

Plot

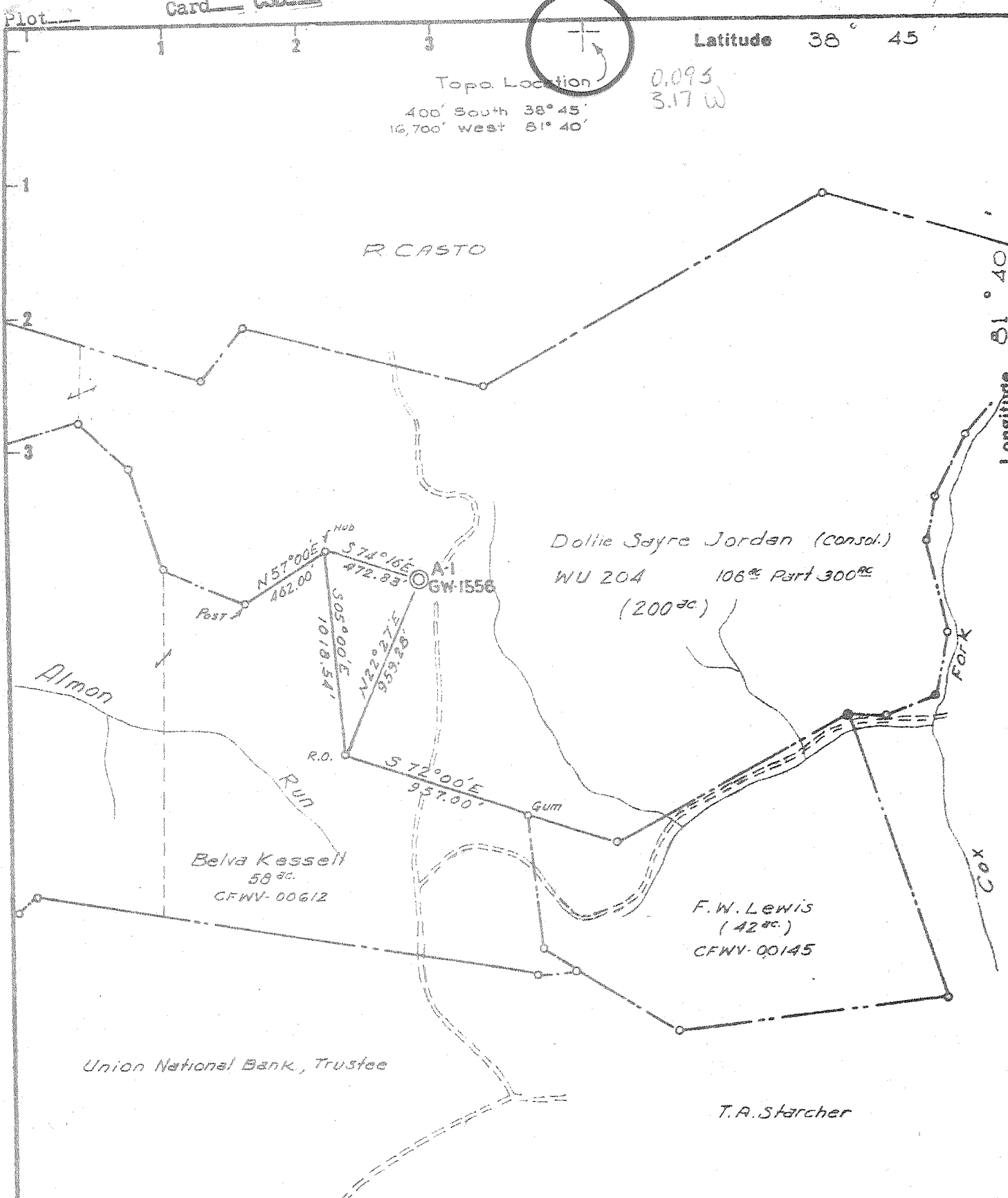
Card GSD

Latitude 38° 45'

Topo. Location

400' South 38° 45'
16,700' West 81° 40'

0.093
3.17 W



Longitude 81° 40'

