

Grant Copenhafer - 80°
Quincy Coal Co. - 20°
Quincy Coal Co. - 71°
G.S. Baxter - 129°

REVISED PLAT

Fracture	<input type="checkbox"/>
Before 6/5/27	<input type="checkbox"/>
New Location	<input checked="" type="checkbox"/>
Drill Deeper	<input type="checkbox"/>
Redrill	<input type="checkbox"/>
Abandonment	<input type="checkbox"/>

5-15-74

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.

The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

PROVEN ELEVATION 4265 653

Company CITIES SERVICE OIL COMPANY

Address Box 873 CHARLESTON, W.VA.

Farm GRANT COPENHAVER CONSOL.
Part of 300±.

Tract _____ Acres 80 Lease No. WU-245

Well (Farm) No. B-1 Serial No. GW-1655

Elevation (Spirit Level) 788.9

Quadrangle CHARLESTON - 1 NE

County KANAWHA District ELK

Engineer Wendell S. Moore

Engineer's Registration No. 2113

File No. _____ Drawing No. 11-4-69

Date 7-22-69 Scale 1" = 400'

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

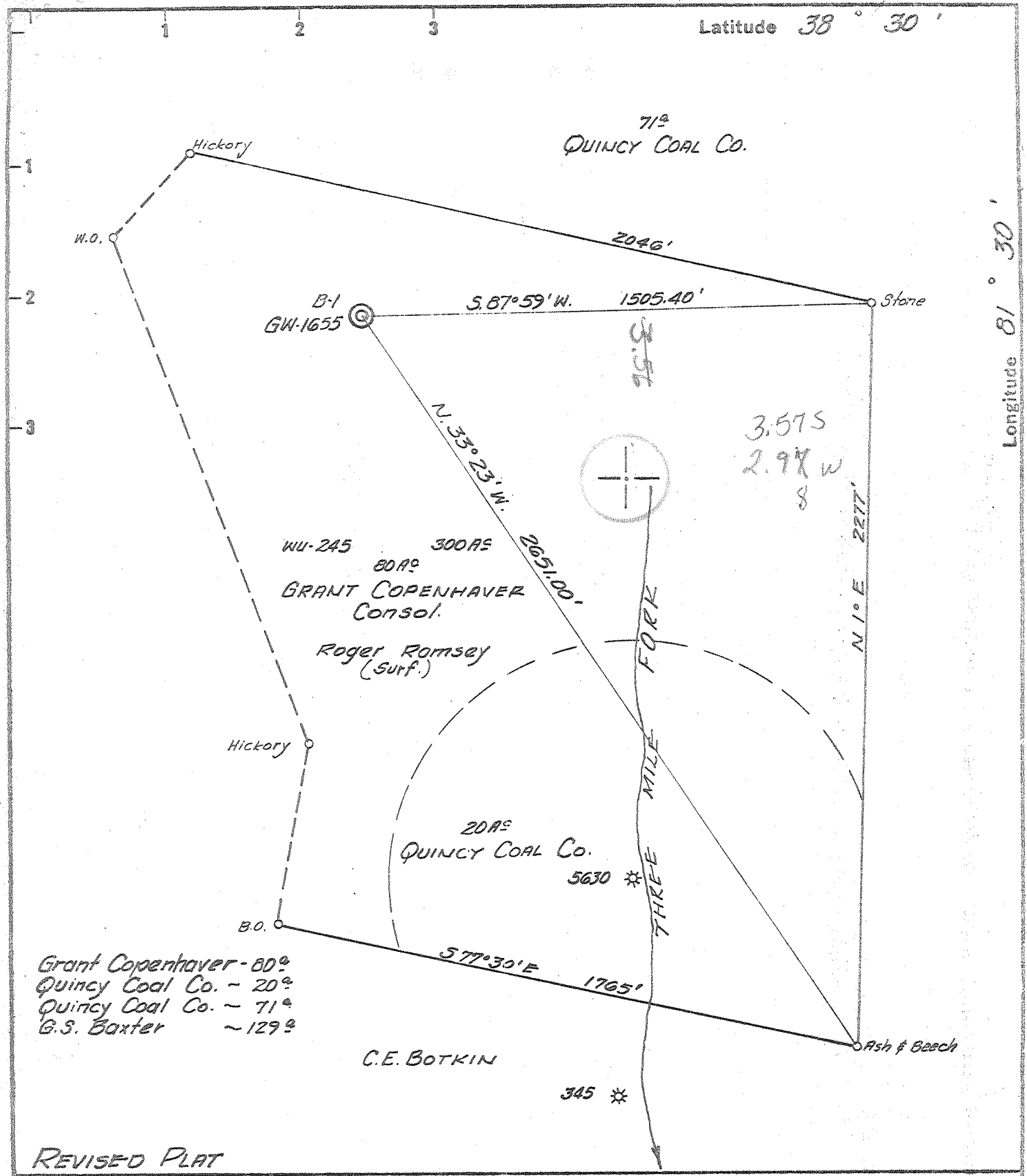
WELL LOCATION MAP
FILE NO. Kan-2420-Rev. P

+ 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.

