ricat Log Card CSD E. ROOME) °35 SET FENCE ACORNER Latitude ACRES 49 か 0 40 PROP**OSE**D # 2 Well Location Elv. **9**86 20 ACRE OF 1,645 2146 CLAIR V. STARKEY 174 ACRES DCATION DEED 134/336 500W 2409 5*38* % 2392.5 077 S (EPROR OF CLOSURE SAME BROKEN , FROM DEE SURVEY Minimum Error of Closure METHODS USED SHOULD PRODUCE / IN 2500 Source of Elevation BASE ELEV. POINTS WERE 1108 AND 1042 FROM **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 STATE OF WEST VIRGINIA Address 619 LACONIA BLDG WHEEL ING WV DEPARTMENT OF MINES OIL AND GAS DIVISION Farm CLAIR STARKEY (20 ACRE DAILLING UNIT **CHARLESTON** Acres 174 Lease No Well (Farm) No. CLAIR STARKEY 2 Serial No. ELL LOCATION MAP FILE NO. <u>47-095-06</u>88 WELL 286 Elevation (Spirit Level)\_ Quadrangle PADEN CITY NEW MARTINSVILLE 15 + Denotes location of well on United States Topographic Maps, scale 1 to 02,500 latitude and longi-TYLER District LINCOLN URVEYOR HENRY M. PARSONS Syrveyor's Engistration No. 98 tude lines being represented by border lines as shown. Denotes one inch spaces on border line of original File No. 78-5288 \_\_ Drawing No. 78-5288-A Date PEC Scale 1"= 500 1979 MAY 8 SISTERSVILLE owwo y

100T . 9 1979

Statte rock pressure,

Second producing formation

[if applicable due to multiple completion -- ]

CHE CAS DIVISION CLAR OF MINES , 1979 STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION FORM IV-35 (Obverse) MIN. STARKEY #2 WELL OPERATOR'S REPORT 44 API Wel [08-78] SELLIGHT, Charle RENT AND/OR STIKE MATTER. WELL TYPE: 011 X / Gas X / Liquid Injection Underground storage Watershed: BADABRICUN DESIGNATED AGENT C. W WELL OPERATOR EMES PETROLEUM Address 619 LARONIA BLAG. Address Box 35 PERMITTED WORK: Drill X / Convert / Drill deeper Plug off old formation-Perforate new formation\_ SEP 2 4 1979 Other physical change in well (specify) OIL GAS INSPECTOR FOR THE THE MINES PERMIT ISSUED ON 1979me PHIL (IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION ONTAINED Address MIDNIE RODA GEOLOGICAL TARGET, PORMATION: FIFE Depth 3/50 Depth of completed well, 3012 feet Rotary X / Cable Tools Water strata depth: Fresh NA feet; salt, Ma feet. N/A Is coal being mined in the area? Coal seam depths: 5-2, 1979, and completed 5-7 Work was commended CASING AND TUBING PROGRAM CAPING OR TUBING TYPE FOOTAGE INTERVALS SPECIFICATIONS 7107 RS Fresh water Production Liners OPEN FLOW DATA Producing formation GORDON Paymone depth 2808 Gas: Initial open flow, Oil: Initial open flow, MA Mcf/d Final open flow, Final open flow, between initial and final tests,

\_\_pulg (surface measurement) after

hours shut in

Pay zone depth \_\_\_\_

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

PERFURATIONS
14 .50 holes

FRACTURING

1500 BBL HZO, 100,000 # SAND, 135,000 N2

WELL LOG

FORMATION	Color	llard or Soft	Top Feet	Bottom Peet	Including indication of all fresh and salt water, coal, cil and gas
15T Cow Run	SAND	SOFT	No Re	(020)	HOLE CASED
2ND CON RUN	SMD	5-हा	MOR		1
SALT SAND	SAND	HARD	HOR	toro)	85 CEMENTOD
MAXTON	SAND	SOFT- HARD	1510	1636	No Log
PENCIL CAVE	SHALE	SOFT	1285	1000	
Big LIME	LIME	HALD	1731	1767	
KEENER	SAND	SOFT	1784	1830	
BIG INJUN	LIME SAND SHALE	HARU	1892	1958	
Squaw	SAND	1+ ARD	1980	2016	
WEIR	Sano	HARD	2219	2298	
BEREA	SAND	HARD	2370	2376	
Goroon	STLTSTUN	E SOFT	2804	2840	OIL- GAS
FIETH SAND	SHALE	SOFT	2900	2926	
			2926 -	3012	TD.
	•	(4++	ing annual		TO SEE LINE TEEN FEET IN TOWARDS FOR THE TOWARDS

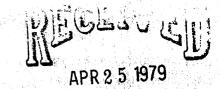
(Attach separate sheets to complete as necessary)

Veri Operator T. Emila.

