

Latitude

39 1730

5045

1.195  
0.58W  
→ 0615  
7.5' loc  
Kk 7/20/1999

Longitude

**Topo Location**

7.5' Loc. \_\_\_\_\_ 15' Loc. 4.075  
\_\_\_\_\_ (calc.) 0.58W

Company \_\_\_\_\_

Farm \_\_\_\_\_

15' Quad West Union SE  
(sec.) \_\_\_\_\_

7.5' Quad West Union  
\_\_\_\_\_

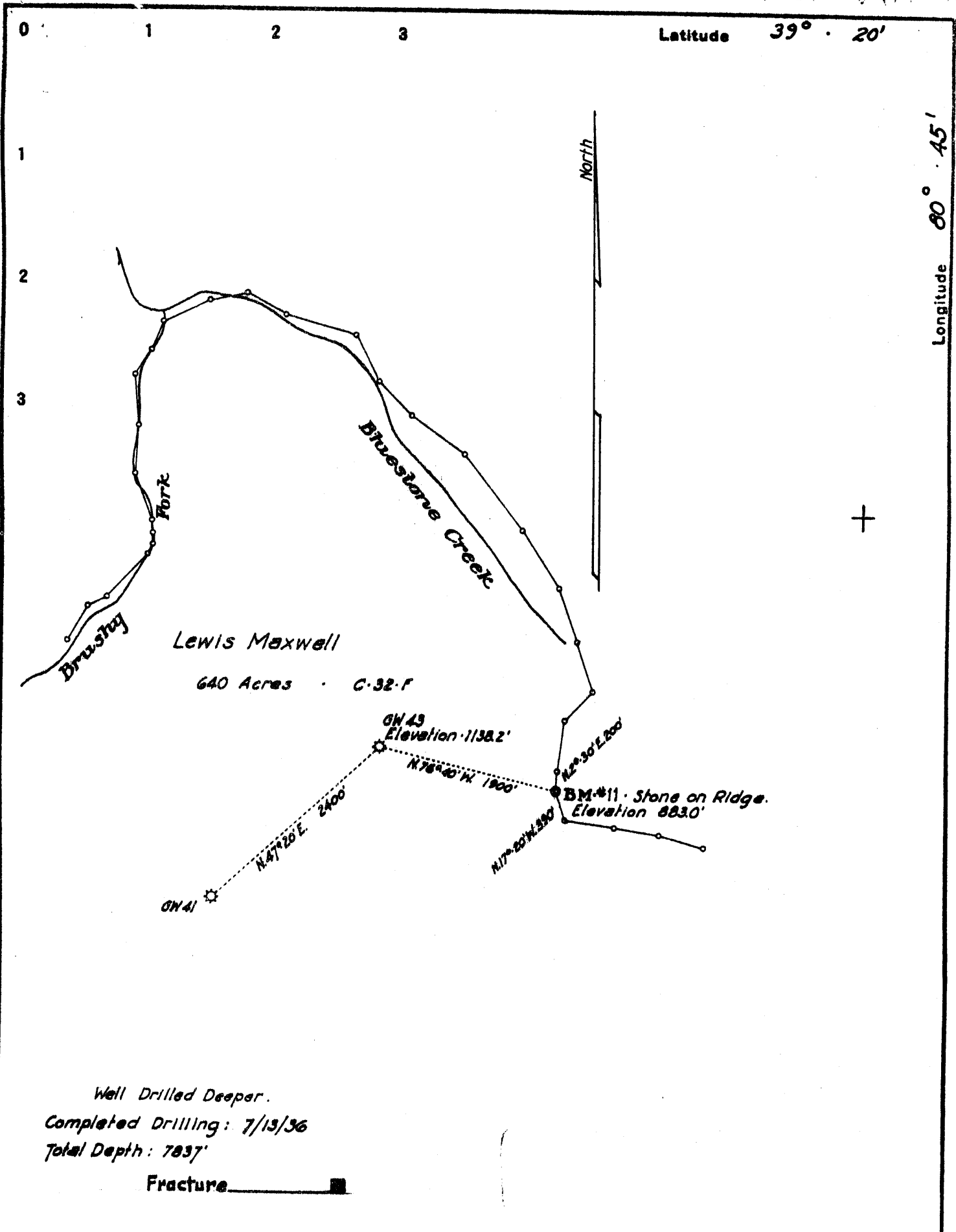
District \_\_\_\_\_

**WELL LOCATION PLAT**

County 017 Permit 71

DEEP WELL

Fract. 4/4/73



Well Drilled Deeper.  
 Completed Drilling: 7/13/36  
 Total Depth: 7837'  
 Fracture

