

NOTE:
 ELEVATION TAKEN FROM U.S.C.G. 2-94
 ELEVATION 1077.00' APPROX. .3 MILES
 EAST OF W.VA. RT. 19 & SEC. RT. 19/7
 JUNCTION 35' LEFT OF RT. 19- STANDARD
 DISK STAMPED "294"

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

New Location
 Drill Deeper
 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 PARAGRAPHS 6 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF MINES AND THE MINING LAWS OF WEST VIRGINIA.

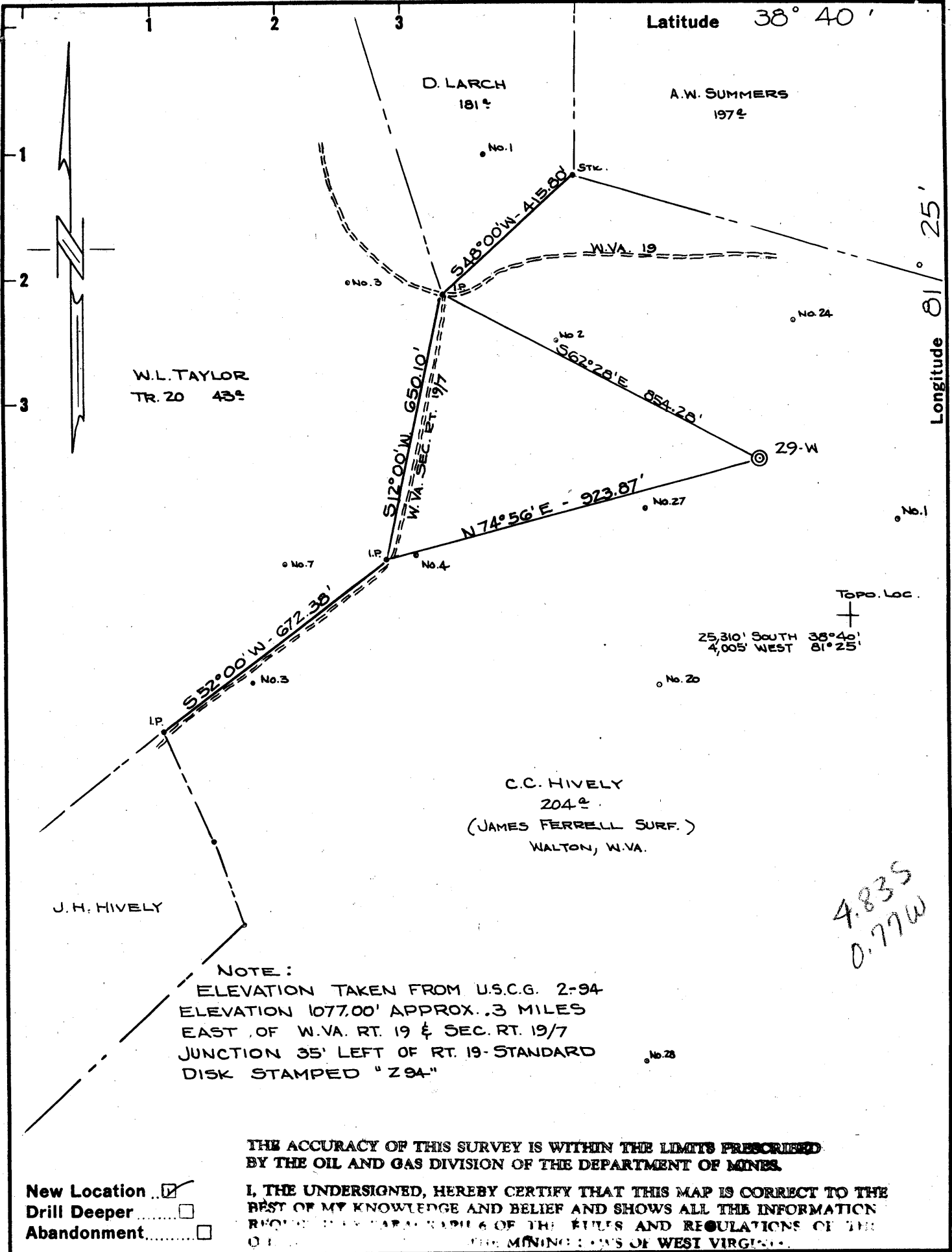
Pennzoil Co.
 Company ~~...~~
 Box 1588, Parkersburg, W. Va.
 Address ~~...~~
 Farm C.C. HIVELY
 Tract _____ Acres 204 Lease No. _____
 Well (Farm) No. 29-W Serial No. _____
 Elevation (Spirit Level) 939.08 *WC*
 Quadrangle WALTON - 4 S400 W-078
 County ROANE District WALTON
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-14-64
 Date 22 APRIL 64 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. ROA-1051-P

+ Denotes location of well on United States Topographic Maps, scale 1 to 62500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

