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IV-35 (Rev 8-81)

APR 21 1982

OIL AND GAS DIVISION State of Mest Hirginia

Bepartment of Mines Wil and Cas Bivision

Date	April 14,	1982					
Operator's							
Well No. H-1310							
Farm_	Mary Eddy						
ADT No	/2 - 073	- 4/.43					

WELL OPERATOR'S REPORT

OF

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

DRILLING, FRACTURING AND/OR STIM	MULATING, C	OR PHYSICAL	L CHANGE		
WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Undergro				llow_	/)
LOCATION: Elevation: 1149 Watershed R	ight Forl	c - Frenc	h Creek		
District: Jefferson County Pl					
		,			
COMPANY National Operating, Inc. Haygh	t the				
ADDRESS. Giddings, TX Sm. thuille, www	. 1	T		Ceme	nt]
DESIGNATED AGENT Steven Tice	Caşırıg	Used in		fill	up
ADDRESS Box 341, St. Marys, WV	Tubing	Drilling	in Well	Cu.	ft.
SURFACE OWNER B. & C. Eddy	Size 20-16				
ADDRESS St. Marys. WV 26170	Cond.			<u> </u>	
MINERAL RIGHTS OWNER Blaine & Mary Eddy	. 13-10"			ļ	
ADDRESS Rt. 2, St. Marys, WV	9 5/8			ļ	
OIL AND GAS INSPECTOR FOR THIS WORK Phil	8 5/8	13001	13001	346	sks.
Tracy ADDRESS Alma, WV	7				
PERMIT ISSUED January 11, 1982	5 1/2				
DRILLING COMMENCED March 21, 1982	4 1/2		5758 '	655	sks.
	3	ļ		ļ ·	
DRILLING COMPLETED <u>March 27, 1982</u> IF APPLICABLE: PLUGGING OF DRY HOLE ON	2				
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used				
	<u> </u>			<u> </u>	
GEOLOGICAL TARGET FORMATION Black Shale			_h5800		_feet
Depth of completed well 5795 feet	Rotary X	/ Cable	e Tools_		
Water strata depth: Fresh 85 feet;		I/A feet		•	
Coal seam depths: N/A	_ Is coal	being mine	ed in the	area	? <u>No</u>
OPEN FLOW DATA					
Producing formation Black Shale	MARCPay	zone dept	h <u>566</u>	<u> </u>	feet
Gas: Initial open flow 250 Mcf/d	•	tial open			- Bbl/đ
Final open flow 60 Mcf/d)		al open fl			Bbl/d
Time of open flow between init					
Static rock pressure 1450 psig(surface					ut in
(If applicable due to multiple completion					·
Second producing formation N/A		zone dept	<u>-</u> h		feet
Gas: Initial open flow Mcf/d					Bbl/d
Final open flow Mcf/d	•				Bbl/d
Time of open flow between ini					•
Static rock pressurepsig(surface		_			ut in

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

20 - .39 holes 5365' - 5669' Stimulation - 688,000 SCF N₂

i Per

WELL LOC

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
	<u> </u>		and salt water, coal, oil and gas
Red Rock	50	61	•
Slate	61	75	
Sand	75	87	Fresh H ₂ 0
Shale	87	101	2
Red Rock	101	111	
Shale	111	130	
Sand	130	145	
Red Rock	145	172	
Sand & Shale	172	250	•
Sand	250	350	
Sand & Shale	350	430	,
Sand	430	555	,
Red Rock	555	. 640	·
Sand	640	775	
Sand & Shale	775	850	
Sand	850	985	
Sand	985	1050	
Sand & Shale	1050	1170	
Sand	1170	1259	
Sand & Shale	1259	1321	
Sand	1321	1330	
Shale	13 3 0	1360	
Red Rock	1360	1375	
Shale	1375	1380	
Sand	1380	1400	
Shale	1400	1420	
Red Rock	1420	1430	
Sand & Shale	1430	1480	
Shale	1480	1500	
First Salt Sand	1512	1591	
Second Salt Sand	1601	1702	
Third Salt Sand	1714	1760	
Maxon	1778	1832	
Big Lime	1907	1960	•
Keener	1984	2008	
Big Injun	2020	2117	
Squaw	2130	2154	
Weir	2282	2312	15.

(Attach separate sheets as necessary)

(Continued)

National Operating, Inc.
Well Operator

atex 4-73/-

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed ge logical record of all formations, including

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Berea	2364	2374	
Gantz	2434	2436	
Fifty Foot	2498	2506	
Thirty Foot	2612	2630	
Gordon	2716	2750	
Fourth Sand	2776	2794	
Fifth Sand	2892	2910	
Byard	3002	3 018	
Elizabeth	3185	3213	
Warren First	3276	3290	
Warren Second	3400	3428	
Tiona	3470	3494	
Speechley	3621	3646	
Balltown	3726	3760	
Scheffield	3869	3900	
Bradford	3995	4014	
Kane	4052	4064	
Riley	4139	4196	
Elk	4380	4390	
Benson	5016	5058	
Black Shale	53 20	5796 T.D.	Gas after stimula

