



CHARLES F. LONGACRE
115 AC. WV 412

ET AL

CERTIFICATE

"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."

Minimum degree of accuracy is one part in 200
Signed _____ L.L.S. 247

- NEW LOCATION
- RECONDITION
- DRILL DEEPER
- ABANDONMENT

COMPANY CITIES SERVICE COMPANY
 ADDRESS Bx 873 CHARLESTON WV 25323
 FARM CHARLES F. LONGACRE
 MAP _____ ACRES 115.00 LEASE NO. WV 412
 WELL (FARM) NO. A-4 SERIAL NO. GW 1861
 ELEVATION (SPIRIT LEVEL) 827.16'
 QUADRANGLE WEST UNION 15' 3E
 COUNTY DODDRIDGE DISTRICT WEST UNION
 POINT OF PROVEN ELEVATION INV. ELEV. BOTTOM OF 66' φ
SPP = 811.00'
 FILE NO. _____ DRAWING NO. W-16-80
 DATE JUNE 5 1980 SCALE 1" = 50'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON
WELL LOCATION MAP
017-2794
 FILE NO. _____

+ 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.

6-6 Smithton-Flint-Sedalia (99)

FIELD ALEXANDER

AUG 11 1980



RECORDED

DEC - 3 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

DEPT. OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle West Union
Permit No. 47-017-2794

Company Cities Service Company
Address Box 873, Charleston, WV 25323
Farm Charles F. Longacre Acres 115.00
Location (waters) Bluestone Creek
Well No. "A" #4, GW-1861 Elev. 827.16
District West Union County Doddridge
The surface of tract is owned in fee by Charles F. Longacre, West Union Bank Bldg.
Address West Union, WV 26456
Mineral rights are owned by Kenneth Longacre
Agent Address West Union, WV 26436
Drilling Commenced 8-16-80
Drilling Completed 10-18-80
Initial open flow 163 M cu. ft. 0 bbls.
Final production 169 M cu. ft. per day 0 bbls.
Well open 24 hrs. before test 950 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10" 11-3/4"	77.55	77.55	surface (40 sx)
9 5/8			
8 5/8 "	1663	1663	surface (410 sx)
7			
5 1/2			
4 1/2	5123	5123	(720 sx)
3			
2 tubing 2-3/8	5020.8		
Liners Used			

Well treatment details:

Attach copy of cementing record.

Treatment for Alexander: Broke down perfs w/500 gal. mud acid w/80 bbl. gelled water. Frac w/Dowell crosslink Polymer w/15000# 80/100 sand & 105,000 20/40 sand, TL&T 820 bbl.

169 MCF

Coal was encountered at none Feet _____ Inches _____
Fresh water none Feet _____ Salt Water _____ Feet _____
Producing Sand Alexander Depth 5015-5042 OA

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
RR			0	35		
Sand			35	95		
RR			95	110		
Shale			110	130		
RR			130	135		
Sand			135	145		
RR Shale			145	217		
Sand			217	255		
RR Shale			255	330		
Sand			330	345		
Shale			345	605		
Sand			605	668		
Shale			668	680		
RR			680	690		
Sand			690	705		
RR			705	720		
Sand			720	730		
Shale			730	830		
Sand			830	1040		
Shale			1040	1050		
Sand			1050	1085		
Shale			1085	1160		
Sand			1160	1215		
Shale			1215	1245		

DEC 18 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1245	1295		
Shale			1295	1300		
Sand			1300	1305		
Shale			1305	1330		
Sand			1330	1450		
Shale			1450	1500		
Sand			1500	1540		
Shale			1540	1550		
Lime			- 1550	1630		
Sand			1630	1810		
Shale			1810	2190		
Sand			2190	2348		
Shale			2348	2380		
Sand			2380	2420		
Shale			2420	2515		
Sand			2515	2740		
Shale			2740	3034		
Warren Sand & Shale			3034	3220		
Shale			3220	4264		
Bradford Sand			4264	4288		
Shale			4288	4732		
Benson Sand			- 4732	4758		
Shale			4758	4976		
Alexander Sand			4976	5069		
Shale			5069	5171	T.D.	

Date December 1, 1980

APPROVED Cities Service Company Owner

By Paul D. Phillips



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JUL 14 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION
DEPT. OF MINES

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

DATE July 10, 1980

Surface Owner Charles F. Longacre
West Union Bank Bldg.
Address West Union, WV 26456
Mineral Owner Kenneth Longacre, Agent
West Union, WV 26436
Address _____
Coal Owner _____
Address _____
Coal Operator _____
Address _____

Company Cities Service Company
Address Box 873, Charleston, WV 25323
Farm Charles F. Longacre Acres 115.00
Location (waters) Bluestone Creek
Well No. "A" #4, GW-1861 Elevation 827.16'
District West Union County Doddridge
Quadrangle West Union

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22, the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 3-24-81.

Paul Garrett
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Garrett
321 Beech Street
ADDRESS Clarksburg, WV 26301
PHONE 622-3871

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 July 2, 1914 by Charles F. Longacre et ux made to ColumbianCarbon (now Cities Service) and recorded on the _____ day of _____ 19____, in _____ County, Book 19 Page 210

X 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, Cities Service Company
(Sign Name) Sam J. Matthews
Sam J. Matthews Well Operator Reg. Prod. Manager

Box 873
Street
Charleston
City or Town
W. Va. 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.

47-017-2794

PERMIT NUMBER

"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 Sam J. Matthews

BLANKET BOND

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 Spencer Enterprises NAME Sam J. Matthews
 ADDRESS West Union, W. Va. ADDRESS Box 873, Charleston, WV 25323
 TELEPHONE _____ TELEPHONE 304-344-8383
 ESTIMATED DEPTH OF COMPLETED WELL: 5150 ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Alexander
 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 11-3/4" 42#	80	80	to surface
9 - 5/8			
8 - 5/8 23#	1650	1650	to surface
7			
5 1/2			
4 1/2 11.6#	5150	5150	640 sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 110 FEET _____ SALT WATER _____ FEET _____
 APPROXIMATE COAL DEPTHS 490 _____
 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