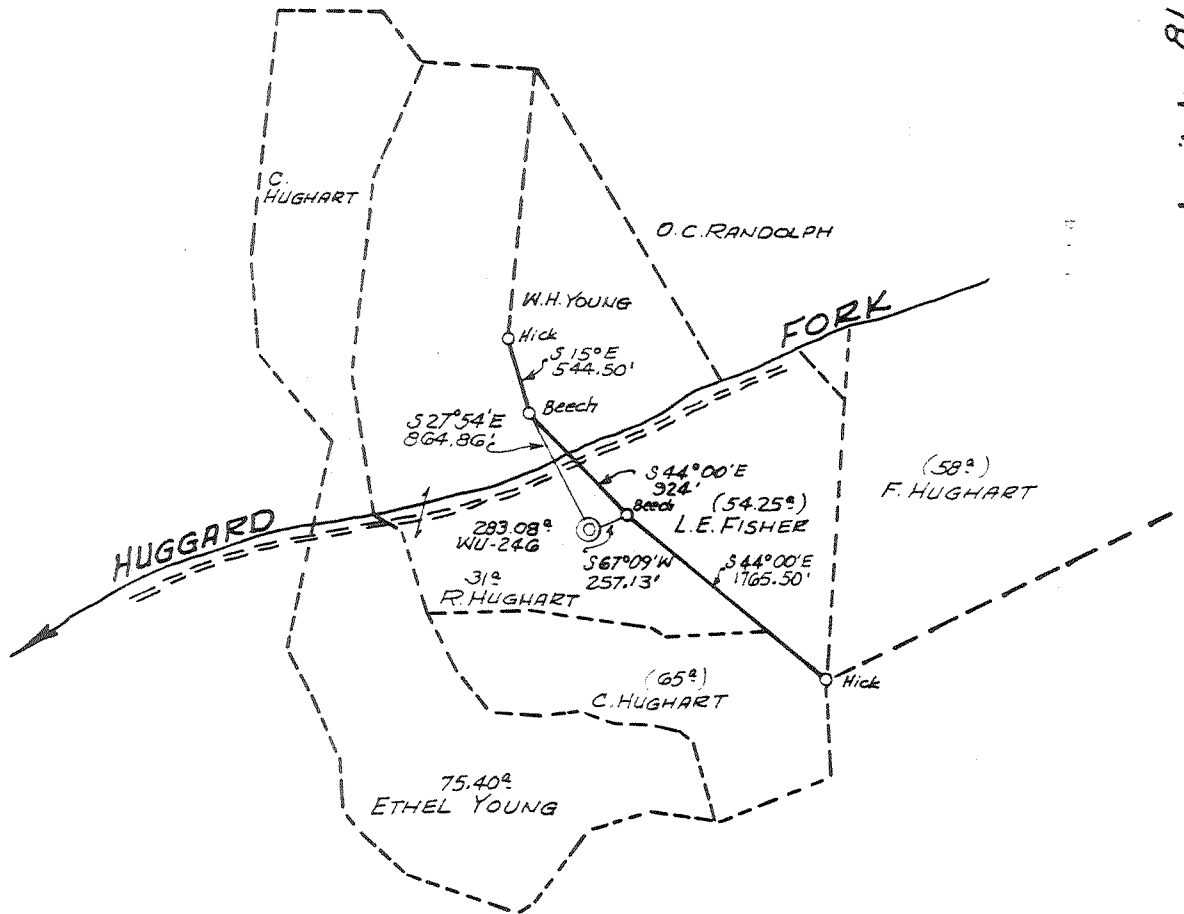


Latitude 38 30

TOPO. LOC.

Longitude 81 30



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
 County KANAWHA District POCA
 Engineer Wendell 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. Kan-2445-P

+ 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.

