

81 45

Fracture Before 6/5/27
 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 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 USC & G Y-106

MAILED 5/24/74
 Carl E. Smith, Inc.
 Company ~~CITIZEN SERVICE OIL COMPANY~~
 P.O. Box 4, Sandyville
 Address ~~Box 815, Charleston, W. Va. 25278~~
 Farm D.K. SMITH, ET AL
 149th Part of
 Tract _____ Acres 241 Lease No. WU-220
 Well (Farm) No. A-1 Serial No. GW-1612
 Elevation (Spirit Level) 803.98
 Quadrangle RAVENSWOOD SE
 County JACKSON District RIPLEY
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-16-66
 Date 8 DEC 66 Scale 1"=660

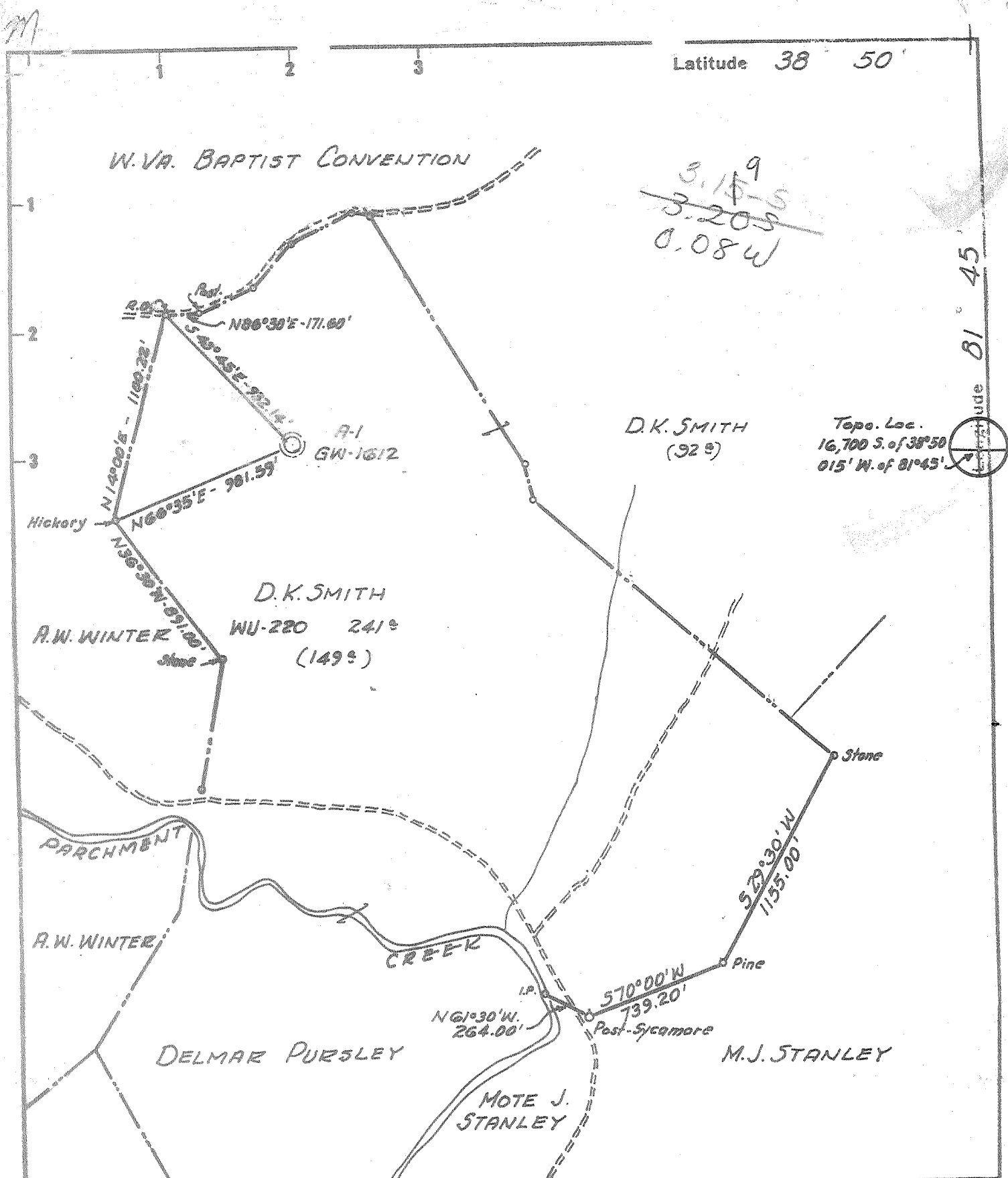
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Jac-1133-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.

