

# IV-35 RECEIVED (Rev 8-81)

JUL 22,1982

AND GAS DIVISION DEPARTMENT OF MINES



#### State of Mest Nieginia

Bepartment of Mines Wil und Gas Division

Date July 20. 19	82
Operator's	-
Well No. <u>H-1311</u>	
Farm Cunningham	
API No. 47 - 073	-1414

WELL OPERATOR'S REPORT

_			<b>U</b> 1			
DRILLING	EDY ALL ID LYA	AND IOD	STIMULATING,			
Dictionity,	LIMITING	MWU/UK	STIMULATING.	OR	PHYSTCAT	CHANCE

···				
WELL TYPE: OilX / GasX / Liquid Injection (If "Gas," Production X / Undergro	n/Wast	te Disposa ge/ Dee	1/ · p/ Sha	illow/)
LOCATION: Elevation: 1108 Watershed Le	ft fork	of Frenc	h Creek	
District: McKim County Plea	sants	Quadrangl	e Schult	
		-	- Teams	MI NI
COMPANY Notional Control				
COMPANY National Operating. Inc. ADDRESS Giddings, TX 78942	<del></del>	7		·
DESIGNATED AGENT John R. Cox	Casing	Used in	Left	Cement fill up
ADDRESS P. O. Box 363 St. Manual Int. Oct.	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Box 362, St. Marys, WV 2617	i i			
SURFACE OWNER G. W. Kearse	20-16 Cond.			
ADDRESS St. Marys, WV 26170	13-10"	401	401	
MINERAL RIGHTS OWNER T. E. Cunningham Heir	9 5/8	40	40.	-
ADDRESS Vienna, WV	8 5/8	13001	17001	207
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7	1,000	1300'	297 sks.
Lowther ADDRESS Middlebourne, WV	5 1/2			
PERMIT ISSUED 1-11-82				
DRILLING COMMENCED 5-19-82	4 1/2		5534	650 sks.
DRILLING COMPLETED 5-24-82				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	2	·		
REWORKING. VERBAL PERMISSION OBTAINED	Liners used		·	
SPOLOGICAL TARGET FORMATION Black Shale		Dept	h 5590	feet
Depth of completed well 5560 feet R	otary x	/ Cable	Tools	
Water strata depth: Fresh 80 feet;	Salt N/A	feet		
Coal seam depths: N/A	Is coal h	eing mine	d in the	
OPEN ET OU DAMA			a mi uje	area:No
WINTELL				
Producing formation Black Shale Gas: Initial open flore	Pay	zone dept	h 5186-54	174 feet
mct/d	Oil: Init	ial open :	flow o	Bh1 /a
Final open flow 30 Mcf/d	Fina	ul open flo	w1	Bbl/d
Time of open flow between initi	al and fir	al tests_	48 hou	rs
Static rock pressure 980 psig (surface	measureme	nt) after	24 hour	s shut in
(If applicable due to multiple completion-	<b>-</b> )			
Second producing formation N/A	Pay	zone depti	1	feet
Gas: Initial open flow Mcf/d	Oil: Init	ial open i	Flow	Ph1 /d
Mcf/d (	Oil: Fina	1 open flo	<b>7.</b>	51.7.47
Time of open flow between initia	al and fin	al tests	hou	rs.
Time of open flow between initial Static rock pressurepsig(surface)	neasuremen	t) after_	hour	AUG 2 199

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, DIC.

16 - .49 shots

51861 - 54741

500 Gal. 15% Acid

567,000 SCF  $N_2$  unsed to stimulate

WELL LOG

`			
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all froand salt water, coal, oil and
Red Rock Slate Sand Shale Red Rock Shale Sand Red Rock Sand & Shale Sand Red Rock Sand Sand & Shale Sand Shale Red Rock Shale Red Rock Shale Sand Shale Red Rock Shale Sand Shale Red Rock Shale Sand Shale Red Rock Sand Shale	50 61 75 87 101 130 145 150 350 555 775 855 1050 1259 1360 1375 1400 1430 1590 1704 1797 1870 1999 2011 2312	61 75 87 101 130 145 1250 350 555 640 775 850 1050 1375 1360 1375 1420 1430 1480 1590 1600 1743 1850 1600 1743 1850 1743 1850 1743 1850 1850 1850 1850 1850 1850 1850 1850	

(Continued)

(Attach separate sheets as necessary)

National Operating. Inc.
Well Operator

Designated Agent

Date: 7-22-2

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geologic' record of all formations, including only, encountered the drilling of well."

