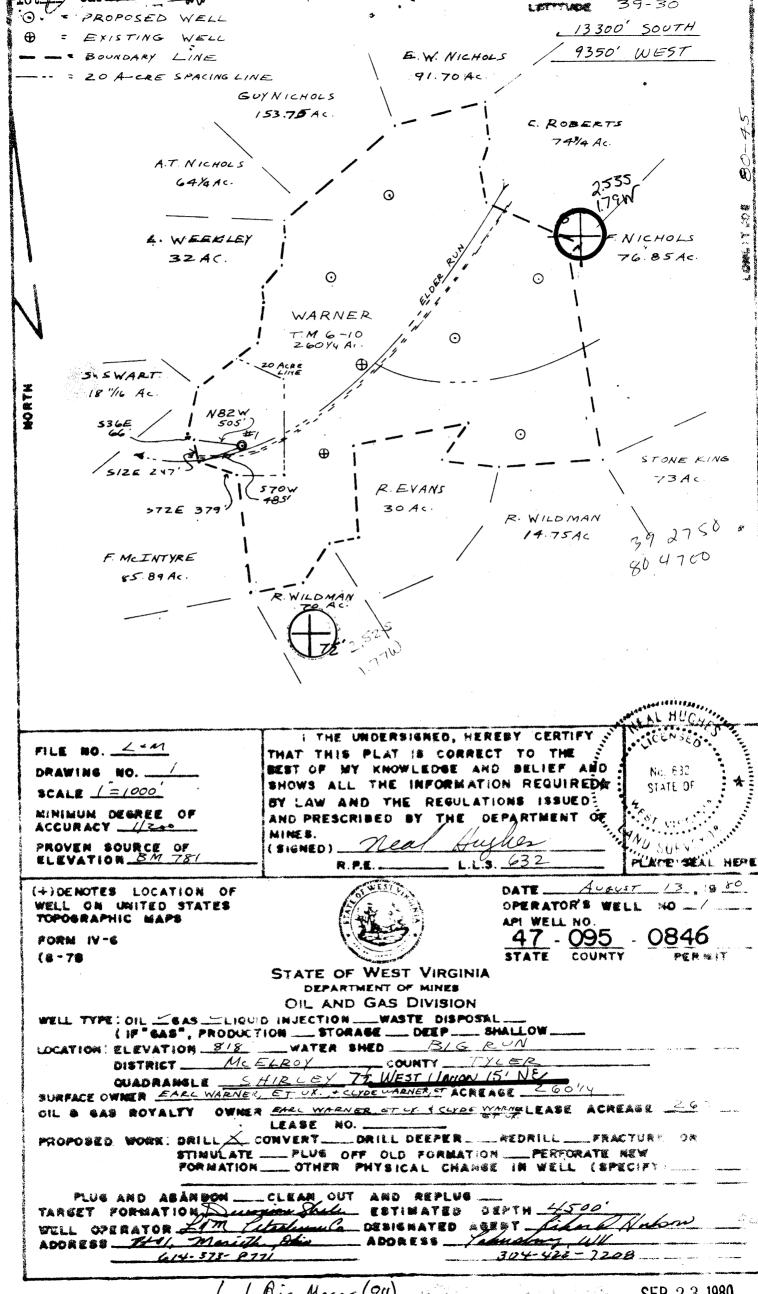


in early contrain



6-6 Big Moses (94)

SEP 23 1980



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division

Quadrangle_Shirley Permit No. 47-095-0846	WELL	RECORD		Rotary Cable Recycling Water Floo Disposal	Comb. X Storage
Company L&M Petroleum Co. Address P.O. Box 89, Reno, OF Farm Earl & Clyde Warner Ac	I 45773	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Big Run Well No. 1 District McElroy County Ty	v. 818 vler	Size 20-16 Cond.		,	
The surface of tract is owned in fee bysame as above	···	13-10" 9 5/8			
Address Box 29, Alma, WV Mineral rights are owned by Same as a Address		8 5/8 7 5 1/2	248		,
Drilling Commenced 9/15/80 Drilling Completed 9/20/80 Initial open flow 150 cu. ft.	bbls.	4 1/2 3 2	3360.7(3360.7	150 sx
Well was re-frac'ed on 8/1	9/81) usir	Liners Used Attach copy of one 967.5 MSC	cementing reco	ord.	: 2800; ATP: 28
RATE: 45MSCF/min; ISI:2200 Bridgeplug set at 2630; Pe	rf w/ 30	shots from	2546-257 T Bridge Plu		
Coal was encountered atFresh waterFee Producing SandGordon	et	tSalt V	Inche Water	es	Feet
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or	Water	* Remarks
Maxon Sand Big Lime B. Injun Sand Weir Sand Berea Sand Gordon Sand	1681 1711 1850 2132 2324 2552	1694 1774 1978 2194 2328 2576		Al	CEIVED UG 3 1 1981
NOTE: No logs or samples we	re taken ab	ove these dep	ths. 140 \ 03	WVD	EPARTMENT OF MINES
	(0	over)			