Deep well

JUN 21 1974



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 Quincy Coal Co. - 20°
 Quincy Coal Co. - 71°
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C.E. BOTKIN

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 The accuracy of this survey is within the limits and as prescribed in paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.
 PROVEN ELEVATION 4565.633

Company CITIES SERVICE OIL COMPANY
 Address BOX 873 CHARLESTON, W.VA.
 Farm GRANT COPENHAVER CONSOL.
 Part of 300 AS
 Tract _____ Acres 80 Lease No. WV-245
 Well (Farm) No. B-1 Serial No. GW-1655
 Elevation (Spirit Level) 788.9
 Quadrangle CHARLESTON - 1 NE
 County KANAWHA District ELK
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-4-69
 Date 7-22-69 Scale 1" = 400'

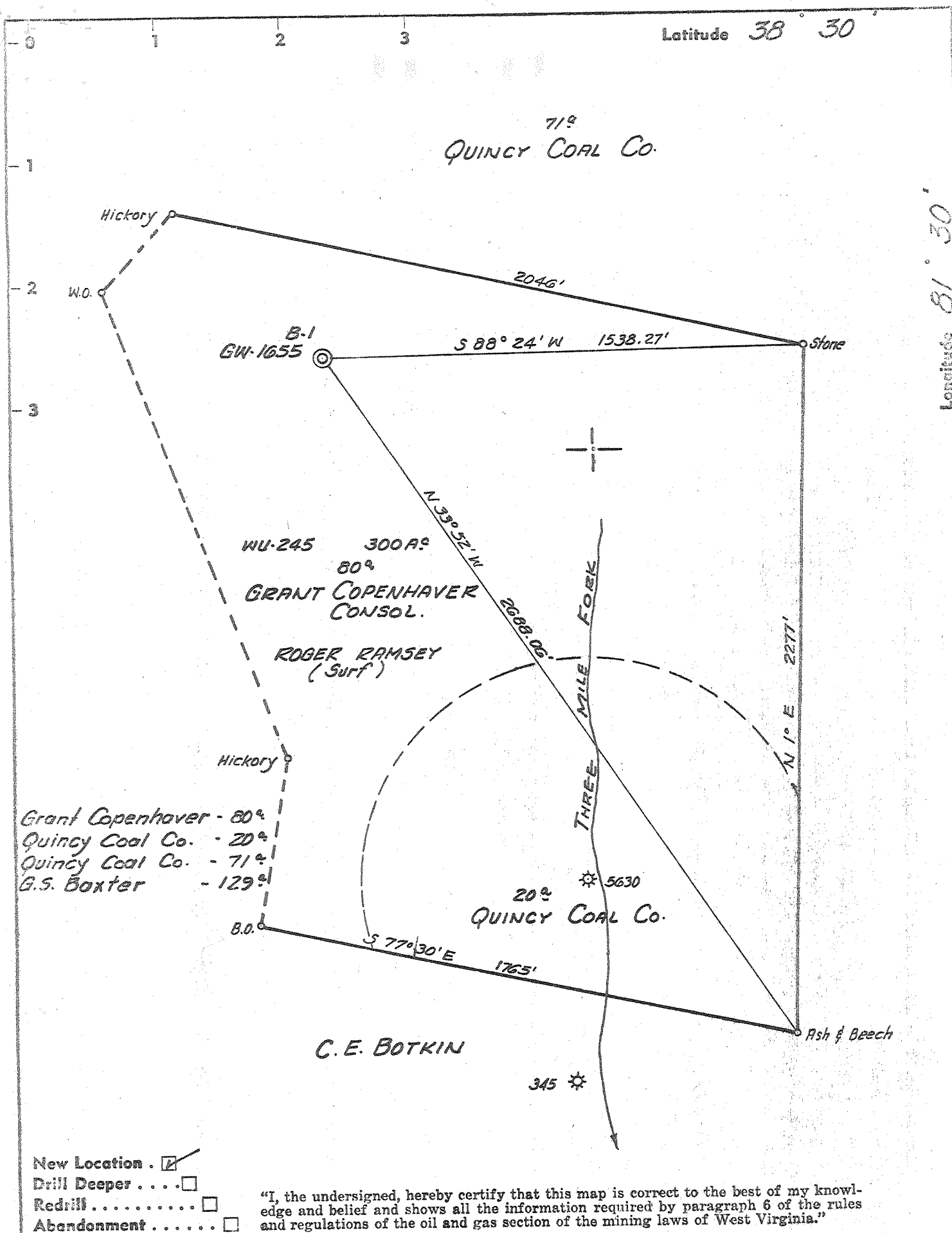
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Kan-2420-Rev.

