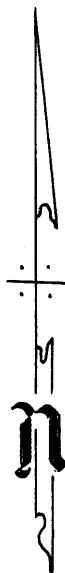


Latitude 39° 20'

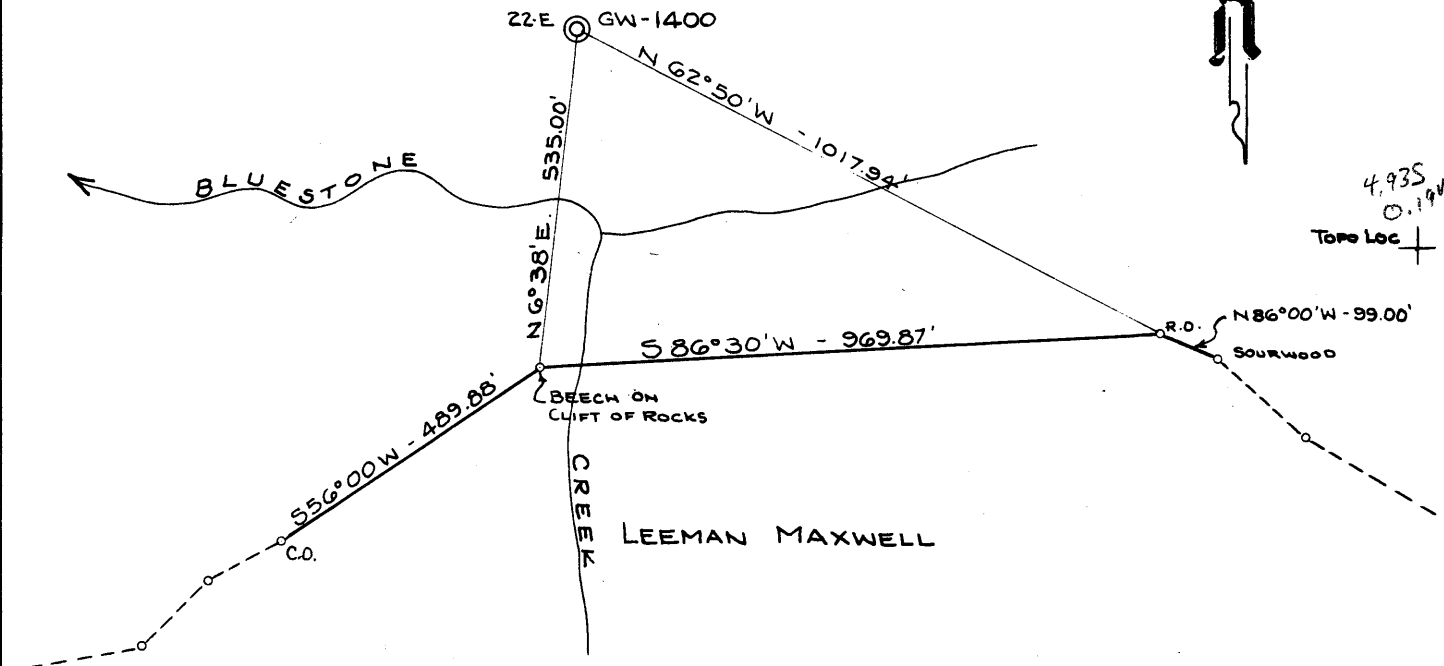
Longitude 80° 45'

NOTE - ELEVATION TAKEN FROM U.S.G.S. "825"
ELEVATION 825.00' ABOUT 2.1 MILES SE ALONG
STATE HIGHWAY 18 FROM JUNCTION U.S. 50 AT
WEST UNION, 18' WEST OF E RT. 18, IN TOP OF
THE ROCK WING WALL AT THE NW COR. OF A
15' CONCRETE BRIDGE. A STANDARD TABLET
STAMPED "34 JEA. "82J" 1962.

LEWIS MAXWELL
C-32-E 1562.00AS



4,935
0.14W
Topo Loc. +



THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS PRE-
SCRIBED BY THE OIL AND GAS DIVISION OF THE DEPART-
MENT OF MINES.

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.

Wanda K. Moore

New Location
Drill Deeper
Abandonment

Company CITIES SERVICE OIL Co.
Address BOX 873 CHARLESTON, W.VA.
Farm LEWIS MAXWELL
Tract _____ Acres 1562 Lease No. C-32-E
Well (Farm) No. 22-E Serial No. GW-1400
Elevation (Spirit Level) 919.49'
Quadrangle WEST UNION 7, 5498 W 015
County DODDRIDGE District WEST UNION
Engineer Wanda K. Moore
Engineer's Registration No. 2113
File No. _____ Drawing No. W-G-63
Date 1 MAR 63 Scale 1" = 300'

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

WELL LOCATION MAP
FILE NO. DOD-940

+ Denotes location of well on United States
Topographic Maps, scale 1 to 62500 lat-
itude and longitude lines being represented
by border lines as shown.

