

OGES 7.5' 60 15'
 38°17'30" .486 3.365
 81°40' .520 .520
 pch

- New Location
- Drill Deeper
- Redrill
- Abandonment
- Partial Plugging - 10-21-68 Conc.

SOURCE OF ELEVATION BM #812 MIDDLE FORK DAVIS CREEK

11-15-68
 "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 CHIEF DRILLING INC.

Address COLUMBUS, OHIO

Farm SAMUEL BROGAN (COURTLAND LEASE)

Tract Acres 300 Unit Lease No. CHIEF COURTLAND

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 910.23

Quadrangle CHARLESTON

County KANAWHA District LOUDON

Engineer ath. f. kel

Engineer's Registration No. 1530

File No. S-453 Drawing No. 1

Date Sept. 1, 1968 Scale 1"=500'

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

WELL LOCATION MAP

FILE NO. Kan-2301-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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

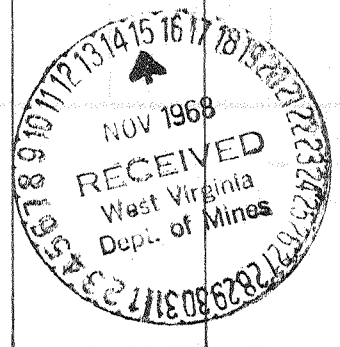
Quadrangle Charleston
Permit No. Kan - 2301-P

WELL RECORD

Oil or Gas Well Dry
(KIND)

Company <u>Chief Drilling, Inc.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>3179 Cleveland Ave. Columbus, Ohio</u>				
Farm <u>Chief Courtland</u> Acres <u>300 Ac.</u> UnSize				
Location (waters) <u>Simpson Fk. of Davis Ck.</u>	16			Kind of Packer
Well No. <u>1</u> Elev. <u>918.73KB</u>	13	40'	40'	
District <u>Loudon</u> County <u>Kanawha</u>	10			Size of
The surface of tract is owned in fee by <u>Samuel Brogan</u>	8 1/4	1710'	1710'	Depth set
Address <u>Chas., W. Va.</u>	6%			
Mineral rights are owned by <u>Courtland Land Co.</u>	5 3/16			
Address <u>Chas., W. Va.</u>	4 1/2	-	+1000'	
Drilling commenced <u>9-9-68</u>	3			Perf. top <u>5434-30</u> 8
Drilling completed <u>9-23-68</u>	2			Perf. bottom <u>5437</u> 2
Date Shot From To	Liners Used			Perf. <u>5438-41</u> 6
With				Perf. bottom <u>5444</u> 2
Open Flow /10ths Water in Inch	Attach copy of cementing record.			
/10ths Merc. in Inch	CASING CEMENTED <u>See reverse side</u> SIZE No. Ft. Date			
Volume Cu. Ft.	Amount of cement used (bags)			
Rock Pressure lbs. hrs.	Name of Service Co.			
Oil bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT FEET INCHES			
WELL ACIDIZED (DETAILS)	FEET INCHES FEET INCHES			
WELL FRACTURED (DETAILS) <u>500 gals 15% HCl, 17000# 20/40, 456 bbls Jel H₂O - Newburg</u>	FEET INCHES FEET INCHES			
RESULT AFTER TREATMENT (Initial open Flow or bbls.)	<u>Gas and salt water</u>			
ROCK PRESSURE AFTER TREATMENT	HOURS			
Fresh Water Feet	Salt Water Feet			
Producing Sand	Depth			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	5			
Sand			5	20			
Sand		Hard	20	35			
Sand & Shale			35	195			
Sand			195	557			
Sand & Shale			557	643			
Sand			643	916			
Sand			916	1327			
Shale			1327	1350			
Shale & Sand			1350	1417			
Big Lime			1417	1641			
Injun			1641	1681			
Shale			1681	2080			
Coffee Shale			2080	2104			
Berea			2104	2108			
Shale			2108	4652			
Corniferous			4652	4746			
Oriskany			4746	4758			
Lime & Shale			4758	5024			
Dolomite			5024	5050			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime & Shale			5050	5100			
Dolomite			5100	5430			
Newburg			5430	5451			
Lime & Shale		McKenzie	5451	5495			
Logs Birdwell							
Gamma - Density							
Gamma - Induction							
					5430	5430	
					919	4746	
					<u>4511</u>	<u>684</u>	
			13" 9-7	30 sacks	Dowell		
			8 5/8" 9-16	400 sacks	Dowell		
			4 1/2" 9-25	160 sacks	Dowell		

Date Nov 30, 1968

APPROVED Chief Drilling Owner

By W. J. Wiser (Title)