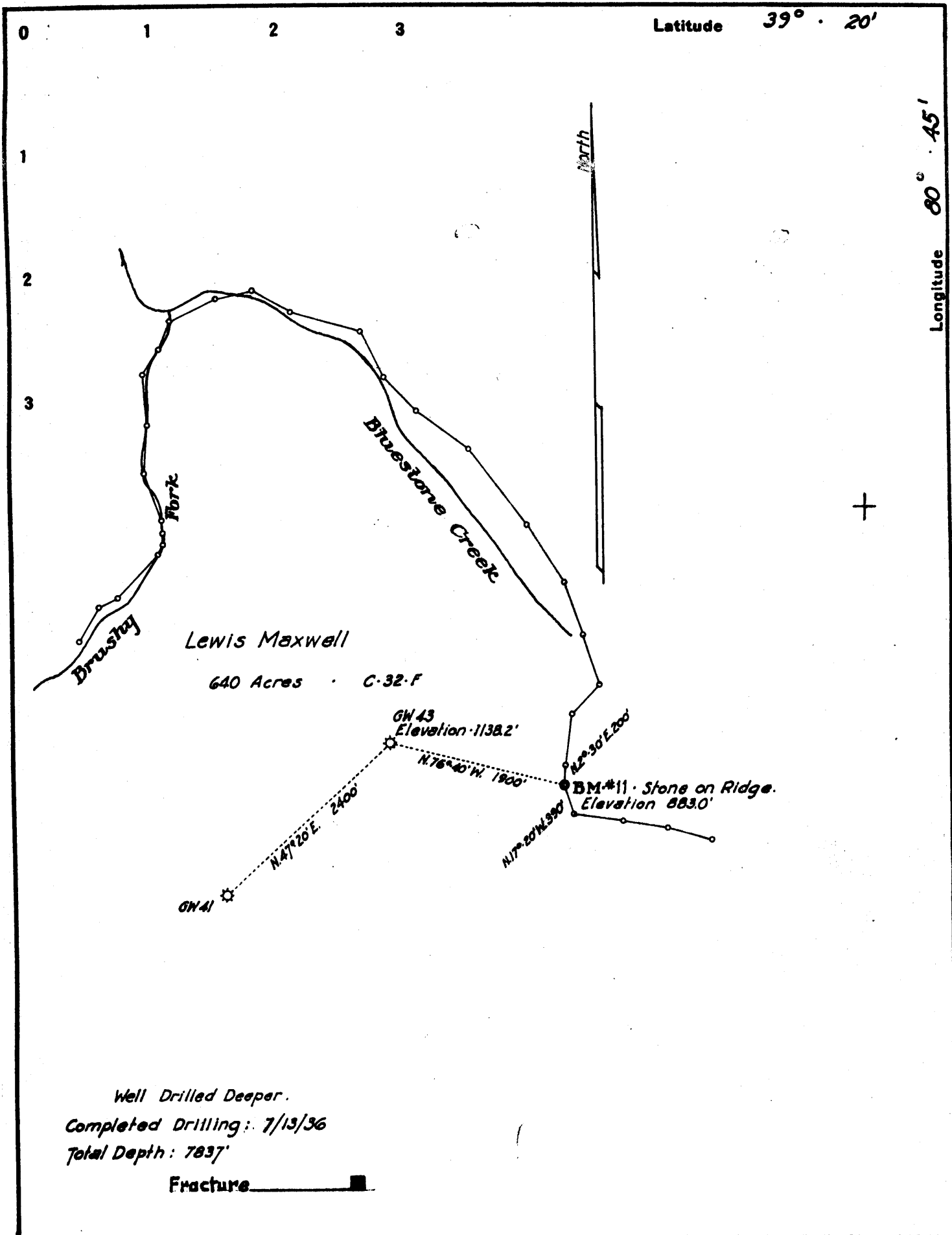
*CITIES SERVICE OIL CO.*  
 Company COLUMBIAN CARBON Co.  
 Address P.O. Box 1240 Charleston W. Va. 25323  
 Farm Lewis Maxwell  
 Tract \_\_\_\_\_ Acres 640 Lease No. C-32-F  
 Well (Farm) No. H-F-D-11 Serial No. GN-43  
 Elevation (Spirit Level) 1138.2' t.w. Union  
 Quadrangle West Union S.F.  
 County Doddridge District Central  
 Engineer James W. Sell  
 Engineer's Registration No. 772  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Mar 19, 1937 Scale 1" = 1320'

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

WELL LOCATION MAP  
 FILE NO. DOD-71-D-Frac.  
FRACTURE CANCELLED-5-30-73  
 + 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.