 3442 EXPL FT

4847 Subsea T.D. Telephone - 304/348-3092



Farm Mary Eddy

API #47 - 073 - 1413

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 / Gas X /	
(If "Gas", Production	on X / Underground storage / Deep / Shallow X /
	Watershed: Right Fork-French Creek County: Pleasants Quadrangle: Schultz, WV
WELL OPERATOR Haught, Inc. Address Rt. 3 Box 14	Address Smithville, WV 26178
Smithville, WV 261 OIL AND GAS ROYALTY OWNER Blain & Mary Ed Address Rt. 2 Box 88 St. Marys, WV 26179	ddy COAL OPERATOR None Address
Acreage 62.5	COAL OWNER(S) WITH DECLARATION ON RECORD:
SURFACE OWNER B. & C. Eddy Address St. Marys, WV 2617	NAME
Acreage 62.5	NAMEAddress
FIELD SALE (IF MADE) TO:	
NAME Columbia Gas Transmiss Address P. O. Box 1273 Charleston, WV 253	COAL LESSEE WITH DECLARATION ON RECORD: NAME None
OIL AND GAS INSPECTOR TO BE NOT	
NAME Phillip L. Tracy	
Address Rt. 23 Alma, WV 26320	JAN 1 1982
Telephone 758-4573	OIL AND GAS DIVISION WY DEPARTMENT OF MINES
above location under a deed to the undersigned well operator (If said deed, lease, or other Recorded on Feb. 6 , 19 Pleasants County, West Verquested as follows: PROPOSED WORK: Drill X / Plug off old Other physical	tor is entitled to operate for oil or gas purposes at the / lease x / other contract / dated <u>D'ec. 221980</u> , or from <u>Blaine Eddy et ux & Mary Eddy</u> contract has been recorded:) 8], in the office of the Clerk of County Commission of 161 //irginia, in <u>Deed</u> Book/at page <u>221</u> . A permit is Drill Deeper / Redrill / Fracture or stimulate / d formation / Perforate new formation / cal change in well (specify)
The above named coal operator, objection they wish to make or Department of Mines within fift Copies of this Permit Applicationalled by registered mail or deer(s), and coal lessees on or to the Department of Mines at Company of the Department of Mines at Compa	coal owner(s), and coal lessee are hereby notified that any are required to make by Code \$22-4-3 must be filed with the teen (15) days after receipt of this Application by the Dept ion and the enclosed plat and reclamation plan have been elivered by hand to the above named coal operator, coal ownerfore the day of the mailing or delivery of this Application
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS	Haught, Inc. Well Operator
CONSERVATION COMMISSION	By: Warren V. Haught
1613 WASHINGTON ST., E. CHARLESTON, WV 25311	lis: President

(Reverse)

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

AC	TUAL II	NFORMAT	ION MUST	BE S	UBMITT	ED ON FO	RM 1V-35 ι	JPON COMPLETI	ON
DRILLING CO	NTRACTO	OR (IF	KNOMN)	Ha	ught,	Inc.			•
•		А	ddress	Rt	. 3	Box 14			
				Sm	ithvi	lle, WV	26178		
Approxim Approxim	d depti ate wa ate co	n of co terstr al seam	mpleted ata dept depths:	well_ hs:	54 Fresh,	00 fee	et. Rotai feet;	ry X / Cabl	
CASING AND	TUBING								
CASING OR TUBING TYPE		SPE	CIFICATI Weight					CEMENT FILL- UP OR SACKS	PACKERS
		Grade						Cubic ft.	Ki nds
Conductor Fresh water	8 5/8	K-55	20#	X	+	1100	1100	Cement to	
Coal	1								Sizes
Intermed. Production	14=	J-55	10.5	X	-		5100	525 Sacks	Nenthe set
Tubing	142	0-22	1 10.5	+^	-		5400	or as need	
Liners									Perforations:
				<u> </u>	1			!	Top Bottom
-	 	ļ <u></u>	 	<u> </u>	 	<u> </u>	<u> </u>	<u>i</u>	
required by the sought of the W. for driver operations	tred by 1-8a fr 1 well. barate c fract nt and MIT MUS Va. Cod illing have not	Code & com the Form IV curing of is note I BE FOS in accordance in acc	22-4-120 cowner of 2-2 shall or stimula ed as suc TED AT TH decrease with scientis born this pornit of d by 9-1	a, and f any l not lating ch on E WELL Chartel by open	d (v) : water be rec g is to the Fo	if applic well or quired fo o be part	cable, the dwelling of fracture to for the w	consent requ within 200 fe ing or stimul	ne well, the fee wired by Code et of the pro- Lating a well a permit is merewith.
The jor constant is to the undersing has a signed has	following all less on the is greed constant well monopole or has	ing wain see who seed we cal ope ined th location compli	per must of has recithin find find find find find find find fi	corden fteen / ow sed w well l	d a de (15) WAL when a leading ocation ocatio	claration days of : VER lesse cation. be ded to be	n under Co receipt th e/ of If a mine en added t done at th	de \$22-4-20, ereof: the coal under map exists to the mine mais location,	any coal owner if the permit er this well which covers the ap. The underprovided the irginia Code and
					1	Rv:			