Longitude

Latitude

Tope Location

1,245 .95w

7.5' Loc.\_\_\_\_\_\_ 15' Loc.\_\_\_\_\_ (calc.)

Company Jack Morrow

Farm Jack Morrow #1

15' Quad\_\_\_\_\_\_\_(sec.)

7.5' Quad Woosido

District frant

WELL LOCATION PLAT

County 029 Permit 88

Wellsville



## STATE OF WEST VIRGINIA

#### **DEPARTMENT OF MINES**

#### Oil and Gas Division Chache Market Ma WELL RECORD



w		5	II'	W	
Li "	N! 6			197	

DE. I		The second	}
Rotary_		Oil	
Cable	_X	Gas	x Show
Recycli	ng	Comb	-
Water F	Flood	Storage	<del></del>
Dienosa	1	Dr	7.

Quadrangle. Han 88 Permit No. -(Kind) Jack Morrow Company\_ Casing and Used in Left Cement fill up Address\_\_\_ RD#2 New Cumberland, W.Va. **Tubing** Drilling in Well Cu. ft. (Sks.) Farm Jack Morrow Acres 72.8 Location (waters) Ohio District Grant County Hancock
The surface of tract is a county Size 20-16 Cond. 13-10" 9 5/8 - Same . Address\_\_\_\_ 621 621 8 5/8 1481 1481 Jemented 195ac 7 Mineral rights are owned by\_\_\_\_ 4671 Same Jelled : : 5 1/2 4671 \_\_\_\_\_ Address\_\_\_\_\_ Drilling Commenced Mar. 12,1975

Drilling Completed April 10, 1975 4 1/2 Drilling Completed April 10, 1975

Initial open flow 10,000 cu. ft. bbls.

Final production cu. ft. per day bbls. None Liners Used Well open \_\_\_\_\_\_ hrs. before test\_\_\_\_\_ RP. Well treatment details: Attach copy of cementing record. Shot with 100lbs Jeleton from 638' Cleanen well after Shot Coal was encountered at None Fresh water 451 Feet to 654 Salt Water. Berea 635' 654**>** T.D. Producing Sand Depth \_

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Sand	Br <b>o</b> wn	Soft	Ú	4	
Large Sar	nd				·
Gravel		t <b>t</b>	4	55	water at 4.31
Sand	ತಿ <b>row</b> n	11	55	62	
Sami Stor	ne Brown	Lard	62	67	
Shale L	Gr <b>a</b> y	Sort	6 <b>7</b>	70	
Lime		Hard	<b>7</b> 0	78	water at 75'
Shale I	LOLD GARAY	h Hard	78	190	
ime	Brown	hard	190	200	
Gray Shal	Le Gray	l Hard	200	240	
Shale	Black	Soft	240	250	Salt water at 240'
Sand	Gray	Hard	250	262	
Shale 1	Gray	l Hard	262	285	
Sand	White	Hard	285	295	
Shale	Black	H Hard	295	362	
Sand EnGi	ine Gray	Hard	<b>56</b> 2	430	
Shale	Gray	3oft	450	465	·
Sand I	Gray	Hard	465	498	
Shale		F Hard	498	612	,
Shale	Black	Joft	<b>61</b> 2	635	
Sand	Thite	Hard	635	654	Berea Sand
-					Gas at Chi.
•	·	<u> </u>	(0.1	<u> </u>	

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.





OIL & GAS DIVISION DEFT. OF MINES

### Oil and Gas Division

**DEPARTMENT OF MINES** 

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE
Surface Owner	Company
Jack Markey	
Address 3. D. S. Carriera and Mineral Owner	Farm Acres 72.6
Address	Location (waters)
Coal Owner	Well No. 1 Elevation George
Address	District County Bancock
Coal Operator	Quadrangle
Address	
The state of the s	현 100 m (1997년 - 1997년 - 1997 - 1997년 - 1997
And the second sin accordance with Chapter 22,	
in after the Value of the location is hereby approved the	
for drilling This permit shall expire if	
operations have not commenced by 6-28-75	
Truth odd	IN COR TO BE NOTHED Richard Morris
Deputy Director - Oil & Gas Division	Grantsville, W.Va. PH: 354-7259
	diameter in the second
GENTLEMEN:	
title thereto, or as the ease may be under grant er lease da  made to  19	and recorded on the day of
	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	
<u></u>	A A A A
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 n to 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 a or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Department.	registered mail, or delivered to the above named coal operators  day before, or on the artment of Mines at Charleston, West Virginia.
	Very truly yours,
· · · · · · · · · · · · · · · · · · ·	Sign Name) Jock Mmon
COPTES OF ALL	Well Operator
PLEASE SUBMIT COPIES OF ALL  PLEASE SUBMIT COPIES OF ALL  RECFERENCE TO S DIRECTLY TO:  Address  Of  West Virgi Goological and Economic Survey  Well Opera	
RECFERENCE And Economic Address of	Street
West Virgi Well Opera	tor
P. O. Bours W. Va. 20000	City or Town
Morgantown, AC 304-296-4461	
10 704-296-4401	₩.Va.

\*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.

HAN+88

\_PERMIT NUMBER

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN FRACTURE-STIMULATE  RESPONSIBLE AGENT:  NAME			
DRILLING CONTRACTOR: (If Kn	own)				
NAME Smith Drilling Con	Atractors, Inc.				
ADDRESS R.D. #1. Box 66, TELEPHONE 587-0127	Chester, W.Va.		ew Cumberland. W. Va.		
ESTIMATED DEPTH OF COMPLET	ED WELL:	ROTARY	CABLE TOOLS		
PROPOSED GEOLOGICAL FORMAT	<b></b>		₹ <u>}</u>		
TYPE OF WELL: OIL		MBSTORAG	E DISPOSAL		
	and the second s		OODOTHER		
TENTATIVE CASING PROGRAM:					
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	OR SACKS - CUBIC FT.		
20 - 16					
13 - 10	,				
9 - 5/8					
	40°		Drive ripe		
7 5 1/2	150° 150° 150° 150° 150° 150° 150° 150°	Aque Jel behind hipe			
4 ½		Address of the Contract			
3			Perf. Top		
2	· · · · · · · · · · · · · · · · · · ·		Perf. Bottom		
Liners			Perf. Top		
N.			Perf. Bottom		
APPROXIMATE FRESH WATER D					
WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED. TO FRACTURE - STIMULATE:	OG - 1, SHOWING ORIGINATED BEFOR	PPY OF THE PLAT AND RE JUNE 5, 1929, FIVE (5	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  O) COPIES OG - 1, PERFORMANCE		
	GINALLY DRILLED ON AN	ND/OR AFTER JUNE 5, 19	929, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed value four (24) hours in advance.	within ninety (90) days of c	ompletion for bond release	e. Inspector to be notified twenty-		
The following waiver must be thereof.	completed by the coal oper	rator if the permit is to b	e issued within ten days of receipt		
WAIVER: I the undersigned, Agent this lease have examined	forand place on our mine ma				
We the	Coal Company l	have no objections to said	well being drilled at this location, d 7, Chapter 22 of the West Virginia		
			For Coal Company		
		- A	Official Title		