47-017

Deep Well



Well Drilled Deeper.  
 Completed Drilling: 7/13/36  
 Total Depth: 7837'

Fracture

Company CITIES SERVICE OIL CO.  
~~COLUMBIAN CARBON Co.~~  
 Address P.O. Box 1240 Charleston W. Va. 25329  
 Farm Lewis Maxwell  
 Tract \_\_\_\_\_ Acres 640 Lease No. C-32-F  
 Well (Farm) No. H-P-D-11 Serial No. GW-43  
 Elevation (Spirit Level) 1138.2'  
 Quadrangle West Union S.F.  
 County Doddridge District West Union Central  
 Engineer James N. Sell  
 Engineer's Registration No. 772  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Mar. 19, 1937 Scale 1" = 1320'

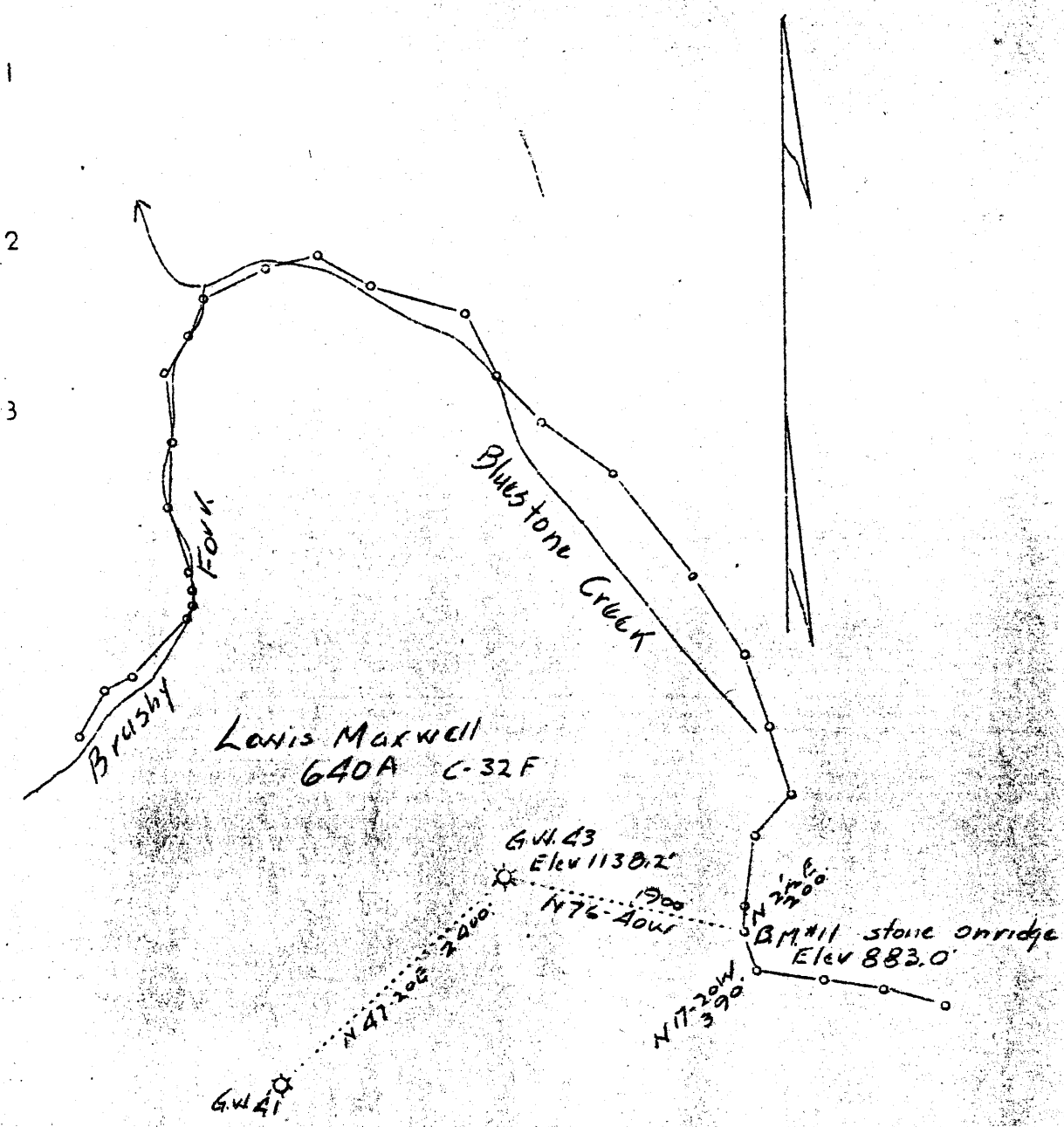
27/B

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

**WELL LOCATION MAP**  
 FILE NO. DOD-71-D-Frac.

+ 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.