^{*} Indicates Electric Log tops in the remarks section.

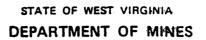
Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
	. •				•	
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			:			
					wat 28	

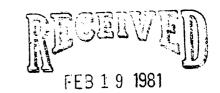
APPROVED L&M Petroleum, Co. Owner

Title) . Owner Asst.-Secy.

OG-10 Rev. - 9-71







OIL & GAS DIVISION

Oil and Gas Division

DEPT. OF MINES

Rotary_x

WELL RECORD

Quadrangle Shirley Permit No. 47-095-0846	5					Comb. x d Storage (Kind)
Company L&M Petrole	eum Co.	,	Casing and	Used in	Left ·	Cement fill up
Address Rt. #1. Box	18-B. Marietta	OH	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Farm Earl & Clyde Wa	arner Acr	es260				
Location (waters)Big	Run		Size			
Well No1	Ele	v <u> 818 </u>	20-16			
District McElroy	CountyTyl	er	Cond.			1
The surface of tract is ow	ned in fee by		13-10"			-
Same as above			9 5/8			
Address Box 29, Alma	a. WV		8 5/8	248		<u> </u>
Mineral rights are owned l	Same as abo	ve	7			
Address			5 1/2			1
Drilling Commenced	9/15/80		4 1/2	3360.7	3360.7	150 sx
Drilling Completed Initial open flow 150 Final production 80	9/20/80		3			1
Initial open flow 150	cu. ft	bbls.	2			
Final production 80	cu ft. ner day	bbls.	Liners Used			
Final production 80 Well open 6	hrs before test	RP.				
Well treatment details: Frac well on 1/8/ Well is scheduled	81 using 14 bbl	water and		_		at 2800 psi
					,	
		· ·		.80 M	CF	
•					DTD 36	50)>
					LID No	t Recorded
Coal was encountered at	Fee	مد 1 ه	Salt V	Water		Feet
Formation Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas		* Remarks
Maxon Sand Big Lime B. Injun Sa Weir Sand Berea Sand Gordon Sand		1681 1711 1850 2132 2324 2552	1694 1774 1978 2194 2328 2576			
	ID	3650		0		•
				3450	•	
sa Tanàna						
					•	
and other section in	•					
1 M 1 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M					•	