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Deep Well (Newburg)



- New Location
- Drill Deeper
- Redrill
- 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 paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company CITIES SERVICE OIL COMPANY
 Address Box 873 CHARLESTON, W.VA.
 Form GRANT COPENHAVER CONSOL.
 Tract Part of 300 Acs Acres 80 Lease No. WU-245
 Well (Farm) No. B-1 Serial No. GW-1655
 Elevation (Spirit Level) 796.7
 Quadrangle CHARLESTON - 1 NE
 County KANAWHA District ELK
 Engineer Wendell S Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-4-69
 Date 7-1-69 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. Kan-2420

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Deep Well (Newburg)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Charleston 1
Permit No. KAN-2420

WELL RECORD

Oil or Gas Well Gas
(KIND)

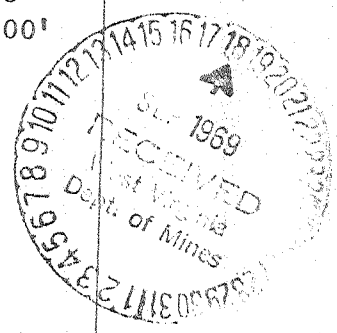
Company Cities Service Oil Company
Address Box 873, Charleston, W. Va.
Farm Grant Copenhaver Cons. Acres 300
Location (waters) Three Mile Fork
Well No. "B" #1, GW-1655 Elev. 788.9
District Eik County Kanawha
The surface of tract is owned in fee by Roger Ramsey
330 Chaucer St. Apt. #2 Address Overland, Mo.
Mineral rights are owned by L. O. Baxter, et al
for further add. contact C. S. Oil Co.)
Address
Drilling commenced 7-31-69
Drilling completed 8-15-69
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 (DETAILS) not acidized
WELL FRACTURED (DETAILS) see reverse side

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer <u>none</u>
13 7/8" 48#	67'	67'	Size of <u> </u>
10			Depth set <u> </u>
8 1/4" 24#	1824'	1824'	
5 1/2" 17#	5665'	5665'	
4 1/2			
3			Perf. top <u> </u>
2 3/8" 4.6#	5719'	5719'	Perf. bottom <u> </u>
Liners Used <u>with cage</u>			Perf. top <u> </u>
			Perf. bottom <u> </u>

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags)
Name of Service Co. see reverse side
COAL WAS ENCOUNTERED AT none FEET INCHES
 FEET INCHES FEET INCHES
 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 1,225 MCFD (Newburg) 1,225,000
ROCK PRESSURE AFTER TREATMENT 48 HOURS 2,239#
Fresh Water 140, 200' Feet Salt Water 975', 1100, Feet
Producing Sand Newburg Sand Depth 5672-5690' per electric logs

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
andy Shale			0	60			
nd			60	86			
nd and Shale			86	180	F. water	140'	
ale			180	200	F. water	200'	
nd and Shale			200	250			
nd			250	325			
nd and Shale			325	617			
le			617	830			
nd and Shale			830	1194-364	S. Water	975'	
nd			1194	1510-316	S. Water	1100'	
y Lime			1510	1615 105			
ne and Shale			1615	1640-25			
d - hyun			1640	1687-47			
d and Shale			1687	1825			
le			1825	2650			
d and Shale			2650	3095			
le			3095	4790			
ne			4790	4890			
d - Oriskany			4890	5032			
ne			5032	5720	Gas	5675'	est. 500M
al depth - <u>McKenzie</u>							
etric Logs showed:							
burg Sand			5672	5690			



5672
789
4883

Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
CASING RECORD							
8-1-69							Set and cemented 67' of 13-3/8" 48# new casing at 86'
8-5-69							Ran 8-5/8" 24# 8 rd J-55 casing at 1824' KBM. Guide shoe and fill up collar at 1791', 1699 and 1601'. Pumped 50 bbls. 6% gel with lost circulation material. Cemented with 260 sacks Lite-Poz 3 cement (Halliburton), 100 sacks regular cement with 2% ca. cl. Good circulation and returns.
8-11-69							Set and cemented 5-1/2" 17# J-55 new casing at 5620' with 125 sacks of Pozmix and 35 sacks Latex. Pumped 260 bbls. of 6% gel with lost circulation material ahead of cement. Good circulation of gel. Float at 5587'. Centralizers at 5587', 5492', 5396' and 5297'
8-11-69							Ran Schlumberger Gamma Ray Log in drill pipe. Drillers' depth 5550'. Schlumberger depth 5553'. Top of Onondaga 4790'.
8-15-69							Ran Schlumberger Gamma Ray Dual Induction and Compensated Formation Density Log. Schlumberger T. D. 5720'
9-3-69 FRACTURED THE NEWBURG SAND							
							Pumped in 500 gallons of mud acid and 1,000 gallons of regular 15% acid. Followed with 13,500# 20-40 sand in 18,100 gallons of gelled water. Maximum treating pressure 5200#. Average treating pressure 4819#. Average injection rate 20.6 bbl/min. Used 666 barrels of fluid. Flowing back.
9-15-69							Final open flow 1,225 MCFD with mist of fluid. 48 Hour S. I. pressure 2239#.

Date September 17, 19 69

APPROVED Cities Service Oil Company, Owner

By L. D. Todd, Region Manager
(Title)