

(5) = Surveyed Call (D) = Deed Call

New Location  Drill Deeper  Abandonment  Source of Elevation  Source of	Minimum Error of Closure  Source of Elevation  Sour						
Company Hampshire Gas Co.  Address 6801 INDUSTRIAL ROAD, SPRINGFIELD,	M. STATE OF WEST VIRGINIA DEPARTMENT OF MINES						
Farm HELMICH/TETER	OIL AND GAS DIVISION  CHARLESTON						
Tract Acres 570 Lease No. 43  Well (Farm) No. 28 Serial No.  Elevation (Spirit Level) 3784.24 EC  Quadrangle Harman (772 Minute)	WELL LOCATION 7257-P						
Quadrangle Harman (71/2 Minute)  County Randolph District Dry Fork  Engineer William D. Sweeper	+ Denotes location of well on United States Topo- graphic Maps, scale 1 to 24, goglatitude and longi- tude lines being represented by border lines as shown.						
Engineer's Registration No. <u>5953</u> File No Drawing No. <u>14-28</u> Date	Denotes one inch spaces on border line of original tracing.  SEP 1 8 1979						

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×20075

DEEPWEU

Plotung Log Card CSD Latitude 38 MASON HARPER 208 30, 200 Sugar on Ridge 0 8 % RUTH Helmick (D) NS/DOE 75/Z NOLA Terer -3 (570 ACRES) (D) NZC95E, 990 . Well Hole # 28 -(a) N3325, 683 J Elev. = 3784.24' Red O. stump of fence Corner (found) TOPO MAP Z N 28°46'E, 894.0 (5) LOCATION 36" Red O. of Fence Cor. 20" Ash of N34°51'E, 739.0' (5) Few. Conver WILSON SMITH 543.0 (5) "Theo. Fence Cor. AT edge . SITES of gaswell Road. (5) = Surveyed Call
(D) = Deed Call 2500 Minimum Error of Closure Source of Elevation USGS BM. ON NORTH SIDE OF US 33 New Location .... 2 5/8 of amile southeast of Laurel Fork Bridge = 2959.00' Drill Deeper ..... "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and Abandonment ..... belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia." Company Hampshire Gas Co. STATE OF WEST VIRGINIA Address 6801 INDUSTRIAL ROAD, SPRINGFIELD, Va. DEPARTMENT OF MINES OIL AND GAS DIVISION Farm HELMICK/TETER CHARLESTON \_\_\_\_\_\_ Acres \_\_\_\_\_\_ Lease No.\_\_\_ Well (Farm) No. 28 LOCATION MAP 47-083-0257 Elevation (Spirit Level) 3784.24 Quadrangle Harman (792 Minute)

+ Denotes location of well on United States Topographic Maps, scale 1 to 24, applatitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original

vero well

1-0

APR 1 6 1979

N20075

File No.\_

Date

County Randolph District Dry Fork

Jan. 18, 1979 Scale 1" = 1200'

\_\_\_ Drawing No. #-28

Engineer Willia D. Sweeper

Engineer's Registration No. 5953

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and the state of the second of

FORM IV-35 (Reverse)

[08-78]

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

Oriskany formation was fractured with 1340 barrels of gelled water, 15,000 1b 80/100 mesh sand; 65,000 16 20/40 mesh sand. Average rate was 22 bb1/min at 3300 psi. Shut in pressure was 3175 psig.

WELL LOG

			and the first of the second		and the state of t
FORMATION	Color	iland or Cuft	<b>3</b> 9 Top Feet	Bóttom Reet	Remarks Including indication of all frest and salt water, coal, oil and salt
Shale with interbedded sandstone and streaks	Courses the course of the cour				
of limestone	Red	Hard	0	750	Mauch chunk
Limestone	Medium				The second secon
	Brown	Soft	750	1180	Greenbriar ;
Shales & sandstone	Red & Med	. Soft w/			
	Grey	some har			
		streaks	1180	3310	Catskill
Shale, silty, streaks of siltstone and some		RETINENCE ** **voju	SECOND CONTRACTOR CONT		
thick sands	Med.Grey	Soft	3310	7810	Chemung
Shale, streaks of dark	200	And in case of the			Residence of the Control of the Cont
shale	Med.Grey	Soft	7810	8472	Portage
Shale, calcareous	Dk.grey t	,			
and the second s	black	Soft	8472	8518	Harrell
Shale	Dk.grey t				
	black	Soft	8518	8836	Hamilton
Shale	Black	Soft	8836	8950	Marcellus
Metabentonite	Red/Brown	Soft	8950	8951	Tioga
Limestone	Dk. grey	Soft	8951	8980	Onondaga
Chert	White	Hard	8980	9004	Huntersville
Shale	Light grey	Soft	9004	9092	Needmore
Sandstone-Argil.,v.calc.	Milky to	eo-residential step	- special spec		
inestone w/chert	clear wh	Hard	9092	9315	Oriskany
Truescone Michel	Lt.brown				<b>!</b>

to lt.grey Hard (Attach318 parate sheets to complete as necessary)

HAMPSHIRE GAS COMPANY Well Operator

intendent, & Storage Natural

X TE: Regulation 2.01(1) provides as follows:

<sup>&</sup>quot;The ter: 'Isa' or 'well log' shall mean a systematic, detailed geologial resord of all formations, including osal, encountered in the drilling of a well."







## Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  Charleston, W. Va.	DATE February 6. 1979			
Puth Holmida Motor				
Surface Owner Ruth Helmick/Nola Teter				
Address Brandywine, West Virginia 26802				
Mineral Owner same as above	110,00			
	Location (waters) Between Dry Fork & Laurel Fork			
	Well No. 28 Elevation 3784.24			
	District Dry Fork County Randolph			
Coal Operator	Quadrangle Harman			
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 IN for <u>drilling</u> . This permit shall expire if TO	BE NOTIFIED Robert S. Stewart			
NAT I D	ODRESS Box 345, Jane Lew, West Virginia 26378 HONE 884-7782			
Deputy Director - Oil & Gas Division	004-7702			
GENTLEMEN:				
The undersigned well operator is entitled to drill upon 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 lease da				
Martha White made to Skeen Enterprises, I	nc. and recorded on the 21st day of August			
1970 in Randolph County, Book 267	Page			
XX NEW WELLDRILL DEEPER	REDRILL FRACTURE OR STIMULATE			
OIL AND GAS WELL ORIGINALLY DRILLED				
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators			
The above named coal owners and/or operator are hereby not make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required ed with the Department of Mines within ten (10) days. *			
Copies of this notice and the enclosed plat were mailed by ror coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Department	artment of Mines at Charleston, West Virginia.			
V PLEASE SUBMIT COPIES OF ALL	ery truly yours, HAMPSHIRE GAS COMPANY			
	Sign Name) Well and the Market of the Market			
	Well/Operator			
VA. OIL & GAS CONSERVATION COMMISSION Address	6801 Industrial Road Street			
13 WASHINGTON STREET, EAST of	Controlling Wine			
HARLESTON, WEST VIRGINIA 25311 "Operation	City or Town			

\*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.

47-083-0257 PERMIT NUMBER

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

Va.

PROPOSED WORK ORDER T	O XX DRILL	DEEPEN F	RACTURE-STIMILLATE	
DRILLING CONTRACTOR: (		RESPONSIBLE AGENT:		
NAME Arden Drilling (	Company	NAME Harry L. Ketcham, Jr.		
ADDRESS P.O. Box 1237, I	Edmond, Oklahoma 73034	ADDRESS 6801 Industrial Road, Springfield,		
TELEPHONE			50-4871	
ESTIMATED DEPTH OF COM			CABLE TOOLS	
PROPOSED GEOLOGICAL FO	RMATION: Oriskany Sand		CABLE TOOLS.	
	· · · · · · · · · · · · · · · · · · ·	TMB STOP 40 F	DISPOSAL	
			ODOTHER	
	Tebo Toba	WAILN FLO	ODOTHER	
TENTATIVE CASING PROGRA	AM:			
ent is the management of the control	TO THE AN ADMINISTRATION AND ADMINISTRATION OF THE ADMINISTRATION			
CASING AND TUBING SIZE	USED FOR	LITTIN	CLMINT LILL UP	
20 - 16	DRILLING	WELL	OR SACKS - CUBIC 11.	
13 - 10 13 - 3/8"	COL	The second secon	6333	
9-5/8 9-5/8"	/ 3,0001		70 sacks	
8 - 5/8	/ 3,000		1,200 sacks	
7 7:0	9,500'	1,000'	The same of the sa	
5 1/2		The second secon	160 sacks	
4 1/2				
3			Perf. Top	
2 2-3/8"	9,600'	01	Perf. Bottom	
Liners		And a control of the	Perf. Top	
		The same of the sa	Perf. Bottom	
1		And the second s		
APPROXIMATE FRESH WATER	R DEPTHS N/A FEET	N/A SALT WATER	N/A FEET N/A	
APPROXIMATE COAL DEPTHS	N/A	eren eren eren eren eren eren eren eren	118, 111, 111, 111, 111, 111, 111, 111,	
IS COAL BEING MINED IN TH	HE AREA? NO	BY WHOM?		
TO DRILL:	The state of the s	117 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
OF PLAT.	G OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BO	ND AND PERMANENT COPY	
•		•		
TO DRILL DEEPER OR REDRI				
SUBMIT FIVE (5) COPIES	OF OG - 1, SHOWING ORIGIN	AL PERMIT NUMBER AND	PERFORMANCE BOND. ON	
MUST ALSO BE SUBMITT	10 1929, A PERMANENT COF	PY OF THE PLAT AND TH	HE ORIGINAL WELL RECORD	
•				
TO FRACTURE - STIMULATE:				
BOND PERMANENT DIAT	RIGINALLY DRILLED BEFORI AND ORIGINAL WELL RECO	E JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE	
ING ORIGINAL PERMIT NI	RIGINALLY DRILLED ON AND JMBER, AND PERFORMANCE B	D/OR AFTER JUNE 5, 1929.	FIVE COPIES OG - 1, SHOW-	
four (24) hours in advance.	d within ninety (90) days of cor	mpletion for bond release. I	nspector to be notified twenty-	
iou. (24) nours in auvance.				
		CONTRACTOR OF THE CONTRACTOR O		
		The second secon	The state of the s	
	and the state of t			
		4 10 11		
hereof.	be completed by the coal opera	tor if the permit is to be iss	ued within ton days of receipt	
WAIVER: I the undersigned, Age	ent for	C1 (4)		
this lease have examin	ed and place on our mine maps	this proposed with the	r Operator of the coal under	
providing operator 1	Coal Company have	ve no objections to said well	being drilled at this location,	
providing operator has c	complied with all rules and regula	tions in Articles 4, 5, and 7,	Chapter 22 of the West Virginia	
<b>₩</b> 4€.				
			Mg	
ে ইয়েলনেট লই প্রসানী স্বাহাই একটি	n isses o be a color of the color	For	Coal Company	
graficial regions a returnique l'inferit freguesia e semior néh timbretim la	ခရီး ကြို့သည်။ ကျော်နေသည် သူတို့ သို့သောကြသောကြသော ခြောက်သောကျသော် သည် သည်။ ကျော်သည် မြေသည် မြေသည်			
صيحة المراجعة	•		Official Title	