

Division : Permitting Oil and Gas Section

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: SAVORY, TOM

Operator Well No.: HAMMOND #1

LOCATION: Elevation: 1303.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE

Latitude: 11790 Feet South of 39 Deg. 22Min. 30 Sec. Longitude 10900 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP

P. O. BOX 99

ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD Permit Issued: 07/02/90 Well work Commenced: Well work Completed: July 28,1990 Verbal Plugging Permission granted on:
Rotary XXX Cable Rig
Total Depth (feet) \$545 Fresh water depths (ft) \_\_\_SS

Salt water depths (ft) 402-1438 1891-1893 Is coal being mined in area (Y/N)? Coal Depths (ft):

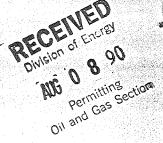
	Casing	Used in	Left	Cement
	& Tubing	Drilling	in Well	Fill Up Cu. Ft.
	Size			to
	8%	1412	1412	TO SORFACE 3205XS
on Comments Comments	4/2		5400	
oza delejensa germeni dili				
sold Create Colonia Co.				
Company description of the			.	

OPEN FLOW DATA

Producing formation Rewsow Sandstowe Pay zone depth (ft) 5356 5259 Gas: Initial open flow \_\_\_\_\_\_Bbl/c Gas: Initial open flow \_ \_ MCF/d Oil: Initial open flow \_ Final open flow \_ \_ MCF/d Final open flow \_ \_ Time of open flow between initial and final tests \_ \_ \_ Bbl/c Static rock Pressure 1425 psig (surface pressure) after 72 Hours Hours Second producing formation Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/c
Final open flow MCF/d Final open flow Bbl/d Pay zone depth (ft)\_\_ Time of open flow between initial and final tests Static rock Pressure\_\_\_\_\_psig (surface pressure) after \_\_\_

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	DRILLING APPALACHIAN CORP.
	By: 7
•	Date: 8/1/90



## GEOLOGICAL WELL RECORD DATA

WELL NAME: H. L. HAMMOND #1

PERMIT NUMBER: 47-017-3833

	TOP	BOTTOM	
SOIL	0	25	
BROKEN SAND	25	275	
SANDS AND SHALES	275	1085	
LITTLE DUNKARD	1238	1260	
BIG DUNKARD	1402	1438	SALT WATER
LST SALT SAND	1821	1893	SALT WATER
2ND SALT SAND	1917	2024	1. 10. 定期的基件
3RD SALT SAND	2044	2096	
MAXON .	2154	2178	
BIG LIME	2213	2310	
BIG INJUN	2320	2482	GAS & DIL
WEIR	2603	2684	
GANTZ SAND	2807	2826	
GORDON SAND '	3030	3064	GAS & DIL
WARREN	3698	3728	
RILEY	4894	4924	
BENSON	5356	5359	GAS
TOTAL DEPTH	5545		

## WELL TREATMENT SCHEDULE

Benson Sand

5356 - 5359 Perforated with 15 holes Formation Breakdown 3700 PSI

Hydraulic stimulation with Nitrogen Assist Average Treating rate 19 barrels per minute 520 barrels of gel treated water 300 sacks of 20/40 sand 50 sacks of 80/100 sand 100,000 scf of Nitrogen

Average Treating Pressure

2221 PSI

35Ro

1/2-017- 3833 essued 7/2/90

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STATE OF WEST VIRGINIA CONCO 7/2/32

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

			METT M		APPLICATIO	<u> </u>	
1)	Well Op	erator:_	DRILLIN	G APPALACHIA	N CORPORATION	14425 18	670
2)							evation: 1303'
4)				or Ga			
		(b)	If Gas:	Production	n_X/ Underg	round Storag	e /
5)	Propose			Dee	P	Shallo	w <u>x</u> /
6)				n(s):B			
				5500±	The same of the sa	2 - 21	
7)	Approxim	mate fres	h water s	strata depi	ths: <i>0 /</i>	, 201	
8)	Approxim	mate salt	water de	epths:	1226'	132	7/
9)	Approxim	mate coal	seam der	oths:	BK.	NONE Rex	erted
10)	Does lar	nd contai	n coal se	eams tribut	ary to act	ive mine? Ye	es / No X
11)					stimulate ne		
12)							
			CASIN	IG AND TUBI	NG PROGRAM		
TYPE		S	PECIFICAT	IONS	FOOTAGE II	NTERVALS	CEMENT
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Condi	actor	11-3/4	H-40	42#	30'	0 '	
Fresl	<u> Water</u>				The control of the co		
Coal						2/2	20 × da 11 3
<u> Inter</u>	mediate	8-5/8	J <b>-</b> 55	23#	1403'	G5 1403.	38CSR18-11 2.
Produ	ction	4-1/2	J-55	10½#	5403'	5403'	38CSR18-11.1
Cubir	ıg	11					30031110 11 1
iner	<u>s</u>					m	WIEDSD THE
<u> ACKE</u>	<u>:RS</u> : Kine	1		The second secon		MILE	J V BED,
	Siz						JUL UZ 1990
(						DIV	SION OF OIL & GAS
34		Fo	r Divisor	n of Oil ar	nd Gas Use	Only DEPA	RTMENT OF FUEL