Well Drilled Deeper  
 Comp Drilling 7/12/36  
 Total Depth 7837'

0.68 W  
 4.04 R

Company	Columbian Carbon Co.
Address	P. O. Box 1240, Charleston, W. Va.
Farm	Lewis Maxwell
Tract	Acres 640 Lease No. C-32-F
Well (Farm) No.	11-F Serial No. GW-43
Elevation (Spirit Level)	1138.2'
Quadrangle	West Union - S. E.
County	Doddridge District Central
Engineer	James N. Sell
Engineer's Registration No.	772
File No.	Drawing No.
Date	3-19-37 Scale 1" = 1320'

STATE OF WEST VIRGINIA  
 Department of Mines  
 OIL AND GAS DIVISION  
 Charleston

WELL LOCATION MAP  
 File No. DOD-71

+ Denotes location of well on U. S. 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.

6-6 97 Deep Well

003  
Dodd 71

LEWIS MAXWELL, No. 11.

Commenced April 19th, 1916.

Conductor	16	
Native Coal	224	228
Water at	300	
10 in. Casing	367	
Pittsburgh Coal	492	494
Little Dunkard Sand	950	965
Big Dunkard Sand	1055	1113
8-1/4 In. Casing	1062	
Gas Sand	1185	1272
First Salt Sand	1361	1421
Second Salt Sand	1610	1660
Gas 6 Tenths W. 6-5/8 <i>945 m 945 mcf</i>	1630	
Little Lime	1800	1820
Pencil Cave	1820	1835
Blue Monday	1835	1857
Big Lime	1857	1932
6-5/8 In. Casing	1872	
Perforated Joint 6-5/8	1828	
Packer set at	1612	
Steel Shoe on Bottom 6-5/8		
Big Injun Sand	1932	2015
Gas at	2010	
Total Depth	2049	

Tused 2" Perforated Joint, Second Joint

From Bottom.

Packer 147 feet from Bottom.

10" Casing Pulled.

J. E. Traniner, Contractor.

*Electron 1130*

RECEIVED

APR 4 1916

OIL & GAS DIVISION  
DEPT. OF MINES

- original record -

Elev. 1138'  
T. D.  
Driller's Log

Q - 24 - 1

W. Va.  
Doddridge Co.  
Smithburg Dist.  
West Union Quad.

Lewis Maxwell #11-F

Located: 0.93 Mi. S. 25° ~~E.~~ of Mouth of Bluestone ~~Creek~~  
Operator: Columbian Carbon Co. (G W - 45)  
Contractor: 2049' to T. D. Greathouse, Weston, W. Va.  
Drillers: McKinney, O. L. Pratt & Spellaci  
Tool Dressers: Pratt  
Commenced: Apr. 19, 1916  
Commenced: D. D. Feb. 3, 1934  
Record from Columbian Carbon Co.  
Production:

*Dodd 21-D*

Formation	Feet	
	Top	Bot.
Unrecorded	0	224
✓Coal	224	228
Unrecorded (water - 300')	228	492
✓Coal, Pittsburgh	492	494
Unrecorded	494	950
✓Sand, Little Dunkard	950	965
Unrecorded	965	1055
✓Sand, Big Dunkard ( <i>gas Sand</i> - 1185'-1272')	1055	1113
Unrecorded	1113	1361
✓Sand, 1st salt	1361	1421
Unrecorded	1421	1610
✓Sand, 2nd salt (gas - 1630') <i>945'</i>	1610	1660
Unrecorded	1660	1800
✓Lime, Little Lime	1800	1820
✓Shale, Pencil Cave	1820	1835
✓Sand, Blue Monday	1835	1857
✓Lime, Big Lime	1857	1932
✓Sand, Big Injun (gas - 2010', 48 H. Cu. Ft.)	1932	2015
Unrecorded T. D. 2049' (1916)	2015	2049
Lime	2049	2152
✓Sand, Gantz ✓	2152	2308
Lime	2308	2500
Slate & shells	2500	2580
✓Sand, Gordon Stray (gas - 2597')	2580	2588
Slate	2588	2594
✓Sand, Gordon	2594	2600
Slate & shells	2600	2658
Lime	2658	2749
Slate & shells	2749	2856
Sandy lime	2856	2890
Slate & lime	2890	3060
Slate & lime shells	3060	3164
Slate & lime	3164	3235
Lime	3235	3257
Sand	3257	3268
Slate & lime	3268	3310
Sandy lime	3310	3325
Slate & lime	3325	3356
Sand	3356	3368
Lime	3368	3460
Slate	3460	3495
Lime	3495	3518
Sand	3518	3525
Slate	3525	3530
Lime	3530	3565
Slate	3565	3582
Lime	3582	3609
Slate	3609	3614
Lime	3614	3626
Slate	3626	3630
Lime	3630	3657
Slate & lime	3657	3704
Slate	3704	3722
Slate & shells	3722	3775
Lime	3775	3785