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

Sampler 1197-1761

6-6

(099)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 5

Quadrangle West Union 7 SW

Permit No. Dod -940

WELL RECORD

Oil or Gas Well gas
(KIND)

Company Cities Service Oil Company
Address P. O. Box 873, Charleston 23, W. Va.
Farm Lewis Maxwell Acres 1562
Location (waters) Bluestone Creek
Well No. E-22, GW-1400 Elev. 919.49'
District West Union County Doddridge
The surface of tract is owned in fee by Leeman Maxwell III
Address West Union, W. Va.
Mineral rights are owned by Mrs. Grace Gaylord, etal
420 Kemmerer Road Address State College, Pa.
Drilling commenced 4-15-63
Drilling completed 5-8-63
Date Shot not shot From _____ To _____
With _____
Open Flow 24/10ths Water in 1 Inch
_____/10ths Merc. in _____ Inch
Volume 51,630 Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED not acidized

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>none</u>
13			Size of _____
10 <u>3/4" 32#</u>	<u>61'</u>	<u>61'</u>	Depth set _____
<u>8 1/4" 24#</u>	<u>294'</u>	<u>294'</u>	Perf. top _____
<u>7" 23#</u>	<u>851'</u>	<u>none</u>	Perf. bottom _____
<u>4-1/2" 9.5#</u>	<u>1771'</u>	<u>1771'</u>	Perf. top _____
3			Perf. bottom _____
2			
Liners Used			

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
see reverse side
COAL WAS ENCOUNTERED AT none FEET _____ INCHES _____
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

WELL FRACTURED see reverse side

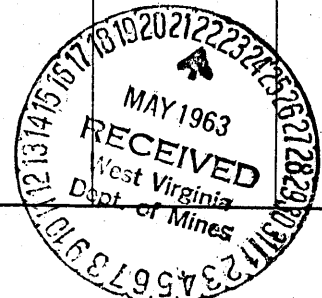
RESULT AFTER TREATMENT 44/10 M. 4-1/2" = 4,108 MCF (Big Lime and Big Injun)

ROCK PRESSURE AFTER TREATMENT 550# 48 hours - 585# 120 hours

Fresh Water 120' 165' Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	20'			
Red Rock			20	35			
Lime			35	54			
Sand			54	75			
Slate and Shells			75	99			
Sand			99	125	F. water	120'	4 blrs/hr.
Slate			125	135			
Red Rock and Shells			135	140			
Lime			140	150			
Sand			150	172	F. water	165'	hole full
Slate and Shells			172	190			
Grey Hard Lime			190	215			
Slate and Shells			215	292			
Lime			292	328			
Sand			328	340			
Slate and Shells			340	405			
Red Rock			405	480			
Slate and Shells			480	525			
Sand			525	540			
Slate and Shells			540	566			
Red Rock and Shells			566	590			
Sand			590	626			
Lime			626	635			
Red Rock and Shells			635	650			
Hard Lime			650	668			
Slate and Shells			668	773			
White Hard Lime			773	802			

(over)



Formation	Color	Hard or Soft	Top ⁵	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate and Shells			802	821			
Sand			821	873			
Slate			873	879			
Lime			879	884			
Sand			884	926			
Slate and Shells			926	934			
Sand			934	980			
Slate and Shells			980	1033			
Gritty Lime			1033	1065			
Salt Sand			1065	1125			
Slate and Shells			1125	1171			
Sand			1171	1181			
Slate and Shells			1181	1290			
Sand (3rd Salt Sand)			1290	1365			
Lime			1565	1400			
Slate and Shells			1400	1476			
Lime			1476	1535			
Sand			1535	1548			
Slate			1548	1556			Temperature Survey shows gas:
Big Lime			1556	1634			1340' - 3rd Salt Sand
Big Injun Sand			1634	1714			1570' - Big Lime
Slate			1714	1761'			1658') 1702') Big Injun
Total depth-----				1761'DLM=			1766' Schlumberger Meas.
Plugged back to-----				1740'			
Schlumberger Logs show:							
Salt Sand			1292	1365			
Big Lime			1559	1649			
Big Injun			1649	1712			
Perforated 5-13-63							
1651-1/2' 1652' 1652-1/2' - 3 way Radial Jet - 9 shots							
1667-1/2', 1668', 1668-1/2' 3 way Radial Jet- 9 shots							
1678-1/2' 1679'; 1679-1/2' 3 way Radial jet 9 shots							
1702' 3 way Radial Jet - 3 shots							
Total				30 shots			
Ran Schlumberger Logs: Gamma Ray, Neutron, Temperature, Caliper, Density & Induction.							
5-14-63 - Fractured the Big Injun							
Before fracturing gas gauged 52 MCF-Pumped in 250 gallons MCA- 1, 250 gallons 15% HCL.							
Broke down at 1700#-broke to 900# with 2 Allison's. Started sand 1#/gallon- 2 Allison's - 1400#.							
After 300 bbls. injected 10 perf balls. Pressure increased from 1600# to 1700#. After 150 more bbls. injected 10 balls - no change in pressure. Sand during treatment increased from 1# to 3-1/2#/gallon. Used 30,000# sand, 600 bbls. total fluid, 105,000 standard cubic feet of Nitrogen. Average pressure 1500# to 1700#. Average Injection rate 26 bbls/minute. Final open flow 44/10 M. 4-1/2" = 4,108 MCF							
Casing Record							
4-17-63				Ran 10-3/4" drive pipe at 61'			
4-20-63				Ran 8-5/8" casing with shoe at 291'DLM-set in 20' red mud.			
4-25-62				Ran 7" casing at 843'DLM with shoe-set in 20' red mud - pulled			
5-9-63				Ran 4-1/2" at 1761'DLM - R/L Nipple at 1,385' - 3 centralizers. Circulated with water. Cemented with 30 sacks. Pumped plug to 1,740'			

Date May 21, 19 63

APPROVED Cities Service Oil Company, Owner

By W. S. Moore, Division Superintendent
(Title)