FORMATION		TOP FEET	BOTTOM FEET	REMARKS
Berea		2350	2362	
Gantz		2490	2506	
Fifty Foot		2562	2571	
Thirty Foot		2650	2670	
Gordon	•	2762	2782	
Fourth Sand		2880	2888	
Fifth Sand		2942	2960	
Byard		3020	3050	
Elizabeth		3180	3200	
Warren First		3284	3314	
Speechley		3600	3620	
Balltown		3674	3704	
Schfield		3850	3880	
Bradford		4008	4040	
Kane		4052	4070	
Riley		4150	4170	
Elk		4244	4255	
Benson		4890	4910	•
Black Shale	Rhinestreet to	4910	5560	T.D Gas
	Marcella	_		T.D Gas



C1 - 18-2

+(Obverse)



Form T. E. Cunninghom

AFI 547 - 073 - 1414

Date December 31, 1981

### STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

## OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil X / Cas X /	
(If "Gas", Production X / Unde	erground storage / Deep / Shallow X /
LOCATION: Elevation: 1108' Watersho County:	ed: <u>Left Fork-French Creek</u> Pleasants QuadrangleSchultz, WV
WELL OPERATOR Haught, Inc.  Address Rt. 3 Box 14  Smithville, WV 26178	DESIGNATED AGENT Warren R. Haught Address Smithville, WV 26178
OIL AND GAS ROYALTY OWNER T. E. Cunningham Heirs eta Address c/oA.B.Cunningham, 913-19th St. Vienna, WV 26105 Acreage 24.47	1£OAL OPERATOR None Address
SURFACE OWNER G. W. Kearse	COAL OWNER(S) WITH DECLARATION ON RECORD: NAME Address
Address St. Marys, WV 26170  Acreage 24.47	NAME
FIELD SALE (IF MADE) TO:	Address
Address P. O. Noc 1273  Charleston, WV 25305	COAL LESSEE WITH DECLARATION ON RECORD:  NAME None
OIL AND GAS INSPECTOR TO BE NOTIFIED:	Address RECEIVED
NAME Phillip L. Tracy Address Rt. 23	JAN 1 1 1982
Alma, WV 26320 Telephone 758-4573	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
above location under a deed / leases X	led to operate for oil or gas purposes at the _/ other contract/ dated 12/22/80-1/28/8 Eddy-T.E.Cunningham HrsG.W.Kearse 2/18/8 been recorded:)
Recorded on $\frac{2/6}{81-2/17/81-3/17-81}$ the of	
PROPOSED WORK: Drill X / Drill Deeper Plug off old formation	Deed Book at page 27,8328 A permit is  / Redrill / Fracture or stimulate / Perforate new formation / well (specify)
planned as shown on the The above named coal operator, coal owner(s objection they wish to make or are required Department of Mines within fifteen (15) day Copies of this Permit Application and the emailed by registered mail or delivered by h	e work order on the reverse side hereof.  ), and coal lessee are hereby notified that any to make by Code \$22-4-3 must be filed with the safter receipt of this Application by the Dept notion of the and reclamation plan have been and to the above named coal operator, coal own-y of the mailing or delivery of this Application
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Haught, Inc. Well Operator
CHARLESTON, WV 25311 It	y: Warren P. Haught s: President
Telephone - 304/348-3092	

(Reverse)

(Revised 3-81)

#### PROPOSED WORK CRDER

### THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRAC,TO	OR (IF H	(NOMN)	Ha	ught,	Inc.			
		Ac	idress	Rt	. 3	Box 14			
	•		-	Sm	ithvi	lle, WV	26178		
GEOLOGICAL T Estimated Approxima Approxima Is coal b	depth ate was ate coa	n of cor ter stra al seam	mpleted water dept depths:	well_ hs: No	5400 Fresh, one	fee 	t. Rotai feet; s	y X / Cabl	e tools_//feet.
CASING AND T			CIFICATI					CEMENT FILL-	PACKER <del>S</del>
TUBING TYPE		Grade	Weight  per ft				Left in Well	UP OR SACKS Cubic ft.	e des
Conductor	d - A		0.0 "			1100	11.00		Kinds
Fresh water Coal	<u>8 5/8</u> I	K-55	20#	X	<del> </del>	1100	1100	Cement to	Surface  Sizes
Intermed.	l 1	7 55	10.5						[DAb
Production   Tubing	<u>  4ই</u> 	J-55	10.5	X	<del> </del>		5400	525 Sacks or as need	
Liners								rule 15.01	Perforations:
				ļ	ļ			1	Top Bottom
				<del> </del>	<del> </del>	<u>'</u>		1	
for drift operations	-12b a red by -8a fr well. arate fract t and illing	nd Regu Code 8 om the Form IV uring o is note	lation 2 22-4-12a owner of -2 shall	a, (1) any not ating h on	iv) unid (v) a water  be record  the EF  crowd  xpire if	less prev if applic well or quired fo	iously parable, the dwelling was fracture	consent requivithin 200 fe ing or stimul	ne well, the fee wired by Code set of the pro-
The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code \$22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:  \[ \begin{align*} \be									
Date:		, 1	9	:		•		<del></del>	
•						By:			