*6710  
2308  
4402*

*6710  
2408  
4302*

*Copied*

	Feet	
	Top	Bot.
Slate	3785	3802
Slate & lime shells	3802	3935
Lime	3935	3950
Slate & shells	3950	4005
Sandy lime	4005	4020
Slate & shells	4020	4085
Slate & lime shells	4085	4130
Sand	4130	4176
Slate & shells	4176	4272
Sandy lime	4272	4285
Slate & shells	4285	4347
Sandy lime	4347	4359
Slate & shells	4359	4385
Sand	4385	4397
Slate & shells	4397	4427
Gritty brown shale & shells	4427	4455
Sandy lime	4455	4472
Slate & shells	4472	4666
Lime	4666	4728
Slate & shells	4728	4820
Brown shale	4820	4901
Sandy lime	4901	4912
Slate	4912	4933
Slate & shells	4933	4987
Lime	4987	5003
Slate & shells	5003	5087
Lime	5087	5104
Slate & shells	5104	5160
Sand	5160	5193
Slate & shells	5193	5420
Sandy shale	5420	5448
Slate & shells	5448	5485
Lime	5485	5510
Slate & shells	5510	5620
Lime	5620	5630
Slate & shells	5630	5690
Slate & lime shells	5690	5725
Slate & shells	5725	5770
Brown slate & shells	5770	5805
Slate & shells	5805	5885
Lime	5885	5910
Slate & shells	5910	5978
Lime	5978	6035
Slate & shells	6035	6065
Lime	6065	6079
Shale & shells	6079	6145
Lime	6145	6160
Brown shale & shells	6160	6198
Lime	6198	6220
Brown slate	6220	6230
Lime	6230	6245
Brown shale	6245	6324
Lime	6324	6410
Brown shale	6410	6448
Brown sandy shale	6448	6507
Lime	6507	6608
Brown shale (had cave)	6608	6622
Lime	6622	6690
Slate & shells (had cave)	6690	6710
Gritty white lime	6710	6730

MRC

Onard 6712 -  
 Orisk 6960  
 Held 7113  
 Salt 7758-64; 80-7820; 7825-7829

Casing Record

10" - 367'  
8 1/2" - 1062'  
6 5/8" - 1872'  
5 3/16" - 3397' 6"



WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS DIVISION

WELL RECORD

Permit No. Dod-71

Gas Well

West Union S. E. **WEST UNION DIST.**

Company - Columbian Carbon Company  
 Address - Box 1240, Charleston, W. Va.  
 Farm - Lewis Maxwell. Acres- 1648  
 Location - Bluestone Run  
 Well No. - 11-F (GW-43). Elev. 1138  
 District - West Union. County- Doddridge  
 Surface & Mineral - Lewis Maxwell Estate  
 Drilling - Commenced- D.D. 6-13-34 *original drilling in 1916*  
 Completed- D. D. 7-13-36  
 Date Shot - 7-23-38. Depth 4400 & 6410 to 6791'  
 Volume - 30,000 cu. ft.  
 Rock Press. - 50 lbs. 24 hrs.  
 Oil -  
 Fresh Water -  
 Salt Water -

CASING & TUBING

6-5/8 1531' 3"  
 5-3/16 3397' 3"  
 2 4164' 11"