JUL 16 1984

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

689A

DEEP WELL

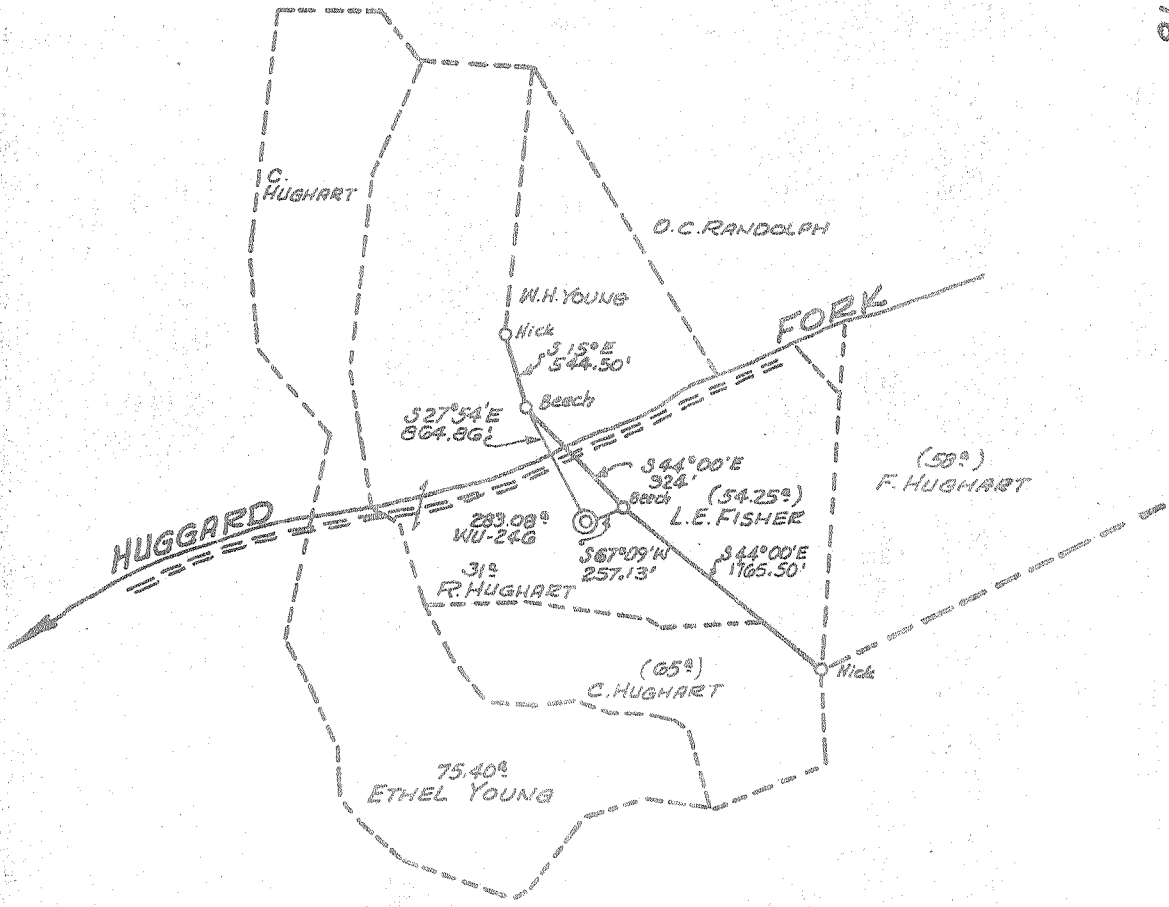
Latitude 38 30



W.O. F. J.
6 F. J.

OK

Longitude 81 30



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

7.5 min OGIS loc 15'
38° 30' 1785
81° 22' 30" 129W 4k 3.55W

- New Location
- Drill Deeper
- Redrill
- Abandonment

SOURCE OF ELEVATION: BASE FROM USGS 808
(FORKS OF HUGGARD BR.) ERROR OF CLOSURE - 1/200
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
 FILE NO. Can-2445

+ 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.



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

Rotary
Spudder
Cable Tools
Storage c. NOLE

Quadrangle: Charleston

WELL RECORD

Permit No. Kan-2445

Oil or Gas Well Gas (KIND)

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
615 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 _____

Casing and Tubing	Used in Drilling - depth set	Left in Well	Packers
Size			Kind of Packer
16			none
13 3/8" 48#	178'	all	Size of
10			Depth set
8 1/4" 24#	1963'	all	
6 3/4" 17#	5765'	all	
5 1/2" 17#			
4 1/2"			
3	run		Perf. top
2 3/8" EUE	5809'	all	Perf. bottom
Liners Used 4.7#	with cage		Perf. top
			Perf. bottom

Drilling commenced 12-7-69
Drilling completed 1-1-70
Date Shot not shot From _____ To _____
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) annulus
ROCK PRESSURE AFTER TREATMENT 2211# Tbg. 2208# 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			
Sand and Shale			1537	1624			
Shale			1624	1735			
Shale and Sand			1735	1965			
Shale			1965	4915			
Onondaga Lime			4915	5022			
Oriskany Sand			5022	5062			
Heldersburg Lime			5062	5089			
Lime			5089	5802			
Sand (Newburg)			5802	5813			
Lime McKenzie			5813	5850			
Total depth				5850'	Drillers' T. D.		
Electric logs show				5847'	Schlumberger Meas.		
Newburg Sand			5811	5839			

5811
908
4903
5811
5022
789

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OIL & GAS DIVISION
DEPT. OF MINES

Formation	Color	Hard or Soft	Top 3	Bottom	Oil, Gas or Water	Depth Found	Remarks
CASING RECORD							
12-8-69							Set and cemented 13-3/8" 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	FRACTURING RECORD						
							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 31 bbls/min. Used 856 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.

Date January 26, 1970

APPROVED Cities Service Oil Company, Owner-Operator

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

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	2038-1863		
	Pulled 5 1/2" casing		2050'	3715'
	Set 8 5/8" CIBP at 1800'			
	Class A cmt. plug - 10 sxs	1800-1765		
	Class A cmt. plug - 20 sxs	90'-Surface		
	8 5/8" Casing			1963'
	13 3/8" casing			178'
			11-2-4-85	
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
Rodney B. Dillon

Notary Public
Commission
Permit No.

039-2445-P