- Fracture Before 6/5/27
- New Location
- Drill Deeper
- Redrill
- Abandonment

2/20/80

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 USCG 1106

Company CITIES SERVICE OIL COMPANY
 Address Box 873 CHARLESTON, W.VA.
 Farm DOLLIE SAYRE JORDAN (CONSOL)
 Part of 300 ac
 Tract Acres 106 Lease No. WU-204
 Well (Farm) No. A-1 Serial No. GW-1556
 Elevation (Spirit Level) 927.99'
 Quadrangle KENNA-3 NW
 County JACKSON District RIPLEY
 Engineer Wendell S. Moore
 Engineer's Registration No. 2113
 File No. _____ Drawing No. W-28-65
 Date 18-NOV-65 Scale 1" = 660'

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

WELL LOCATION MAP

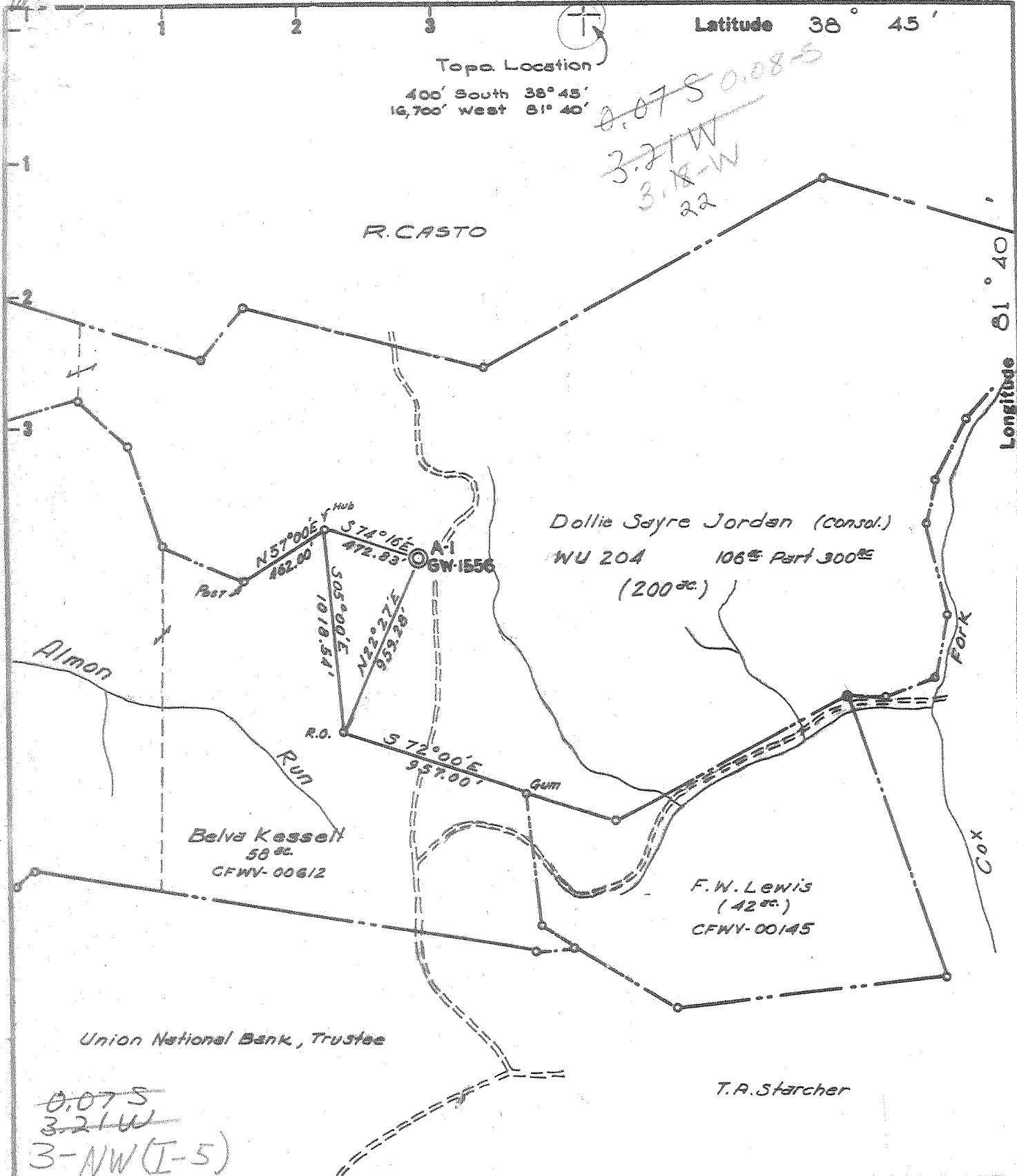
FILE NO. JAC-1118

47-035-1118-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.