*SE West Union*  
~~0-60W~~  
~~410S~~

Big Lime 1857 - 1932 - 719  
 Big Injun 1932 - 2015 - 877

7 SE (F-8)  
 Samples 56

Elev. 1138

Formation Color <sup>H<sub>2</sub></sup> TOP Bottom Result				Formation Color <sup>H<sub>2</sub></sup> TOP Bottom Result			
Began Drilling	Deeper	2656		Slate & Shells		4928	4906
Line		2656	2750	Lime		4986	5003
Slate & Shells		2750	2855	Slate & Shells		5003	5035
Gritty Lime, hard		2855	2885	Line		5085	5101
Slate, Lime & Shells		2885	3235	Slate & Shells		5101	5160
Line, hard		3235	3257	Sand		5160	5192
Sand, hard		3257	3285	Slate & Shells		5192	5420
Slate, Lime & Shells		3285	3310	Gritty Shale		5420	5445
Gritty Lime		3310	3325	Slate & Shells		5445	5485
Slate & Line		3325	3356	Line, hard		5485	5510
Sand		3356	3367	Slate & Shells		5510	5620
Line		3367	3518	Line, hard		5620	5630
Sand, hard		3518	3526	Slate & Shells		5630	5770
Slate		3526	3530	Brown Slate & Shells		5770	5835
Line, hard		3530	3565	Line, hard		5835	5920
Slate		3565	3592	Slate & Shells		5920	5978
Line		3592	3608	Line, hard		5978	6035
Slate		3608	3612	Slate & Shells		6035	6066
Line		3612	3625	Line, hard		6066	6079
Slate		3625	3630	Slate & Shells		6079	6147
Line		3630	3656	Line, hard		6147	6160
Slate & Line		3656	3704	Brown Shale & Shells		6160	6193
Slate		3704	3725	Line, hard		6193	6220
Slate & Line		3725	3774	Slate		6220	6230
Line		3774	3785	Line, hard		6230	6246
Slate		3785	3803	Brown Shale & Shells		6246	6324
Slate & Shells		3803	3935	Line, hard		6324	6410
Line		3935	3950	Brown Shale & Shells		6410	6448
Slate & Shells		3950	4003	Gritty Brown Shale		6448	6506
Gritty Lime, hard		4003	4020	Brown Shale & Shells		6506	6574
Slate & Shells		4020	4130	Line, hard		6574	6609
Sand		4130	4142	Brown Shale		6609	6622
Slate & Shells		4142	4272	Line, hard		6622	6690
Gritty Lime, hard		4272	4285	Slate & Shells		6690	6712 Gas 6700 show
Slate & Shells		4285	4345	✓ Corniferous - 463-5590		6712	6960
Gritty Lime, hard		4345	4355	✓ Oriskany - 5727		6960	7113
Slate & Shells		4355	4385	✓ Holderburg Line		7113	7837
Sand		4385	4397	✓ SALINA			
Slate & Shells		4397	4427	Total Depth			7837 - 6649
Brown Gritty Shale		4427	4455	Rock salt		7758	7789
Gritty Lime		4455	4472 show gas	" "		7780	7820
Slate & Shells		4472	4665 4439	" "		7825	78812 6960
Line, hard		4665	4725 SIM 4617'	HDBG-7103-7381			1138 1138
Slate & Shells		4725	4820	SLIN-7381			
Brown Slate & Shells		4820	4901	From OIG Bull #16			
Gritty Lime, hard		4901	4912	pp. 20-25			
Slate		4912	4920				5674-58

7113  
 1139  
 5975

*Dead well*

DEEP WELL

West Union District, Doddridge County, W. Va.

By Columbian Carbon Co.

On waters of Bluestone of Middle Island Creek.

Contractor, F. S. Greathouse, Weston, W. Va.

Started rigging up June 13, 1934.

Well completed and shut in August 14, 1936.

Record to RCT by H.E.Crum 10-3-36. Original returned to him 10-5-36.

	Top.	Bottom.	Thickness.
Lime	2656	- 2750	94
Slate and shells	2750	- 2855	105
Gritty lime, hard	2855	- 2885	30
Slate, lime, and shells	2885	- 3235	350
Lime, hard	3235	- 3257	22
Sand, hard	3257	- 3285	28
Slate, lime, and shells	3285	- 3310	25
Gritty lime	3310	- 3325	15
Slate and lime	3325	- 3356	26
Sand	3356	- 3367	11
Lime	3367	- 3518	151
(steel line run at 3397 $\frac{1}{2}$ '; 5-3/16" casing set in line at 3397 $\frac{1}{2}$ ')			
Sand, hard	3518	- 3526	8
Slate	3526	- 3530	4
Lime, hard	3530	- 3565	35
Slate	3565	- 3582	17
Lime	3582	- 3608	26
Slate	3608	- 3612	4
Lime	3612	- 3625	13
Slate	3625	- 3630	5
Lime	3630	- 3656	26
Slate and lime	3656	- 3704	48
Slate	3704	- 3725	21
Slate and lime	3725	- 3774	49
Lime	3774	- 3785	11
Slate	3785	- 3803	18
Slate and shells	3803	- 3935	32
Lime	3935	- 3950	15
Slate and shells	3950	- 4008	58
Gritty lime, hard	4008	- 4020	12
Slate and shells	4020	- 4130	110
Sand	4130	- 4142	12
Slate and shells	4142	- 4272	130
Gritty lime, hard	4272	- 4285	13
Slate and shells	4285	- 4345	60
Gritty lime, hard	4345	- 4355	10
Slate and shells	4355	- 4385	30
Sand	4385	- 4397	12
Slate and shells	4397	- 4427	30
Brown gritty shale (show gas, 4439')	4427	- 4455	28
Gritty lime, hard	4455	- 4472	17
Slate and shells (steel line run, 4617')	4472	- 4665	193
Lime, hard	4665	- 4725	60
Slate and shells	4725	- 4820	95
Brown slate and shells	4820	- 4901	81
Gritty lime, hard	4901	- 4912	11
Slate	4912	- 4928	16

