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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DECEIVED DEC - 1978

Oil and Gas Division

Casing and

Used in

WELL RECORD 23

Quadrangle Harrisville, WV 7½'
Permit No. RIT-4138 (47 - 085 - 4138)

Company Glenn L. Haught & Sons

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, TEC;	OIL EF	& C	SAS OI	اتا ¶ =	vis Mil	NE NE	S

Rotary_X_	Oil
Cable	Gas_X
Recycling_	Comb
Water Floor	d Storage
Disposal	(Kind)
Left in Well	Cement fill up Cu. ft. (Sks.)

Address Smithville, W. Va. 26178 Drilling Tubing Farm Aaron Friedly _____Acres_ Dog Run Location (waters) __ Size __ Elev._ 868 ¹ Well No. <u>H-660</u> 20-16 District Murphy __County_Ritchie Cond. <u>13-1</u>0" The surface of tract is owned in fee by Charles Chaddock 9 5/8 AddressRt.1, Harrisville, W. Va. 26362 8 5/8 2051 205 1 75 Sacks Mineral rights are owned by Leo Trader et al _____Address Rt.1, Harrisville, WV 5 1/2 Drilling Commenced 10-11-78 4 1/2 1953° 105 Sacks Drilling Completed 10-15-78 Initial open flow Show cu. ft. _ Final production 372,00Qu. ft. per day ____ Liners Used Well open 8 hrs. before test 630 RP. Well treatment details: Attach copy of cementing record.

Hydrafraced by Halliburton - 10-20-78 -- 1,000 Gal. Acid -- 940 Bbls.

Water -- 37000 Lbs. 20-40 Mesh Sand -- 14,000 Lbs. 80-100 Mesh Sand.

 Coal was encountered at
 None
 Feet
 Inches

 Fresh water
 Feet
 Salt Water
 Feet

 Producing Sand
 Big Injun
 Depth
 Perforations-12-- 1875-1928

 9-- 1842-1850

			7			<u> </u>
Formation	Color Har	d or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Blue	Soft	230	235		OPPOST (A PROTECTION OF THE PR
Sand	Gray	Med.	235	238	III iii iii ii ii ii ii ii ii ii ii ii i	
Shale	Gray	Soft	238	260		
Sand	Gray	Med.	260	269		
Shale	Gray	Soft	269	272	· ·	
Sand	White	Med.	272	282	-	
Shale	Gray	Soft	282	346	Degree Commission	
Sand	Gray	Med	346	369	After company	
Shale	Blue	Soft	369	407	nov entropy	
Sand & Sha		Med.	407	450		
Shale	Gray	Soft	450	465	way III was a san a	•
Sand	•	Med.Hd.		495		
Shale	Gray	Soft	495	505		
Sand	Gray	Med.Sft		510		
Red Rock	Red	Soft	510	545		
Shale	Gray	Soft	545	564		
Sand	Gray	Med.Hd.		600		
Shale	Gray	Soft	600	628		
Red Rock	Red	Soft	628	655		
Sand	Gray	Hard	655	660		
Shale	Gray	Soft	660	670		
Red Rock	Red	Soft	670	750		
		CONTROL OF THE REAL PROPERTY AND THE PROPERTY OF THE PROPERTY	· · · · · · · · · · · · · · · · · · ·	O MANAGEMENT OF THE PROCESS OF THE P		

(over)

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

Formation Color Hard or Soft	Top Feet 25	Bottom Feet	Oil. Gas or Water * Remarks
Shale Gray Soft Sand/ShaleWhite Soft Shale Gray Soft Sand Gray Soft RedRock Red Soft Shale Gray Soft Sand Gray Med. Shale Blue Soft Sand Gray Med. Shale Gray Soft Sand Dk.Gry. Hard Shale Gray Soft Shale Gray Med. Lime Gray Hard Shale Gray Soft Lime Black Hard Pencil Cave Black Lime Gry./Wh. Hard Sand White Hard Shale Dk.Gry. Soft	750 800 818 850 862 915 1020 1050 1075 1105 1173 1180 1218 1237 1295 1306 1418 1514 1600 1610 1675 1692 1718 1736 1775 1779 1869 1931	800 818 850 862 915 1020 1050 1075 1105 1173 1180 1218 1237 1295 1306 1355 1400 1418 1514 1600 1675 1692 1718 1775 1779 1869 1931 2000 T.D	Gas & Oil @ 1630-1635
	T-A-A-A-RII III III COOLOAN		