MAR 5 1980



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PROVEN ELEVATION USCG T106

Company CITIES SERVICE OIL COMPANY
 Address BOX 873 CHARLESTON, W.VA.
 Farm DOLLIE SAYRE JORDAN (CONSOL)
 Part of 300 ac
 Tract Acres 106 Lease No. WU-204
 Well (Farm) No. A-1 Serial No. GW-1556
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. JAC-1118

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6-6 311

Deep Well



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

Rotary
Spudder
Cable Tools
Storage

Quadrangle Kenna 3
Permit No. Jac-1118

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Cities Service Oil Co.
Address Box 873, Charleston, W. Va., 25323
Name Dollie S. Jordan Acres 300
Location (waters) Almon Run
Well No. "A" #1, GW-1556 Elev. 927.99'
District Ripley County Jackson
The surface of tract is owned in fee by Dollie Jordan, et al
518 Wyoming St. Address Charleston, W. Va.
Mineral rights are owned by Dollie Jordan, et al
for further add. contact C. S. O. Co
Address
Drilling commenced 11-30-65
Drilling completed 12-7-65
Date Shot not shot From To

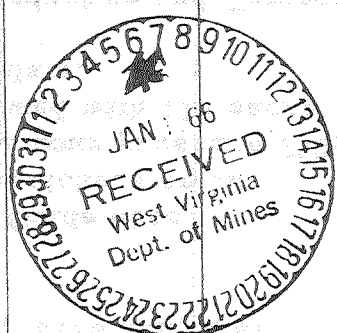
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			none
13 7/8" 48#	32'	32'	Size of
10			Depth set
8 1/2" 24#	2645'	2645'	Perf. top
6 3/4"			Perf. bottom
5 3/16"			Perf. top
4 1/2" 11.6#	5222'	5222'	Perf. bottom
3"			
3 7/8" 4.6#	5114'	5114'	
Liners Used	with cage		

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 348M Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) see reverse side
WELL FRACTURED (DETAILS) see reverse side

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.) 9/10 M. 2" = 467 MCF (Oriskany)
ROCK PRESSURE AFTER TREATMENT 89 HOURS 870# B. H., 640# tubing
Fresh Water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Depth 5083-5134' per electric logs

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	10			
Slate			10	25			
Red Rock			25	200			
Slate and Red Rock			200	800			
Sand			800	860			
Slate			860	1220			
Sand			1220	1340			
Slate and Shells			1340	1675			
Sand <u>Sand</u>			1675	2025			
Lime			2025	2145			
Sand			2145	2250			
Slate			2250	2595			
Brown Shale			2595	2612			
Berea Sand			2612	2625			
Slate			2625	3125			
Shale			3125	4745			
Brown Shale			4745	4990			
Lime <u>Ag3</u>			4990	5095			
Oriskany Sand			5095	5150	Gas	5083-5134'	348M
Lime <u>Heldrobey</u>			5150	5200	TD 585		
Total depth							5200' Driller's Meas. 5198' Schlumberger's meas.
Plugged back depth							5163'