(OVER)

	Top.	Bottom.	Thickness.
Slate and shells	4928	- 4986	58
Lime	4986	- 5003	17
Slate and shells	5003	- 5085	82
Lime	5085	- 5101	16
Slate and shells	5101	- 5160	59
Sand	5160	- 5192	32
Slate and shells	5192	- 5420	228
Gritty shale	5420	- 5445	25
Slate and shells	5445	- 5485	40
Lime, hard	5485	- 5510	25
Slate and shells	5510	- 5620	110
Lime, hard	5620	- 5630	10
Slate and shells	5630	- 5770	140
Brown slate and shells	5770	- 5885	115
Lime, hard	5885	- 5920	35
Slate and shells	5920	- 5978	58
Lime, hard	5978	- 6035	57
Slate and shells	6035	- 6066	31
Lime, hard	6066	- 6079	13
Slate and shells	6079	- 6147	68
Lime, hard	6147	- 6160	13
Brown shale and shells	6160	- 6198	38
Lime, hard	6198	- 6220	22
Slate	6220	- 6230	10
Lime, hard	6230	- 6246	16
Brown shale and shells	6246	- 6324	78
Lime, hard	6324	- 6410	86
Brown shale and shells	6410	- 6448	38
Gritty brown shale	6448	- 6506	58
Brown shale and shells	6506	- 6574	68
Lime, hard	6574	- 6609	35
Brown shale	6609	- 6622	13
Lime, hard	6622	- 6690	68
Slate and shells	6690	- 6710	20
Lime, hard	6710	- 7387	677
Sand, hard	7387	- 7410	23
Lime, hard	7410	- 7480	70
Lime, black, hard	7480	- 7507	27
Lime, broken	7507	- 7550	43
Lime, hard	7550	- 7578	28
Lime, black,	7578	- 7597	19
Lime, hard	7597	- 7624	27
Lime, black, hard	7624	- 7780	56
Lime, broken	7780	- 7837	67
Total depth		7837	

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION

W E L L R E C O R D

Permit No. Dod-71

Gas Well

West Union S. E.

Company - Columbian Carbon Company  
 Address - Box 1240, Charleston, W. Va.  
 Farm - Lewis Maxwell. Acres- 1643  
 Location - Bluestone Run  
 Well No. - 11-F (GW-43). Elev. 1138  
 District - West Union. County- Doddridge  
 Surface & Mineral - Lewis Maxwell Estate  
 - West Union, W. Va.  
 Drilling - Commenced- D.D. 6-13-34  
 - Completed- D. D. 7-13-36  
 Date Shot - 7-23-38. Depth 4400 & 6410 to 6791'  
 Volume - 30,000 cu. ft.  
 Rock Press.- 50 lbs. 24 hrs.  
 Oil -  
 Fresh Water -  
 Salt Water -

CASING & TUBING

6-5/8 1531'3"  
 5-3/16 3397'6"  
 2 4164'11"

