

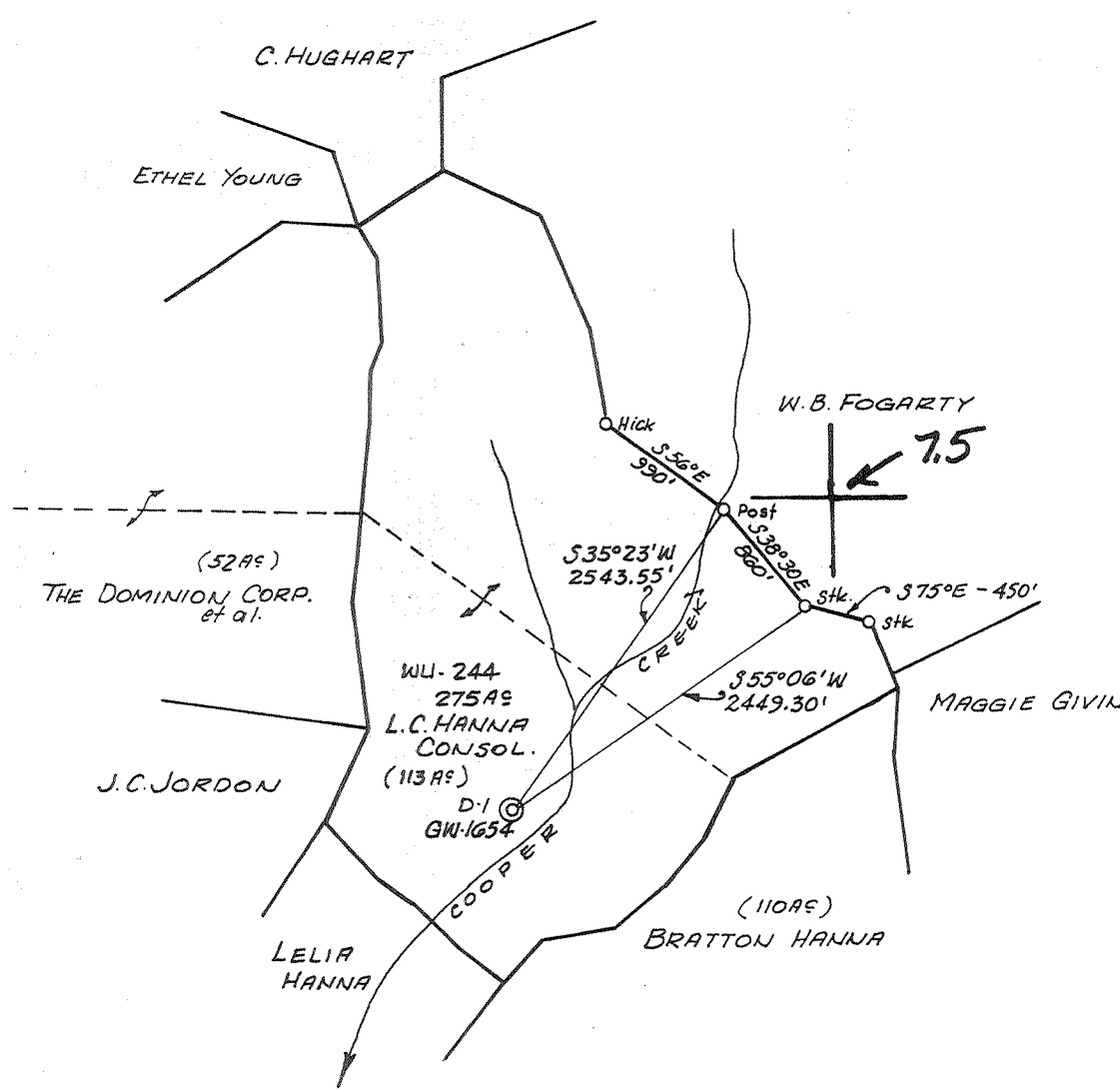
Jamie 9/19/89

Latitude 38 30

4580

7.5
81° 32' 30"

Longitude 81° 30'
9720'