Signed by _

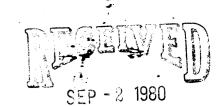
BLANKET BOND



STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

Oil and Gas Division



OIL AND GAS WELL PERMIT APPLICATION & GAS DIVISION DEPT. OF MINEE

Deputy Director - Oil & Gas Division GENTLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated April 1 1971 by Warner made to Royal Resources and recorded on the day of April 1 1971 by April 1 1 1971 by April 1 1971 by April 1 1			
Surface Owner Earl & Clyde Warner, et ux Address Box 29, Alma, WV Address Box 29, Alma, WV Address Rt. #1, Marietta, OH Address Rt.			THE DEPARTMENT OF MINES,
Address Earl & Clyde Warner McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County McElroy County Address Ent. #1, McElroy Elevation Ent. #1, McElr	25, 1980	DAT	
Address Earl & Clyde Warner McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County Quadrangle Shirley Address Ent. #1, Marietta, OH McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County McElroy County Address Ent. #1, Marietta, OH McElroy County McElroy County McElroy County Address Ent. #1, McElroy Elevation Ent. #1, McElr	troleum Co.	ner, et ux	Earl & Clyde Warner
Mineral Owner Earl & Clyde Warner Address		Addr	Box 29. Alma. WV
Address	yde Warner 260		Farl & Clude Warne
Coal Owner. Same as above Address. Oblighted Shirley County County County Shirley Address. THIS PERMIT MUST BE POSTED AT THE WELL SITE AND PRINTED TO BE NOTIFIED Phil Tracy of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not combenced by 5-5-81. Deputy Director Oil & Gas Division GENTLLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated April 1 19.71 by Earl Warner made to Royal Resources and recorded on the day of 19. in Tyler County, Book 181 Page 503 X NEW WELL DRILL DEEPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or have been notified as of the above shown respective address been notified as of the above shown respective address are with the mailing or delivery of this copy to the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named cor coal owners at their above shown respective address of the Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named cor coal owners at their above shown respective address of the Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named cor coal owners at their above shown respective address of the Code must be received by or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named con or coal owner at a the rabove shown respective address of th			
Address Coal Operator. None Coal Operator. None Coal Operator. None Operator. None Address THIS PERMIT MUST BE POSTED AT THE WELL SITE All privitions being in accordance with Chapter 22 of the W. Vo. Code, the location is hereby approved for drilling. This permit shall expire it operations have not complemed by 5-5-3 Deputy Director Oil & Gos Division GENTLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated April 1 1 19.71 by Earl Warner made to Royal Resources and recorded on the day of 19. in Tyler County, Book 181 Page 503 X NEW WELL DRILL DEFPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coor coal owners at their above shown respective address of content and the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia. Very truly yours, LEM Petroleum Co-Very truly yours, LEM Petroleum Co-	Rievation 818		Came an about
Coal Operator. None Address. THIS PERMIT MUST BE POSTED AT THE WELL SITE All pravirions being in accordance with Chapter 22 of the W. Vo. Code, the location is hereby approved for drilling. This permit shall expire it provisions have not commenced by 5-5-8. Deputy Director - Oil & Gas Division GENTLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lesse dated April 1 1971 by Earl Warner made to Royal Resources and recorded on the day of 19 in Tyler County, Book 181 Page 503 X NEW WELL DRILL DEEPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or have been notified as of the above date. The above named coal owners and/or operator are hereby notified that any objection they wish to make, or a to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were maided by registered mail, or delivered to the above named coal owners at their above shown respective address day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address Office and plat by the department of mines, to aid proposed location, the department shall forthwith issue to the well operator and the find of such plat, that no objections have been made by the coal operators of found the treb by the department of the third issue to the well operator at the filing of such plat, that no objections have been made by the coal operators of found thereto by the department and that the at the filing of such plat, that no objections have been made by the coal operators of found thereto by the department and that the at the set of the plat that not objecti	V Tuler		dress
Address. THIS PERMIT MUST BE POSTED AT THE WELL SITE All provirous being in accordance with Chapter 22 of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire it operations have not combenced by 5-5-9. Deputy Director - Oil & Gas Division GENTLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated April 1 19,71 by Earl Warner made to Royal Resources and recorded on the day of 19 in Tyler County, Book 181 Page 503 X NEW WELL DRILL DEEPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/o have been notified as of the above date. The above named coal owners and/or operator are hereby notified that any objection they wish to make, or a to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within the 100 copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coor coal owners at their above shown respective address are day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia. Very truly yours. L&M Petroleum Co. PLEASE SUBMIT COPIES OF ALL (Sign Name) ECONOMIC SURVEY Address of Well Operator West Virginia. Very truly yours. L&M Petroleum Co. Ohio 45750 State *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from a notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator at the filing of such plat, that no objections have been made by the coal operators of found thereto by the department and that the as the filing of such plat, that no objections have been made by the coal operators of found thereto by the department and that the as the coal ope			
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Deputy Director - Oil & Gas Division GENTLEMEN: The undetaigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated Warner made to Royal Resources and recorded on the day of many made to Royal Resources and recorded on the day of sold title thereto, (or as the case may be) under grant or lease dated April 1 1971 by Earl Warner made to Royal Resources and recorded on the day of sold title thereto, (or as the case may be) under grant or lease dated April 1 1971 by Earl Warner made to Royal Resources and recorded on the day of sold title thereto, (or as the case may be) under grant or lease dated April 1 1971 by Earl Warner made to Royal Resources and recorded on the day of sold title thereto, (or as the case may be) under grant or lease dated April 1 1971 by Earl Warner made to County, Book 181 page 503 X NEW WELL DRILL DEEPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/ohave been notified as of the above date. The above named coal owners and/or operator are hereby notified that any objection they wish to make, or a to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coor coal owners at their above shown respective address day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia. Very truly yours, L&M Petroleum Co. PLEASE SUBMIT COPIES OF ALL (Sign Name) Well Operator Well Operator Marietta City or Town Ohio 45750 State **SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from to notice and plat by the department and that the as the filing of such plat, that no objections have been made b	- Internation	TO BE N I expire i∯	This permit shall expire
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Depuly Director - Oil & Gas Division GENTLEMEN: The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas title thereto, (or as the case may be) under grant or lease dated Warner made to Royal Resources and recorded on the day of 19 in Tyler County, Book 181 Page 503 X NEW WELL DRILL DEEPER REDRILL FRACTURE OR ST OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969. The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or have been notified as of the above date. The above named coal owners and/or operator are hereby notified that any objection they wish to make, or a to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10). Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coor coal owners at their above shown respective address day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia. Very truly yours. LEM Petroleum Co. PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address of Well Operator WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY As Sireet Marietta ON Address Of Well Operator Well Operator Well Operator Siteet Marietta Cry or Town Ohio 45750 State *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from a the filing of such plat, that no objections have been made by the coal operators of found thin the tito by the department of mines, to said proposed location, the department shall forthwith issue to the well operator as the filing of such plat, that no objections have been made by the coal operators of pound thereto by the department and that the as the said proposed plat the plant that the said proposed location, the department of the department and that the as the said proposed plant and the said proposed locat		7	7.00
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	issue to the well operator a permit reciting	id proposed location, the depar	ice and plat by the department of mines, to said prop
	ie department and that the same is approved.	iniaut by the coal operators of	
47-095-0846	0846		
P\$RM	PERMIT NUMBER		
"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified sequirements."		equirements as set forth in a the specified semirements."	have read and understand the reclamation requirementer 22. Article 4. Section 12-b and will carry out the s