Formation Color <sup>1/2</sup> TOP Bottom Result				Formation Color <sup>1/2</sup> TOP Bottom Result			
Began Drilling	Deeper	2656		Slate & Shells		4920	4906
Line		2656	2750	Lime		4986	5003
Slate & Shells		2750	2855	Slate & Shells		5003	5035
Gritty Lime, hard		2855	2885	Line		5085	5101
Slate, Lime & Shells		2885	3235	Slate & Shells		5101	5160
Lime, hard		3235	3257	Sand		5160	5192
Sand, hard		3257	3285	Slate & Shells		5192	5420
Slate, Lime & Shells		3285	3310	Gritty Shale		5420	5445
Gritty Lime		3310	3325	Slate & Shells		5445	5485
Slate & Line		3325	3356	Lime, hard		5485	5510
Sand		3356	3367	Slate & Shells		5510	5620
Lime		3367	3518	Lime, hard		5620	5630
Sand, hard		3518	3523	Slate & Shells		5630	5770
Slate		3526	3530	Brown Slate & Shells		5770	5835
Lime, hard		3530	3565	Lime, hard		5835	5920
Slate		3568	3582	Slate & Shells		5920	5978
Lime		3582	3608	Lime, hard		5978	6035
Slate		3608	3612	Slate & Shells		6035	6065
Lime		3612	3625	Lime, hard		6068	6079
Slate		3625	3630	Slate & Shells		6079	6147
Lime		3630	3656	Lime, hard		6147	6160
Slate & Line		3656	3704	Brown Shale & Shells		6160	6198
Slate		3704	3725	Lime, hard		6198	6220
Slate & Line		3725	3774	Slate		6220	6230
Lime		3774	3785	Lime, hard		6230	6246
Slate		3785	3803	Brown Shale & Shells		6246	6324
Slate & Shells		3803	3935	Lime, hard		6324	6410
Lime		3935	3950	Brown Shale & Shells		6410	6448
Slate & Shells		3950	4003	Gritty Brown Shale		6448	6506
Gritty Lime, hard		4003	4020	Brown Shale & Shells		6506	6574
Slate & Shells		4020	4130	Lime, hard		6574	6609
Sand		4130	4142	Brown Shale		6609	6622
Slate & Shells		4142	4272	Lime, hard		6622	6690
Gritty Lime, hard		4272	4285	Slate & Shells		6690	6712 Gas
Slate & Shells		4285	4345	Corniferous		6712	6960 show
Gritty Lime, hard		4345	4355	Oriskany		6960	7113
Slate & Shells		4355	4385	Holderburg Lime		7113	7837
Sand		4385	4397				
Slate & Shells		4397	4427	Total Depth			7837
Brown Gritty Shale		4427	4455				
Gritty Lime		4455	4472				
Slate & Shells		4472	4665				
Lime, hard		4665	4725				
Slate & Shells		4725	4820				
Brown Slate & Shells		4820	4901				
Gritty Lime, hard		4901	4912				
Slate		4912	4928				



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

APR 4 1973

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Louis Maxwell  
Address West Union, W. Va.  
Mineral Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Owner \_\_\_\_\_  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
Address \_\_\_\_\_

DATE April 3, 1973  
Company Cities Service Oil Company  
Address Box 873, Charleston, W. Va. 25323  
Farm Louis Maxwell Acres 640  
Location (waters) Blue Stone Run  
Well No. 7" Oil, 08-43 Elevation 1138  
District Puttiburgh West Union County Doddridge  
Quadrangle West Union

THIS PERMIT MUST BE POSTED AT THE WELL SITE.  
All provisions being in accordance with Section 3 of the W. Va. Code, the location is hereby approved for fracturing. This permit shall expire if operations have not commenced by 8-4-73.

Robert L. Bell  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Bill Blosser  
Box 1857  
Colfax, WV. PH: 363-9105

GENTLEMEN:

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 30 1957 by Louis Maxwell (widower) made to Cities Service Oil Co. (formerly Col. Carbon Co.) and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 1957, in Doddridge County, Book 44 Page 160

\_\_\_\_\_ 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.

Very truly yours, Cities Service Oil Company

(Sign Name) Sam J. Matthews  
Sam J. Matthews Well Operator  
Region Prod. Manager

Address Box 873,  
of \_\_\_\_\_ Street  
Well Operator Charleston  
City or Town  
West Virginia 25323  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the 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.

BLANKET BOND

Survey

**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 Bob Spence \_\_\_\_\_ NAME Sam J. Matthews \_\_\_\_\_  
 ADDRESS West Dalton, W. Va. \_\_\_\_\_ ADDRESS Box 671, Charleston, W. Va. 25323 \_\_\_\_\_  
 TELEPHONE \_\_\_\_\_ TELEPHONE 344-6383 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 2020 \_\_\_\_\_ ROTARY \_\_\_\_\_ CABLE TOOLS  \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun \_\_\_\_\_  
 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			
<del>5 - 6-3/8"</del>	<del>1531</del>		<del>Not cemented</del>
<del>5-3/16"</del>	<del>3396</del>	<del>378</del>	
4 1/2			
3	<b>470</b>	<b>470</b>	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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.

\_\_\_\_\_  
 For Coal Company

\_\_\_\_\_  
 Official Title