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."





OIL & GAS DIVISION DEPT. OF MINES

## Oil and Gas Division

## OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE 4-19-79
Surface Owner Clair Starkey	
Address Sistersville, W. Va.	
Mineral Owner Clair Starkey	
Address Sistersville, W. Va.	그 그는 사람이 많은 사람들이 살아 있다면 하는 것이 되었다. 그는 사람들이 하는 사람들이 되었다면 하는 사람들이 되었다면 하는 것이 없다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 사람들이 되었다면 하는데 되었다면 되었다면 하는데 되었다면 되었다면 하는데 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면
Coal Owner Clair Starkey	그는 그
Address Sistersville, W. Va.	District Lincoln County Tyler
Coal Operator None	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
Deputy Director - Oil & Gas Division  GENTLEMEN:  The undersigned well operator is entitled to drill u	ofer 22,  poproved INSPECTOR  expire No BE Notified Philip Tracy  1-79  ADDRESS Middlebourne, W. Va.  PHONE 758-4573  Phone phone Trace of land for oil and gas, having fee
Richmond made to James T. Em	lease dated Oct. 4 19 78 by John les and recorded on the 4th day of Oct.
19 78 in Tyler County, Book	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
OIL AND GAS WELL ORIGINALLY D	REDRILL FRACTURE OR STIMULATE RILLED BEFORE JUNE 5, 1969.  Ingineer or licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received in	hereby notified that any objection they wish to make, or are required by, or filed with the Department of Mines within ten (10) days.
or coal owners at their above shown respective addressme day with the mailing or delivery of this copy to  PLEASE SUBMIT COPIES OF ALL	the Department of Mines at Charleston, West Virginia.  Very truly yours,
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) X (LANIC) 1. CMIN) Well Operator
WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331	Address Street of /ell Operator Wheeling City or Town
	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 and the time same is approved and the well operator and the same is approved.

HELD BY TREASURER

47-095-0688 PE

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 RESPONSIBLE AGENT:			
DRILLING CONTRACTOR: (If	Known)				
NAME Little Swiss Dri	illing	NAME C.W. Riggs, Inc.  ADDRESS St. Marys, W. Va.  TELEPHONE 684-3974			
ADDRESS Buchannon, W.	Va.				
TELEPHONE 472-6396					
ESTIMATED DEPTH OF COMPL		ROTARV V	CARLO		
PROPOSED GEOLOGICAL FORM	MATION: Fifth Sand	CABLE TOOLS			
TYPE OF WELL: OIL_		OMB X			
	PECVOL D	STORAG	EDISPOSAL		
TENTATIVE CASING PROGRAM		WATER FL	OOD OTHER		
CASING AND TUBING SIZE	USED FOR	LUIT IN	CEMENTERE		
20 - 16	DRILLING	WILL	OR SACKS CUBIC 1 I.		
13 - 10					
9 - 5/8		\$ 1,50°			
8 - 5/H 250 ·		0500			
7		250'	cement top-bottom		
5 1/4					
4 %		2450:			
3		3150			
2	•		Perf. Top Perf. Bottom		
iners			Perf. Top		
			Perf. Bottom		
APPROXIMATE FRESH WATER DATE OF THE SECOND SEING MINED IN THE					
O DRILL:		BY WHOM?			
OF PLAT	F OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BO	OND AND PERMANENT COPY		
O DRILL DEEPER OR REDRILL: SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED.	OG . 1 SHOWING ORIGIN	AL PERMIT NUMBER AN Y OF THE PLAT AND T	D PERFORMANCE BOND. ON		
MUST ALSO BE SUBMITTED.  D FRACTURE - STIMULATE:			HE ORIGINAL WELL RECORD		
	CINALI V DDILL DD DDDCD				
OIL AND/OR GAS WELL ORIG BOND, PERMANENT PLAT A					
OIL AND/OR GAS WELL ORIGING ORIGINAL PERMIT NUMB	The state of the s	OND.			
Required forms must be filed w four (24) hours in advance.	rithin ninety (90) days of con	npletion for bond release.	Inspector to be notified twenty-		
The following waiver must be creof.	completed by the coal operat	or if the permit is to be to			
MVER: I the undersigned, Agent f this lease have examined a	or	Coal Company Owner			
this lease have examined a	and place on our mine maps	this proposed well location	or operator of the coal under		
We the					
providing operator has com	plied with all rules and regulat	ions in Anti-lea 4	l being drilled at this location, Chapter 22 of the West Virginia		
Code.	The second secon	The in Articles 4, 5, and 7,	Chapter 22 of the West Virginia		
		•			
		l'or	Coal Company		
		<b>,</b>			
			Official Title		