- New Location .
- Drill Deeper
- Redrill
- 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."
ELEVATION BASE FROM GW-444

Company OXY USA INC.
 Address Box 873 CHARLESTON, W.VA.
 Farm LEONARD C. HANNA, CONSOL.
 Tract _____ Acres 275 Lease No. WU-244
 Well (Farm) No. D-1 Serial No. GW-1654
 Elevation (Spirit Level) 725.06
 Quadrangle CHARLESTON-15/Big Chimney 7.5
 County KANAWHA District ELK
 Engineer Wendell S Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-2-69
 Date 13 MAY 69 Scale 1" = 1320'

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

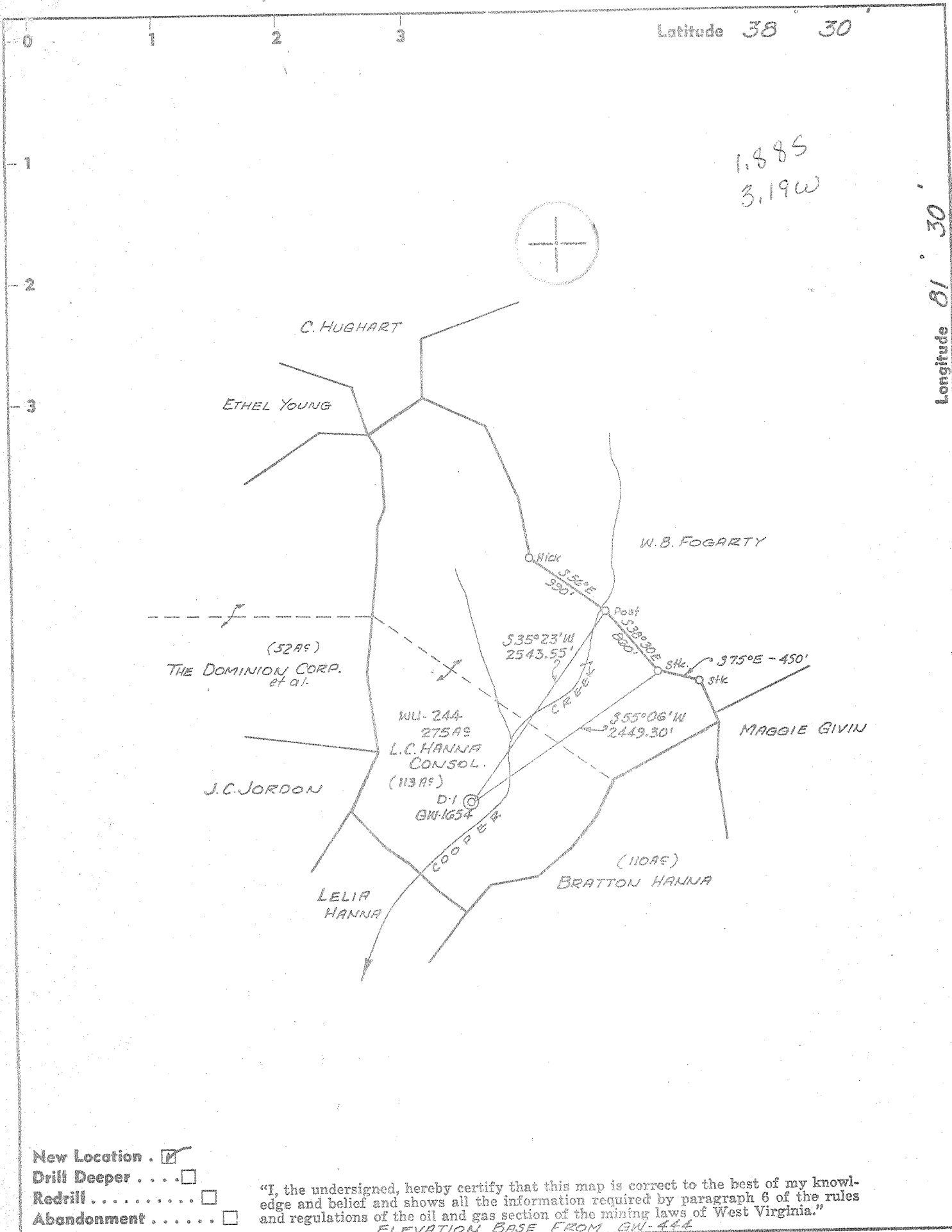
WELL LOCATION MAP

FILE NO. Kan-2408 Plugging
47-039-

+ 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.