Date November 13, 1978

APPROVED GLENN L. HAUGHT & SONS ()wne

(Title) Partner



STATE OF WEST VIRGINIA DEPARTMENT OF MINES



Oil and Gas Division

CL & GAS TIVISION EL T. OF WINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE October 5, 1978
Surface Owner Charles Chaddock	Company Glenn L. Haught & Sons
Address Rt.1, Harrisville, W. Va. 263	
Mineral Owner Leo Trader et als	Farm Aaron Friedly Acres 93
Address Rt.1, Harrisville, W. Va. 263	
Coal Owner	- 66-
Address	Ditabia
Coal Operator None	
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 <u>drilling</u> . This permit shall expire if	INSPECTOR TO BE NOTIFIED <u>Kenneth Paul Goodnight</u>
operations have not commenced by 2-6-79	 -
operations have not commenced by 2-0-79.	ADDRESS Smithville, W. Va. 26178
Deputy Director - Oil & Gas Division	PHONE 477-3660
GENTLEMEN:	
	the above named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or les	ase dated 114 by 1911 by 1911 May
made to wallell R. Had	ght and recorded on the 10th day of May Page 166
	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRII	LLED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engine have been notified as of the above date.	eer or licensed land surveyor and all coal owners and/or operators
	eby notified that any objection they wish to make, or are required or filed with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were maile or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the	d by registered mail, or delivered to the above named coal operators day before, or on the Bepartment of Mines at Charleston, West Virginia.
	Very truly yours,
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) GLENN L. HAUGHT & SONS
WEST VIRGINIA GEOLOGICAL AND	BY: Naver N. Haught
	ddress Street
P. O. BOX 879 Well	Operator Smithville, W. Va. 26178
MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	Sity or Town
	State

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of 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 and the well operator authorized to proceed.

MANET ESTO

RIT-4138

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

PROPOSED WORK ORDER	TO XX DRILL	DEEPEN FRACTURE-STIMULATE			
DRILLING CONTRACTOR:	(If Known)	RESPONSIBLE AGENT:			
	ht & Sons	ADDRESS Smithville, W. Va. 26178			
	W. Va. 26178				
TELEPHONE 304-477-3			7-3333		
ESTIMATED DEPTH OF COM	MPLETED WELL: 2000	ROTARY X	CABLE TOOLS		
	ORMATION: Big Injun				
TYPE OF WELL: OI	L GAS XX CC				
	RECYCLIN	G WATER FLOO	ODOTHER		
mesumamitus cacinic opoce) A B.C.				
TENTATIVE CASING PROGR	LAW.	-			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBICLET.		
20 - 16	ang kanahan pangsang kanpung dang diangking tang mangking ang kanpung tang kanpung tang dan kanakan di sementan bandan dan di matahan menemberah dan dan dan menemberah dan dan dan dan dan menemberah dan		obe VV		
13 - 10					
9 - 5/8					
8 - 5/8	200 1	200'	75 Sacks		
7					
5 ½ 4 ½	and makes the part of the part	2000 1	100 Sacks		
3		NAME OF THE PROPERTY OF THE PR	Perf. Top		
2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perf. Bottom		
Liners			Perf. Top Perf. Bottom		
			Terr. porton		
ADDOMINAMO DEPON WAR	er depths 50 feet		D.C.D.C.		
	HS None				
	THE AREA? NO				
		D 1 11101(1.	The state of the s		
TO DRILL:					
OF PLAT.	IES OF OG - 1, \$100.00 PERMI	r fee, performance bo	OND AND PERMANENT COPY		
	DIII.				
TO DRILL DEEPER OR RED	RILL: ES OF OG - 1, SHOWING ORIGI	או מסטאווי אווואססס אווו	O DEPENDMANCE BOND ON		
	OR TO 1929, A PERMANENT CO				
TO FRACTURE - STIMULAT	E:				
	L ORIGINALLY DRILLED BEFOR LAT AND ORIGINAL WELL REC		COPIES OG - 1, PERFORMANÇE		
OIL AND/OR GAS WEL	L ORIGINALLY DRILLED ON AN NUMBER, AND PERFORMANCE	ND/OR AFTER JUNE 5, 1929	9, FIVE COPIES OG - 1, SHOW-		
			Townsels 4 1 cent 1 cent		
Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.					
The following waiver methereof.	ust be completed by the coal ope	rator if the permit is to be i	ssued within ten days of receipt		
	Agent for				
	Coal Company	• •			
	has complied with all rules and reg				
		Fo	от Coal Company		
			Official Title		