47-035



Latitude 38 50'

Longitude 81° 45'

3.159
~~3.205~~
 0.084

Topo. Loc.
 16,700 S. of 38° 50'
 015' W. of 81° 45'

D.K. SMITH
 (92°)

D.K. SMITH
 WU-220 241°
 (149°)

A.W. WINTER
 Stone

PARCHMENT

A.W. WINTER

CREEK

DELMAR PURSLEY

MOTE J.
 STANLEY

M.J. STANLEY

- Fracture Before 6/5/27
- New Location
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 PROVEN ELEVATION USCG Y-106

Company CITIES SERVICE OIL COMPANY
 Address Box 873, Charleston, W. Va.
 Farm D.K. SMITH, ET AL
 149° Part of.
 Tract _____ Acres 241 Lease No. WU-220
 Well (Farm) No. A-1 Serial No. GW-1612
 Elevation (Spirit Level) 803.98
 Quadrangle RAVENSWOOD-5E
 County JACKSON District RIPLEY
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-16-66
 Date 8 DEC 66 Scale 1"=660

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

WELL LOCATION MAP
 FILE NO. Jac-1133

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66 311

Newburg



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

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Ravenswood

WELL RECORD

Oil or Gas Well Gas
(KIND)

Permit No. Jac-1133

Company Cities Service Oil Company
 Address P.O. Box 873, Charleston, W. Va. 25323
 Farm D. K. Smith, et al Acres 241
 Location (waters) Parchmen Creek
 Well No. "A" #1, GW-1612 Elev. 803.98'
 District Ripley County Jackson
 The surface of tract is owned in fee by D. K. Smith
FD #4, Box #377 Address Charleston, W. Va.
 Mineral rights are owned by D. K. Smith, et al
 or further add. contact C. S. O. Co
 Address _____
 Drilling commenced 12-31-66
 Drilling completed 1-30-67
 Date Shot not shot From _____ To _____
 With _____

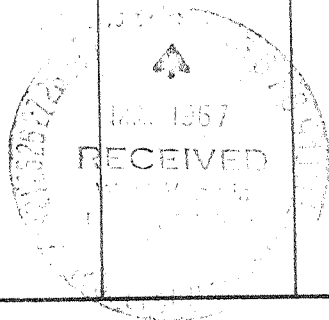
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			none
1 3/8" 48#	167'	167'	Size of
10			Depth set
8 1/4" 24#	2537'	2537'	
6 5/8"			Perf. top <u>5616</u>
5 3/16"			Perf. bottom <u>5620</u>
4 1/2" 11.6#	5705'	5705'	Perf. top _____
3			Perf. bottom _____
2 3/8" 4.7#	5518'	5518'	
Liners Used	with cage		

Open Flow /10ths Water in _____ Inch
 /10ths Merc. in _____ Inch
 Volume 5,874M Cu. Ft.
 Rock Pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 WELL ACIDIZED (DETAILS) not acidized
 WELL FRACTURED (DETAILS) see attached sheet

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.) 21,645 MCF (Newberg)
 ROCK PRESSURE AFTER TREATMENT 5 das 1845#
 Fresh Water _____ Feet _____ Salt Water _____ Feet _____
 Producing Sand Newberg Depth 5612-5628'