SEP 29 1989



- New Location .
- Drill Deeper
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ELEVATION BASE FROM GW-444

Company CITIES SERVICE OIL COMPANY

Address BOX 873 CHARLESTON, W. VA.

Farm LEONARD C. HANNA, CONSOL.

Tract _____ Acres 275 Lease No. WV-244

Well (Farm) No. D-1 Serial No. GW-1654

Elevation (Spirit Level) 725.06

Quadrangle CHARLESTON-1 NE

County KANAWHA District ELK

Engineer Wendell S. Moore

Engineer's Registration No. 2113

File No. _____ Drawing No. WV-2-69

Date 13 MAY 69 Scale 1" = 1320'

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

WELL LOCATION MAP

FILE NO. Kan-2408

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
 Spudder
 Cable Tools
 Storage

Quadrangle Charleston 1

Permit No. KAN-2408

WELL RECORD

Oil or Gas Well Gas (KIND)

Company Cities Service Oil Company
 Address Box 873, Charleston, W. Va. 25323
 Farm Leonard C. Hanna Cons. Acres 275
 Location (waters) Coopers Creek
 Well No. "D" #1, GW-1654 Elev. 725.06'
 District Elk County Kanawha
 The surface of tract is owned in fee by Reba Mechinsky, et al
1135 Hickory Road Address Charleston, W. Va.
 Mineral rights are owned by Aubrey Hanna, et al
 (for further add. contact C. S. O. C.)
 Address

Drilling commenced 5-28-69
 Drilling completed 6-10-69
 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

