

Latitude 38° 45'

NOTE:
ELEVATION TAKEN FROM O.R. LATHEY
GW-1356-Nº 1 WHICH WAS BASED FROM
U.S.G.S. "624" AT DEERLICK, W.VA

4,950' South of 38°45'
12,400' West of 81°45'

TOPO LOCATION
2.34-W

O.R. LATHEY

J.O. THORNTON

BERT MORRISON

HAZEL BAKER

50°

C-5725

LESTER BARNETT

75°

POST C-5502

ALFRED B. THORNTON
60°
C-5287

POST

WU-188 - 291.50

JACKSON G.W. 1397
MASON COUNTY

S09°45'W
319.44'

S07°40'W 753.47'

N56°05'W
364.46'

S12°22'E 971.22'

POST
S516°00'E 198.00'
STONE

WVA SEC RT. 32

Spruce

M.C. CASTO

J.V. MORRISON
103.50°
C-5301

JARRETT PARSONS

THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS
PRESCRIBED BY THE OIL AND GAS DIVISION OF THE
DEPARTMENT 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.

New Location
Drill Deeper
Abandonment

1 NC (I-7)

0.27 S.W.
2.34 W.

Company CITIES SERVICE OIL CO.

Address Box 273, CHARLESTON, W.VA.

Farm ALFRED B. THORNTON

PART OF 291.50

Tract Acres 60 Lease No. WU-188

Well (Farm) No. 1 Serial No. GW:1397

Elevation (Spirit Level) 867.24

Quadrangle WINFIELD-1 - 5095 W 235

County JACKSON District RIPLEY

Engineer

Engineer's Registration No. 2113

File No. Drawing No. W-12-63

Date 22 MAR 63 Scale 1"=600'

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

WELL LOCATION MAP
FILE NO. JAC-1059

+ Denotes location of well on United States
Topographic Maps, scale 1 to 62,500 lat-
itude and longitude lines being represented
by border lines as shown.

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

6-0 3/11

Samples 1500-2587 1087 MG-I-7 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 9

Quadrangle Winfield 1 SW

Permit No. Jac-1059

WELL RECORD

Oil or Gas Well Dry Hole
(KIND)

Company Cities Service Oil Company
Address Box 873, Charleston 23, W. Va.
Farm Alfred B. Thornton, et al Acres 60
Location (waters) Little Spruce Run
Well No. 1 - GW-1397 Elev. 867.24'
District Ripley County Jackson-
The surface of tract is owned in fee by A. B. Thornton, et al
Box 126 Address Evans, W. Va.
Mineral rights are owned by same
(for further add. contact C. S. O. C.) Address

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16" 42-65#	43'	pulled	Anchor Packer
13 3/8" 48#	640'4"	pulled	Size of 4-1/2"
10 3/4" 40#	1317'	pulled	Depth set 4,906'
8 1/2" 24#	1961'	pulled	
7" 23#	2601'	pulled	
4-1/2" 16.5#	4971'	534'	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Drilling commenced 4-9-63
Drilling completed 6-28-63
Date Shot not shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume none Cu. Ft.
Rock Pressure lbs. hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED not acidized
WELL FRACTURED see reverse side

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

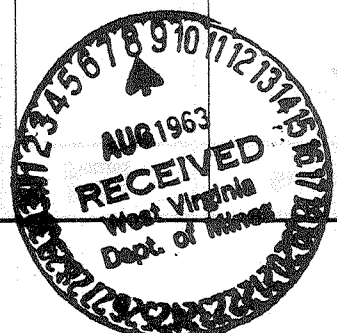
RESULT AFTER TREATMENT dry hole - plugged and abandoned 7-30-63

ROCK PRESSURE AFTER TREATMENT
Fresh Water Feet Salt Water 1193' 2105' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			0	21			
Red Rock			21	40			
Slate			40	55			
Sand			55	64			
Red Rock			64	85			
Slate			85	117			
Red Rock			117	132			
Slate			132	157			
Red Rock			157	204			
Slate			204	312			
Red Rock			312	330			
Slate			330	368			
Red Rock			368	385			
Slate			385	405			
Red Rock			405	447			
Slate			447	464			
Sand			464	485			
Red Rock			485	519			
Slate			519	544			
Red Rock			544	586			
Slate			586	653			
Sand			653	659			
Slate			659	704			
Red Rock			704	708			
Slate			708	730			
Red Rock			730	760			
Slate			760	765			

(over)

Dry Well



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock			765	779			
Slate			779	819			
Red Rock			819	824			
Slate			824	844			
Red Rock			844	865			
Slate			865	941			
Red Rock			941	950			
Slate			950	970			
Sand			970	1062			
Slate			1062	1183			
Sand - Big			1183	1282	S. water	1193'	1-1/2 13"blr/hr
Slate			1282	1335	1317'DLM=	1317'SLM	
Sand			1335	1436			
Slate and Shells			1436	1762			
Sand - salt sand			1762	1802			
Slate			1802	1843			
Sand - salt sand			1843	1927			
Lime - Big			1927	2055			
Sand - Injun			2055	2209	S. water	2105'	4-8"blr/hr.
Slate			2209	2270			
Sand - WEIR			2270	2308			
Slate and Shells			2308	2512			
Brown Shale			2512	2545			
Berea Sand			2545	2557			
Slate			2557	3742	2587'DLM=	2582' Sch. Meas.	
Brown Shale - 441			3742	3801			
Slate and Shells			3801	3970			
Brown Shale			3970	4207			
Slate			4207	4550			
Brown Shale			4550	4805			
Lime - Hundersville			4805	4908			
Oriskany Sand			4908 SLM	4930	4908'SLM=	4910'DLM	
Lime - Helderberg			4930	4962			
Total depth-----				4962'	485	4	
Plugged back depth-----				4930'			
Plugged and abandoned 7-30-63							
CASING RECORD							
4-17-63	Ran 13-3/8" casing at 635'DLM with shoe-gelled with 6 sacks-no circ. or returns.						
4-25-63	Ran 10-3/4" casing with shoe 1317'SLM=1317'DLM						
5-2-63	Ran 8-5/8" casing at 1938'DLM-gelled with 8 sacks-Circ. and returns.						
5-20-63	Ran 7" casing at 2587'DLM=2582'SLM--R/L nipple 407' off bottom.						
7-2-63	Ran 4-1/2" at total depth-centralizers on 1st, 4th and 7th joints. Float check 50' off bottom. Anchor packer at 4,906' - pumped in 45 sacks cement-R/L nipple 526' off bottom.						
Ran Schlumberger Logs: Gamma Ray, Neutron, Lateralog, Caliper, Gamma Gamma, (Density)							
FRACTURED THE ORISKANY 7-10-63							
Pumped in 500 gallons MCA, 1,000 gallons regular acid. Loaded and pumped in with 1 pump at 3500#. Broke to 900# - displaced acid - broke down with 4 pumps at 4,000#. Dropped gradually to 3200#. Started sand 1/4# - went to maximum of 1-1/4# during treatment. Used 15,000# sand, 110,000 standard cu. ft. of Nitrogen (143 S. C. F./bbl.), 20,000 gallons sand laden fluid and 30,000 gallons of fluid total. Average injection rate 23 bbls/minute, 250# FLA and 10 gallons of detergent. Pressure dropped to 500# when shut down. Opened well-flowed and gradually died. Swabbed - made 200' salt water - 15 minutes after swabbing gas gauged from 60 to 84M - 20 minutes after swabbing gas would not gauge.							

Date August 7, 1963

APPROVED Cities Service Oil Company, Owner

By W. S. Moore, Division Sup't
(Title)