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			xx 0	yx 3			
Sand			3	10			
Red Rock			10	15			
Sand			15	20			
Shale			20	35	Berea	2463 - 2468	
Red Rock			35	42	Onondaga	4787 -	
Sand			42	48	ORISKANY	4884 - 4917	
Red Rock			48	70	NEWBURG	5612 - 5628	
Shale			70	135			
Sand			135	144			
Shale			144	162			
Sand			162	207			
Red Rock			207	220			
Shale			220	250			
Red Rock			250	260			
Shale			260	290			
Sand			290	315			
Shale			315	385			
Sand			385	400			
Shale			400	495			
Sand - 18 P.H.s.?			495	629			
Shale			629	660			
Sandy Shale			660	712			
Shale			712	731			
Sand			731	737			
Shale			737	766			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			766	822			
Shale			822	836			
Sand			836	953			
Red Rock			953	968			
Sand and Shale			968	1030			
Sand			1030	1145			
Shale			1145	1160			
Sand			1160	1352			
Shale			1352	1357			
Sandy Shale			1357	1423			
Sand			1423	1688			
Shale			1688	1723			
Sand - <i>soft sand</i>			1723	1849			
Lime - <i>Big lime</i>		340	1849	1980			
Shale			1980	1988			
Sand - <i>Irregular</i>			1988	2038			
Sand and Shale			2038	2078			
Sand			2078	2111			
Shale			2111	2245			
Sandy Shale			2245	2298			
Sand - <i>W&R</i>			2298	2338			
Shale			2338	2380			
Sandy Shale			2380	2458			
Berea Sand			2458	2468			
Shale			2468	3336			
Lime and Shale			3336	3473			
Shale			3473	3767			
Sand and Shale			3767	3840			
Shale			3840	4788			
Corniferous Lime - <i>463</i>			4788	4826			
Sandy Lime			4826	4845	Gas	4901'	small show
Sand			4845	4904			
Oriskany Sand			4904	4939			
Sandy Lime - <i>hard</i>			4939	4949			
Lime and Shale			4949	5028			
Red Lime & Shale			5028	5319			
White Lime & Shale			5319	5419			
Dark Lime			5419	5435			
Grey Lime			5435	5445			
Sand			5445	5621			
Break			5621	5627			
Sand			5627	5634			
Shale			5634	5652			
Sand			5652	5675			
Total depth				545			
Plugged back total depth				5675'	Drillers' measurement		
				5673'	Schlumberger's measurement		
				5665'			
Electric Log shows:							
Newberg			5612	5628			
Oriskany			4902	4917			

See attached sheet for additional information

Date _____, 19__

APPROVED _____, Owner

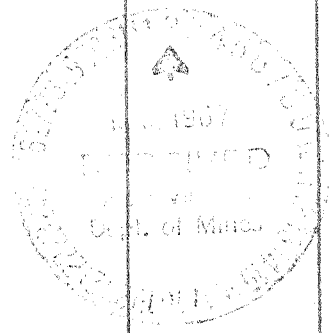
By _____ (Title)

Formation	Color	Hard or Soft	Top / A	Bottom	Oil, Gas or Water	Depth Found	Remarks
Additional information on GW-1612, D. K. Smith "A" #1							
Casing Record							
1-2-67	Set and cemented 13-3/8" 48# H-40 new casing with shoe at 160' with 125 sacks of regular cement with 3% Calcium Chloride. Cement circulated (Halliburton)						
1-18-67	Set and cemented 8-5/8" 24# J-55 A & B Grade casing at 2502' with 115 sacks of regular cement with 2% Calcium Chloride and friction reducer. Centralizers at 2469', 2369', 2237' and 2006'. Casing set down at 2497'. Circulated casing down to 2502'. Set 28' off T. D. of 2530'						
2-4-67	Set and cemented 4-1/2" 11.6# J-55 new casing at 5673' with 136 sacks Pozmix with 52 sacks of Latex Cement on bottom. Worked casing 15' while cementing. Baker Reciprocating Scratchers on 12' centers 5670-5420'. Centralizers at 5665', 5571', 5440', 5387', 5075' and 4930'						

Cored Newberg Sand - Core #1 5598' to 5604' - Cut 6' and recovered 4.5'. Average coring time 58 minutes/foot.							

2-3-67	Ran Schlumberger Gamma Ray, Caliper, Density and Induction Electrical Logs.						
2-13-67	Ran Cement Bond Log, Gamma Ray Correlation Log and Collar Locator Log.						

2-13-67	Correlated Gamma Ray logs and perforated Newberg Sand 5616-5620' with 4 shots/foot. Swabbed casing to 2,000' and well kicked off. Gas gauging 5187 MCF/L after 30 minutes - after 45 minutes gauged 5,874 MCF.						
FRACTURED THE NEWBERG SAND 2-14-67							
Pumped 500 gallons mud acid and 1,000 gallons regular acid into the Newberg Sand. Formation broke down at 4,800#. Fraced the Newberg Sand with 30,000# 20-40 sand in 19,000 gallons gelled water. Maximum treating pressure 5,000#. Average 3,900#. Immediate S. I. pressure 3,000#. AIR 21.3 bbls/min. Used 575 bbls. fluid during treatment. Put radio active material in during treatment. Flowed back 3 hours and died. Ran 2" tubing.							
Final open flow 21,645 MCF - 5 day shut in pressure 1845# on tubing							



Date Feb. 28, 1967

APPROVED Cities Service Oil Company, Owner

By L. D. Todd, Dist. Sup't
(Title)