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

65,000 MCFD

ROCK PRESSURE AFTER TREATMENT 2,225#

HOURS 24 hours

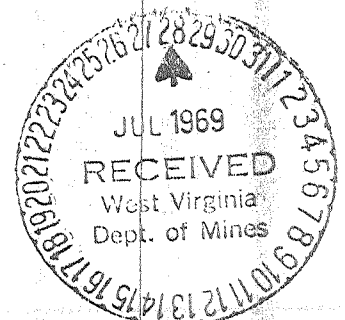
Fresh Water 90' Feet

Salt Water Feet

Producing Sand Newburg Sand

Depth 5614-35' per electric logs

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand and Gravel			0	20			
Sand			20	280	F. Water	90'	
Sand and Shale			280	355			
Sand			355	500			
Shale			500	770			
Sand and Shale			770	1077			
Salt Sand			1077	1200-123			
Shale			1200	1203-30			
Sand			1203	1409-206			
Lime <u>Big</u>			1409	1555-146			
Sand <u>Big</u>			1555	1595-40			
Sand and Shale			1595	2021-426			
Shale			2021	4725-704			
Onondaga Lime			4725	4834-109			
Oriskany Sand			4834	4875-41			
Lime			4875	5614-			
Newburg Sand			5614	5635-21			
Lime <u>McKenzie</u>			5635	5662			
Total depth				5662'	Drillers' depth		
				5655'	Schlumberger Meas.		
Electric Logs showed:							
Onondaga Lime			4724	4832 - 108			
Oriskany			4832	4875 - 42			
Newburg Sand			5614	5635			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
<u>CASING RECORD</u>							
5-28-69							Set and cemented 13-3/8" 40# H-40 casing at 80' with 100 sacks regular cement, 4% ca. cl.
6-3-69							Set and cemented 9-5/8" 29.3# H-40 new casing at 1754' with 295 sacks Pozmix followed by 100 sacks regular cement with 2% ca. cl. Cement circulated to surface. Pumped 50 bbls. gel with lost circulation material ahead of cement. Float at 1727'. Centralizers 1727', 1640' and 1554'. After cementing completed pipe jumped 6' and settled back to elevator. Pressure on pipe dropped from 1100# to 600#. Released 2 bbls. fluid pressure on pipe. Dropped 200# and increased to 400# when valve was shut in.
6-8-69							Set and cemented 7" 23# N-80 A & B grade casing at 5,570' with 108 sacks Pozmix and 31 sacks Latex cement. Pumped 250 bbls. gel with lost circulation material ahead of cement. Good circulation of gel. Float at 5,538'. Centralizers at 5538', 5446', 5358', 5267' and 5174'. Strong odor of sour gas. Est. 50 MCFD
6-11-69							Killed well with 9.4# salt water.
6-7-69							Ran Schlumberger Gamma Ray at 5468'. Top Onondaga by Gamma Ray 4,724' and Oriskany 4832'. Schlumberger depth 5,470'
6-12-69							Ran Schlumberger Compensation Density, Caliper and cement bond logs. Schlumberger T. D. 5,655'. Newburg Sand 5614' to 5635'
7-3-69							<u>FRACED THE NEWBURG SAND</u>
							Pumped in 500 gallons mud acid and 1,000 gallons regular 15% acid followed with 25,000# 20-40 sand in 21,000 gallons gelled water. Maximum treating pressure 4,300#. Average treating pressure 4,090#. AIR 28 bbl/min. Used 890 bbls. of fluid. Opened well. Flowed back to clean up. Shut in after blowing 2-1/2 hours.
7-10-69							24 hour S.I. pressure 2,225#. Blew well 2-1/2 hours. Gas gauged 65,000 MCF/D with 490# on the annulus. Strong odor of sulphur

Date July 23, 1969

APPROVED Cities Service Oil Company, Owner

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

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVITE SHOULD BE IN TRIPLICATE, one copy mailed to the Division, 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.

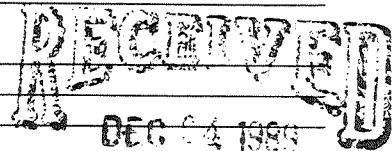
Farm name: KANAWHA VALLEY OIL CO Operator Well No.:HANNA D1-GW1654

LOCATION: Elevation: 725.06 Quadrangle: BIG CHIMNEY
District: ELK County: KANAWHA
Latitude: 9720 Feet South of 38 Deg. 30 Min. 0 Sec.
Longitude 4580 Feet West of 81 Deg. 32 Min. 30 Sec.

Well Type: OIL _____ GAS X

Company: OXY USA INC. Coal Operator N/A
P. O. BOX 873 or Owner
CHARLESTON, WV 25323

Agent: DELBERT G. OLIVER Coal Operator
Inspector: CARLOS HIVELEY or Owner
Permit Issued: 09/25/89



AFFIDAVIT

STATE OF WEST VIRGINIA,
County of KANAWHA ss:

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

TIMOTHY A. COOK, OXY USA INC. and JOHN CLOWSER, CLOWSER WELL SERVICE 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 OXY USA INC., well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 30TH day of OCTOBER, 1989, and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
63 sks Latex Cement	5655'	5355'	5648' of 2-3/8"	None
Halliburton 7" Cmt Retainer		5355'		
42 sks Latex Cement	5355'	5150'		
6% Gel	5150'	2595'	2495' of 7"	3075'
70 sks Class "A"	2595'	2395'		
6% Gel	2395'	1872'		
75 sks Class "A"	1872'	1672'		
Baker 9-5/8" Model N1 CIBP	1672'	1670'		
6% Gel	1670'	180'		
70 sks Class "A"	180'	Surface		

Description of monument: 7" casing 10' long 4' above ground, 6' below ground filled with cement.

and that the work of plugging and filling said well was completed on the 30TH day of NOVEMBER, 1989.

And furthur deponents saith not.

John Clowser CLOWSER WELL SERVICE
Timothy A. Cook OXY USA INC.
Donald J. Bay
Notary Public
COMMISSIONER

Sworn and subscribe before me this 1ST day of DECEMBER, 1989
My commission expires: June 1, 1999

DEC 08 1989