

PlotLog	Card CSD Mflm		
0 1	ż ś		11itude 39° 17½' (15') 39° 20' \$ 14250 W 3900
- 1			, 4
- 2			, 'A
	Borg-Warne. 190.79 Ac. Ti	r Corp. C	ongitude 8
Borg-Warner Corp. 49.01Ac.Tract 0.8k.579,Pg.610	D.Bk. 579, Pg	60.5 V	Borg-Warner Corp. 89.75 Ac. Tract D.Bk. 387, Pg. 375
54.75	J.Rod B. & O. Rail, S68°53'E 191.74' N36°	0ad	Borg-Warner Corp. Conc.Mon No. 1, El. 644.337 Cor: NO+00 & W 0+00
40, 1.R. 90.8.7.	12775. 131.14 WELL NO. 2 N59°55'W 127.71' S31°47'W W. VA. SECONDAR		1. Rod Topo 15'
	 Borg-Warn		+
Fracture	Bo	orn-Warner Corp. (onc. Mon. 1 , El. 644.337
Redrill New Location Drill Deeper Abandonment	I, the undersigned, hereby and belief and shows all the	certify that this map is cor	rect to the best of my knowledge ragraph 6 of the rules and regula- of West Virginia.
Farm Borg-Warn	ant, Washington, W.Va.	DEPAR OIL AN	F WEST VIRGINIA TMENT OF MINES D GAS DIVISION HARLESTON
Well (Farm) No2 Elevation (Spirit Level)		15 FILE NO.	WOO-765 merly Woo-753
County. Wood	District Lubeck "Marshall LLS	Topographic Maps,	on of well on United States, scale 1 to 62,500, latitude being represented by border
File NoDate May 4, 1976	Drawing No	— Denotes one in original tracing.	arch spaces on border line of 47-107 MAR 25 19

Plot___ Log__ Card CSD_ Latitude 39 (15) 514250 W 3900 Borg-Warner Corp. 190.79 Ac. Tract Borg-Warner Corp. 49.01Ac.Tract Borg-Warner Corp. 89.75 Ac. Tract D.Bk. 579, Pg 605 D.Bk. 387, Pg. 375 D. Bk. 579, Pg. 610 Borg-Warner Corp. Conc.Mon No. 1, El. 644.337 Cor: NO+00 & W 0+00 .I.Rod Railroad W 0+00 N36°52'E 559.78 8 Mi to rkersburg WELL No. 2 1. Rod Topo 15 I.Rod. 1. Rod 531°47'W 728.87' VA SECONDARY ROUTE Borg-Warner Corp. Source of Elevation Borg-Warner Corp. Conc. Mon. 1, El. 644.337 Fracture.... Redrill.... I, the undersigned, hereby certify that this map is correct to the best of my knowledge New Location . and belief and shows all the information required by paragraph 6 of the rules and regula-Drill Deeper tions of the oil and gas section of the mining laws of West Virginia. Abandonment Minimum accuracy, one part in 200 Company BORG-WARNER CORP.

PO Bx 1868 Forkersburg. WY 76/01

Address Woodmar Plant, Washington, W.Va. STATE OF WEST VIRGINIA
DEPARTMENT OF MINES OIL AND GAS DIVISION **CHARLESTON** WELL LOCATION MAP 15 W00-765 FILE NO._ Formerly Woo-753 Wood District Lubeck + Denotes location of well on United States

Farm Borg-Warner Corp. Tract____Acres 190.79 Lease No. Well (Farm) No. 2 Serial No. Elevation (Spirit Level) 642.6 Parkersbug Quadrangle Little Hocking 71/2' Series County_ Surveyor's or

Surveyor's or

3 Engineer's Registration No.3 _Drawing No._ Date May 4, 1976 Scale 1"=200'

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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 2 5 197 47-107



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division WELL RECORD

NOV 3 . 1677

09. & G

Rotary_

Cable_ Quadrangle Little Hocking 7-1/2 Recycling Water Flood__ Storage_ Permit No. WOO-765 Disposal___ (Kind) Company Borg-Warner Corp. P.O. Box 1868, Parkersburg, W. Va. 2610 Tubing Used in Left Cement fill up Address____ in Well Cu. ft. (Sks.) Drilling Borg-Warner Corp. Acres 190.79 Farm___ Location (waters) Ohio River. Size Elev. 686.7 Well No._ 20-16 Lubeck Wood 100 sx District_ _ County_ Cond. 13-10" 11-3/4" 69 Circulated to surface 69 The surface of tract is owned in fee by___ Borg-Warner Corp. 9 5/8 550 sxSee above 1969 8 5/8 1969 Address___ Circulated to surface Borg-Warner Corp. Mineral rights are owned by_ See above 5 1/2 4158 4158 20 sx cement _____ Address___ Drilling Commenced 8-26-77 4.1/2 Drilling Completed 9-4-77 3 Initial open flow 200m cu. ft. bbls. Liners Used Final production 1,200 m cu. ft. per day _____bbls. hrs. before test 1650 RP. Well open _____ Well treatment details: Attach copy of cementing record. 1100 bbl water - 30,000 # 20/40 sand -Water Frac: 9-9-77; Halliburton: 500 gal Acid - 15% HcL Coal was encountered at ____None _ Inches Feet_ _ Feet __<u>1500'</u> Fresh water None Feet _ Salt Water. Depth 4165-4175

Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
0	10	
10	90	
90	110	
110	160	•
160	600	
600	648	
648	740	
740	790	
790	1000	•
1000	1 1 20	
1120	1390	
1390	1560	
1560	1878	
1878	1930	
1930	4080	
4080	4165	
4165	4175	
4175	4186	Total Depth
		∮
	0 10 90 110 160 600 648 740 790 1000 1120 1390 1560 1878 1930 4080 4165	0 10 10 90 90 110 110 160 160 600 600 648 648 740 740 790 790 1000 1000 1120 1120 1390 1390 1560 1560 1878 1878 1930 4080 4080 4080 4165 4165 4175

(over)

Producing Sand Oriskany

^{*} Indicates Electric Log tops in the remarks section.







OIL & GAS THEFON DEFT. OF MERKES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

•			
TO THE DEPARTMENT OF MINES,			
Charleston, W. Va.	DATE March 3 1977		
Surface Owner Borg Warner Corporation	Company Born Warner Corporation		
Address P.O. Box 1868 Parkersburg WV 26101	Address P.O.Box1868.Parkersburg.WV 2610		
Mineral Owner Same			
Address			
Coal Owner None	Well No. Two Elevation 642.6		
Address	District Lubeck County Wood		
Coal Operator	Quadrangle Little Hocking 7-1/2		
Address	_		
THIS PERMIT MUST BE POSTED AT THE WELL SITE			
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved			
for drilling. This permit shall expire if			
operations have not commenced by 7-8-77.			
	\sim \sim \sim \sim		
Deputy Director - Oil & Gas Division INSPECTOR	TO BE NOTIFIED Vaul Doodnight		
GENTLEMEN: PH: 477-2	3455 ADDRESS Smithwill Wa.		
•	_		
	e above named farm or tract of land for oil and gas, having fee lated		
	ion and recorded on the day of		
19, in County, Book			
	REDRILLFRACTURE OR STIMULATE		
OIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.		
The enclosed plat was prepared by a registered engineer of have been notified as of the above date.	or licensed land surveyor and all coal owners and/or operators		
The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or fi	notified that any objection they wish to make, or are required iled with the Department of Mines within ten (10) days. *		
Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Dep			
	Very truly y Borg Warner Corporation		
West Virginia Geological and Economic Survey	(Sign Name) (Sthut Of: Ganaty Well Operator		
P. O. Box 879	P. O. Box 1868		
Morgantown, W. Va. 26505 Addres			
of Well Oper	ator Parkersburg		
	City or Town		
	W. Ve.		
	State		
c)			

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved

Was - 765 PERMIT NUMBER

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL		DEEPEN	DEEPEN FRACTURE-STIMULATE	
DRILLING CONTRACTOR: (If		RESPONSIBLE AGEN		
NAME				
ADDRESS			lox 1868, Parkersburg, WV 261	
TELEPHONE		_ TELEPHONE 485	1771	
ESTIMATED DEPTH OF COMPI	LETED WELL: 4200	ROTARY X	CABLE TOOLS	
PROPOSED GEOLOGICAL FOR	MATION: Oriskany			
YPE OF WELL: OIL_	GAS	COMB. X STORA	GE DISPOSAL	
	RECYC	LING WATER F	CLOODOTHER	
TENTATIVE CASING PROGRAM	M:			
· · · · · · · · · · · · · · · · · · ·				
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.	
0 - 16				
3 - 10	150	150	Surface	
- 5/8				
- 5/8	1884	1884	500' to 1384'	
1/2	4114	4114	300' to 3814'	
1/2				
			Perf. Top	
			Perf. Bottom	
iners			Perf. Top	
			Perf. Bottom	
	OF OG - 1, SHOWING ORI TO 1929, A PERMANENT		AND PERFORMANCE BOND. ON ID THE ORIGINAL WELL RECORD	
O FRACTURE - STIMULATE:				
OIL AND/OR GAS WELL O	DRIGINALLY DRILLED BEF F AND ORIGINAL WELL R		(5) COPIES OG - 1, PERFORMANCE	
	ORIGINALLY DRILLED ON UMBER, AND PERFORMAN		1929, FIVE COPIES OG - 1, SHOW-	
Required forms must be file four (24) hours in advance.		f completion for bond relea	ase. Inspector to be notified twenty-	
	•	¥ .		
	v			
The following waiver must nereof.	be completed by the coal of	operator if the permit is to	be issued within ten days of receipt	
		= ::	vner or Operator of the coal under	
	ned and place on our mine			
			d well being drilled at this location,	
providing operator has Code.	complied with all rules and n	regulations in Articles 4, 5, a	and 7, Chapter 22 of the West Virginia	
			For Coal Company	

Official Title