Formation	Color	Hard or Soft	Top ⁹	Bottom	Oil, Gas or Water	Depth Found	Remarks
Electric Log shows:							
Oriskany Sand			5083	5134			
CASING RECORD							
1-30-65	Set 13-3/8" 48# H-40 Grade B casing at 41' with 10 sacks of cement.						
2-11-65	Set and cemented 8-5/8" 24# J-55 casing, Grade B, with shoe at 2634' with 100 sacks of Pozmix. Centralizers at 2602', 2473', 2376' and 2281' R/L nipple at 2087'.						
2-18-65	Set 4-1/2" 11.6# J-55 new casing at 5198' with Whirler Guide Shoe. Centralizers at 5176', 5112', 5048', 4984' and 4923'. Scratchers on 12' centers 5188-4946'. R/L nipple at 4587'. On 12-19-65 12 hour pressure 750#. Mixed and pumped 224 bbls. mud with Flo-cel and followed with 115 sacks Pozmix Cement with friction reducer. Hole did not circulate.						
2-18-65	Ran Schlumberger Logs: Gamma Ray, Density, Caliper, Induction and Temperature.						
2-21-65	Ran Cement Bond Log.						
2-21-65	Perforated Oriskany Sand 5093-99' with 4 shots/foot.						
2-22-65	Fractured the Oriskany Sand						
	Spotted 1,000 gallons regular 15% acid and 500 gallons mud acid. Pulled tubing and fraced Oriskany Sand. Breakdown pressure 1900#. Maximum treating pressure 4,200#. Used 12,500# 20-40 sand, 23,500 gallons fluid total and 85,000 ft. of nitrogen. Varied sand density 1/4# to 1-1/2# during treatment. Average injection rate 22 bbls/min. Shut in pressure 3100#. Opened well at 2600# and started flowing back.						
2-29-65	Final open flow 9/10 M. 2" = 467 MCF (Oriskany)						

Date January 6, 19 66

APPROVED Cities Service Oil Company, Owner

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

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE MADE IN TRIPPLICATE, ONE COPY MAILED TO THE DEPARTMENT, ONE COPY TO BE RETAINED BY THE WELL OPERATOR AND THE THIRD COPY (AND EXTRA COPIES IF REQUIRED) SHOULD BE MAILED TO EACH COAL OPERATOR AT THEIR RESPECTIVE ADDRESSES.

COAL OPERATOR OR OWNER	Cities Service Company
ADDRESS	NAME OF WELL OPERATOR Box 873, Charleston, WV 25323
COAL OPERATOR OR OWNER	COMPLETE ADDRESS June 25, 1980
ADDRESS	WELL AND LOCATION Ripley District
Mrs. Dollie Jordan	Jackson County
518 Wyoming St., Charleston, W. Va.	Well No. "A" #1, GW-1556
-Floyd M. Sayre	Dollie S. Jordan, et al Farm
Box 1171, Beckley, WV 25801	
STATE INSPECTOR SUPERVISING PLUGGING.....Richard Morris, P. O. Box 372, Grantsville, WV 26147	

AFFIDAVIT

STATE OF WEST VIRGINIA, }
County of Kanawha } SS:

and
being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by Steve Duckworth & Sons Well Service, well operator, and participated in the work of plugging and filling the above well, that said work was commenced on the 10 day of June, 1980, and that the well was plugged and filled in the following manner:

SAND OR ZONE RECORD FORMATION	FILLING MATERIAL	PLUGS USED SIZE & KIND	CASING	
			CSG PULLED	CSG LEFT IN
	Jelled hole w/6% gel			
	Pulled 2-3/8" tubing		5114'	
	RFC cement plug 8 sx	5110-5010'		
	Pulled 4-1/2" casing		3259'	1963'
	RFC cement plug 20 sx	3280-3190'		
	Pulled 8-5/8" casing		275'	2359'
	RFC cement plug 22 sx	2680-2580'		
	RFC cement plug 11 sx	795'-745'		
	RFC cement plug 22 sx	480-380'		
	RFC cement plug 51 sx	285-185'		
	RFC cement plug 31 sx	64'-surface		41' of 13-3/8"
	Installed monument			
	Plugs from 795' to surface cover holes ripped in pipe and pipe puled			
COAL SEAMS	DESCRIPTION OF MONUMENT			
(NAME)	Jordan A-1, GW-1556			
(NAME)	47-035-1118-P			
(NAME)	P&A 6/80			
(NAME)				

and that the work of plugging and filling said well was completed on the 19 day of June, 1980

And further deponents saith not.

[Signature]

Sworn to and subscribed before me this 25th day of June, 1980

My commission expires:

[Signature] June 11 1989

JUN 26 1980 Commissioner

[Signature]
Notary Public

Permit No. 47-035-1118-P

OIL & GAS DIVISION
DEPT. OF MINES