Plot Log Card CSD M2/ 473 Latitude 39 \$ 70 PE 80 STAKE ACRES DEED 134/336 TRACT SECOND DEED STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION **CHARLESTON** WELL LOCATION MAP FILE NO. 47-095-0683 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown. - Denotes one inch spaces on border line of original tracing. 1979 MAR 9 3198' 50 Sail SISTERS VILLE

ELV. 998 -3 CLAIR V. STARKEY TOPO LOCATION 72 SHAILED Repay SAME (ERROR Minimum Error of Closure METHOUS USED SHOULD PRODUCE 1 10 3500 Source of Elevation BASE ELEV. POINTS WERE 1108 AND 1042 FRO New Location .... EAREST ROAD INTERSECTIONS SHOWN ON TOPO MAP 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 EMES PETROLEUM Address 69 LACONIA BLDG WHEFLING WV 2003 FARM CLAIR STARKEY (20 ACRE DRILLING UNIT) Tract 20 Re. Unit Acres 174 Well (Farm) No. CLAIR STARKEY #1 Elevation (Spirit Level) 798 New Martinsville SW Quadrangle PADEN District LINCOLN TYLER SURVEYOR M. PARSONS HENRY SURVEYOR'S Engineer's Registration No. 98 File No. 78-5288 Drawing No. 78-5288 Date NOV Scale 1"=500 1978

UCT 1 9 1979

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[08-1					WELI	OPERATO	R'S REPORT 47			rekey#1
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CASING AND CASING OR TUBING TYPE Conductor Presh water Coal Intermediat Production Tubing Liners OPEN FLOW Di Produc	TUBING  Size  1/3  8 8  1/4  ATA  ing form  Fin	PROGRASPEC Grade Grade Time	M/ 4-/ AM CIFICATI Weight per ft  . 20 form flow, cof ope	ONS New X X	Used //p 23otwo	FOOTAG  FOOTAG  OF GT111:  Mof/d  Mof	being mined in And complete of the servals in the s	CEMENT FILITOR SACKS COUDIC FEE  75 5ks. 320 5ks  4/5 5k  Pay zone de 1 open flow, open flow, after	Sizes Depths Perfor	PACKERS  Set  Set  Pations:  Physical Sectors  Bb1/d  Bb1/d  NOV 1 4 1979

[08-78]

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

PERFORATIONS 14 .50 holes 2792-2813

TRATURING

1500 BBL 1420, 100,000 SAND, 122,000 NZ

WELL LOG

PORMATION  COLOR SOFT TOP FEET BOTTOM INCLUDING INCLUDING TO ALL FREE SOFT TOP FEET TOP FEET INCLUDING INCLUDING TO ALL FREE SOFT NO RELOAD  ZND COWRW SAND SOFT NO RELOAD  SALT SAND SAND HARD NO RELOAD  NO LOG  SALT SAND FRINGERS SAND HARD NO RELOAD  NO LOG  SALT SAND FRINGERS SAND HARD NO RELOAD  NO LOG  SALT SAND FRINGERS SAND HARD NO RELOAD  NO LOG  SALT SAND STRINGERS SAND HARD 1578 1652  LITTLE LIME LIME HARD NO MESTER!  PEMIL CAVE SHALE SOFT 169L 1710  BY ZIME  LIME HARD 1730 1748  SAND SOFT 1768 1809  BY ZIME  LIME SAND SOFT 1768 1809  BY ZIME SAND HARD 1244 231L  SANDS HALE SOFT 240 2324 231L  SANDS SHALE SOFT 270 2820 CASS  FLETT SAND SHALE SOFT 270 2820 CASS  SINT STORE SOFT 270 2820 CASS  SAND SHALE SOFT 270 2820 CASS  SAND SAND SAND SAND SAND SAND SAND SAND						
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2380 679 EXPL FT

NOTE: Regulation 2.02(i) provides as follows:

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





Va.

F MINES

## Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE 1-19-79
Surface Owner Clair Starkey	CompanyEmes Petroleum
Address Sistersville, W. Va.	
Mineral Owner Clair Starkey	Farm Starkey Acres 174
Address Sistersville, W. Va.	Location (waters) Badger Run
Coal Owner Clair Starkey	
Address Sistersville, W. Va.	District Lincoln County Tyler
Coal Operator None	Quadrangle Paden City, W. Va.
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 for <u>drilling</u> . This permit shall expire if operations have not commenced by 10-13-79  Deputy Director - Oil & Gas Division	
Deputy Director - On & Ods Division	THORE
GENTLEMEN:	
	the above named farm or tract of land for oil and gas, having fee
	dated Oct. 4 1978 by John
Richmond made to James T. Emes  19 78 in Tyler County, Book 217	and recorded on the _4th day of _Oct
	REDRILLFRACTURE OR STIMULATE ED BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer have been notified as of the above date.	or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereb to make by Section 3 of the Code, must be received by, or	y notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. *
	by registered mail, or delivered to the above named coal operators  day before, or on the Department of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Constant Well Operator
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Add	ress Street
P. O. BOX 879 Well Op	7.57
MURGANTUWN, WEST VIRGINIA 2000	City or Town
AC-304 - 292-6331	W. Va.
	State

\*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.

47-095-0683

\_PERMIT NUMBER

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

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:			
NAME Haught Drilling		NAME C. W. Riggs, Inc.			
ADDRESSSmithville,	W. Va.				
TELEPHONE 477-3333		ADDRESS Box 358, St. Marys, W. Va. TELEPHONE 684-3974			
ESTIMATED DEPTH OF COMPI	ETED WELL: _3198!		CABLE TOOLS		
PROPOSED GEOLOGICAL FOR	MATION: Fifth Sand		TOOLS		
TYPE OF WELL: OIL_		MR X STORAC	F DISPOSAT		
<u> </u>					
TENTATIVE CASING PROGRAM		G WATER FL	OODOTHER		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WILL	CEMENT LIFE UP OR SACKS - CUBIC LE.		
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13 - 10					
9 - 5/8					
8 - 5/8 250 1		250'	Cement Top-Botton		
7 5 ½					
4 ½		04001			
3		3198'	200 sks.		
2			Perf. Top		
Liners		And the second	Perf. Bottom		
			Perf. Bottom		
or imi.	OF OG 1, \$100.00 PERMIT	BY WHOM?	and the second of the second o		
MUST ALSO BE SUBMITTED	F OG - 1, SHOWING ORIGIN O 1929, A PERMANENT COP	AL PERMIT NUMBER AN Y OF THE PLAT AND	ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
O FRACTURE - STIMULATE:					
, I EIMANIMI I LAI	AND ORIGINAL WELL RECO	RD.	COPIES OG - 1, PERFORMANCE		
OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	IGINALLY DRILLED ON AND IBER, AND PERFORMANCE B	O/OR AFTER JUNE 5, 192 OND.	9, FIVE COPIES OG - 1, SHOW-		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of cor	npletion for bond release.	Inspector to be notified twenty-		
			issued within ton days of receipt		
AIVER: I the undersigned, Agent this lease have examined	t for I and place on our mine maps	Coal Company, Owner this proposed well locati	or Operator of the coal under		
We the	Coal Company hav	re no objections to said we tions in Articles 4, 5, and 7	ell being drilled at this location, 7, Chapter 22 of the West Virginia		
		l'c	or Coal Company		
			Official Title		