47-087



Company CITIES SERVICE OIL COMPANY
 Address BOX 873 CHARLESTON, W.VA.
 Farm C.C. HIVELY
 Tract _____ Acres 204 Lease No. _____
 Well (Farm) No. 29-W Serial No. _____
 Elevation (Spirit Level) 939.08
 Quadrangle WALTON - 4 5486 W-078
 County ROANE District WALTON
 Engineer Wendell S Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-14-6A
 Date 22 APRIL 64 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. ROA-1051

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Samplers 1300-1928'

60 196



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 16

Rotary
 Spudder
 Cable Tools
 Storage
 Oil or Gas Well **Water Injection**
(KIND)

Quadrangle Walton 4 SW
 Permit No. Roa-1051

WELL RECORD

Company Cities Service Oil Company
 Address Box 873, Charleston 23, W. Va.
 Farm C. C. Hively, et al Acres 204
 Location (waters) _____
 Well No. 29-W Elev. 939.08'
 District Walton County Roane
 The surface of tract is owned in fee by James Ferrell
 Address Walton, W. Va.

Mineral rights are owned by W. K. Girard, et al
 (for further add. contact C. S. O. Co)
 Address _____

Drilling commenced 5-4-64
 Drilling completed 6-11-64
 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 not acidized
 WELL FRACTURED not fractured

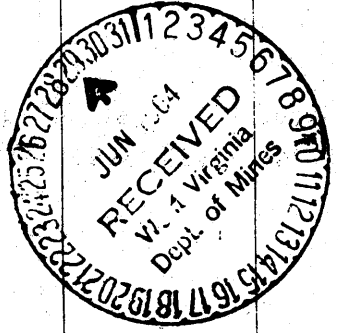
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>Anchor packer</u>
13			Size of <u>4-1/2"</u>
10 <u>3/4" 32#</u>	<u>15'</u>	<u>15'</u>	Depth set <u>1997'</u>
<u>8 1/2" 24#</u>	<u>673'</u>	<u>673'</u>	Perf. top _____
<u>4-1/2" 9.5#</u>	<u>1873'</u>	<u>1447'</u>	Perf. bottom _____
<u>4-1/2" 9.5#</u>	<u>2072'</u>	<u>2072'</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 _____

RESULT AFTER TREATMENT Water Injection well
 ROCK PRESSURE AFTER TREATMENT _____
 Fresh Water 50-60' Feet _____ Salt Water 1542' Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Loam			0	15			
Pink Shale			15	60	F. water	50-60'	hole full
Sandy Shale			60	90			
Shale			90	98			
Lime			98	105			
Sand			105	175			
Shale			175	200			
Pink Shale			200	237			
Blue Shale			237	275			
Grey Sand			275	310			
Blue Shale			310	316			
Grey Shale			316	335			
Red Shale			335	370			
Blue Slate			370	377			
Red Shale			377	397			
Grey Shale			397	417			
Red Shale			417	435			
Grey Shale			435	446			
Red Shale			446	486			
Grey Shale			486	505			
Red Shale			505	518			
Grey Shale			518	540			
Red Mud			540	565			
Grey Mud			565	585			
Red Shale			585	600			
Blue Shale			600	608			
Red Shale			608	690			



Formation	Color	Hard or Soft	Top 16	Bottom	Oil, Gas or Water	Depth Found	Remarks
Blue Slate			690	715			
Grey Sand			715	725			
Slate and Shells			725	785			
Grey Sand			785	890			
Slate and Shells			890	917			
Sand			917	996			
Slate and Shells			996	1052			
Sand			1052	1120			
Slate and Shells			1120	1240			
Sand			1240	1370			
Lime			1370	1402			
Salt Sand			1402	1807	Oil & Gas	1520-28'	show
Little Lime			1807	1835	S. water	1542'	hole full
Pencil Cave			1835	1845			
Big Lime			1845	1991			
The following depths from Sch. Logs							
Big Injun			1991	2024			
Squaw Sand			2025	2032			
Slate and Shells			2032	2061 dlm=2062'	Sch. Meas.		
Total depth-----				2061' DLM=2062' Sch. Meas.			
plugged back depth-----				2051			
Cored well from 1965 to 2027'							
<u>Casing record</u>							
5-12-64	Ran 8-5/8" casing with shoe at 646' DLM						
5-22-64	Ran 7" casing with shoe at 1857' DLM-R/L nipple 3 joints off bottom. Set in 20' red mud. Pulled 426' later.						
6-12-64	Ran 4-1/2" at T. D. with shoe on bottom, Centralizers 32', 103' and 230' off bottom- Anchor packer at 1997' - R/L nipple at 1715'. Cemented with 30 sacks Latex cement. Pumped plug to 2030'.						
6-11-64	Schlumberger ran logs: Gamma Ray, Neutron, Induction, Density, Caliper and Temperature.						

Date June 26, 1964

APPROVED Cities Service Oil Company, Owner

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