Page 1 of <u>5</u>
Form WW2-A
(09/87)
File Copy



## DIVISION OF CIL & GAS 3) DEPARTMENT OF ENERGY

Date	:	June	12,	1990	 er.	
Opera	ator'	s we:	ll ni	umber		-
	H	AMMOND	#1			
API	Well	No:	47 .	- 017	 3833	-

State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

				<u> </u>	<u>:</u>
4)	Surface Owner(s)	to be served.	5) (a) (	Coal Operator	• •
	(a) Name Tom Savor	v		- Operator	
	Address 4354 Kenn	eth Road	_ Address		
	Stow, Ohi		*********		
	(b) Name		(b) Coa	1 Owner(e) wi	th Declaration
	Address		(D) COa.		
	(c) Name		_ Address		
	Address		N - m -		
	Address		_ Name		
			_ Address	·	
6)	Inspector Mike Unde	75.10.0d	(-) 0	7 7	
0 )	Address Rte 2, Bo	- 13E			n Declaration
			_ Name		
	Salme, WV		_ Address		
	Telephone (304)	/82-1043			****
	Train on the state of the state				
•	TO THE P	ERSON(S) NAMED	ABOVE TAKE	NOTICE THAT:	<u>.</u>
	** * * * *	_			
	Included is the l	ease or leases	or other co	ontinuing con	itract or
cont	racts by which I h	old the right	to extract	oil and gas C	<u>)R</u>
X	. Included is the i	nformation reg	uired by Cha	apter 22B. Ar	ticle 1,
Sect	ion 8(d) of the Co	de of West Vir	ginia (see 1	page 2)	•
	I certify that as	required unde	r Chapter 2	2B of the Wes	t Virginia Code
I ha	ve served copies o	f this notice	and applicat	tion a locat	ion plat and
acco	mpanying documents	pages 1 through	ch 5 on +1	pe spore name	d partice but
	Personal Ser	vice (Affidavi	4., <del></del> on c,	ie above name	d parties, by:
	Certified Ma			_:	
	Dublication	/Notice of Date	postal rece	sipt attached	()
	Publication	(Notice of Pub	lication at	cacned)	
					•
ـد ـــــــــــــــــــــــــــــــــــ	I have read and u	nderstand Chap	ter 22B and	38 CSR 11-18	, and I agree
LO T	he terms and condi	tions of any p	ermit issued	d under this	application.
_	I certify under p	enalty of law	that I have	personally e	xamined and am
tami	liar with the info	rmation submit	ted on this	application	form and all
atta	chments, and that	based on my ind	guiry of the	ose individua	ols immediately
resp	onsible for obtain	ing the inform	ation, I be:	lieve that th	e information
is t	rue, accurate, and	complete.	•		
, % *	I am aware that t	here are signi	ficant pena	lties for sub	mitting false
info	rmation, including	the possibili	ty of fine a	and imprisonm	ent.
The second second		Well Operat	or DRILLING	APPALACHIAN COR	DODAMION
	OFFICIAL SEAL NOTARY PUBLIC	By:	Kenneth	- 4/1/1	FORATION
12	STATE OF WEST VIRGINIA	Its:	President	Prason	
ALC: Y	J. L. MASON	Address			
	P. O. Box 48 Alma, West Virginia 26320	Address	PO Box 99		
	My Commission Expires Jan. 28, 1997	Tolophone	Alma, WV		Mar-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
211 P.C		Telephone _	(304) 758	<u>-4638</u>	
บนมธา	cribed and sworn b	erore we this '	IZTN day of	June	, 19 <u>90</u>
N/- :		1 /20 /25		WULA	Notary Public
мус	ommission expires	1/28/97			