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

PROPOSED WORK ORDER TO	D_XDRILL	DEEPEN FI	RACTURE-STIMULATE
DRILLING CONTRACTOR: (I		RESPONSIBLE AGENT:	
NAME		NAME Richard	Hudson
ADDRESS		ADDRESS Parkers	burg, WV 26101
TELEPHONE		TELEPHONE 304	-422-7208
ESTIMATED DEPTH OF COMP	LETED WELL: 4500'	ROTARYX	CABLE TOOLS
PROPOSED GEOLOGICAL FOR	MATION: Devonian Sh	ale	
			DISPOSAL
			ODOTHER
TENTATIVE CASING PROGRA			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT LILL UP
20 - 16	DRILLING	WELL	OR SACKS - CUBIC FT.
13 - 10			.41
9 - 5/8			
8 - 5/8	250		125 sx
7			
5 1/2			
4 ½	TD	TD	400 sx
3			Pert, Top
Liners			Perf. Bottom
			Perf. Top Perf. Bottom
			Terr. Dottom
OF PLAT. TO DRILL DEEPER OR REDRII SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR ' MUST ALSO BE SUBMITTI TO FRACTURE STIMULATE: OIL AND/OR GAS WELL O BOND, PERMANENT PLAT OIL AND/OR GAS WELL O ING ORIGINAL PERMIT NU	OF OG - 1, \$100.00 PERMIT LL: OF OG - 1, SHOWING ORIGINATION OF COMMENT COMME	BY WHOM? BY WHOM? FEE, PERFORMANCE BO NAL PERMIT NUMBER AND PLAT AND TO RE JUNE 5, 1929, FIVE (5) CORD. ID/OR AFTER JUNE 5, 1929 BOND.	OPPERFORMANCE BOND. ON HE ORIGINAL WELL RECORD OPIES OG - 1, PERFORMANCE
Required forms must be file four (24) hours in advance.	d within ninety (90) days of co		
-			
The following waiver must hereof.	be completed by the coal oper	rator if the permit is to be is	sued within ten days of receipt
WAIVER: I the undersigned, Age this lease have examin	nt fored and place on our mine ma	Coal Company, Owner op this proposed well location	or Operator of the coal under
We the	Coal Company he complied with all rules and regu	ave no objections to said we lations in Articles 4, 5, and 7,	ll being drilled at this location, Chapter 22 of the West Virginia
		For	Coal Company
			Orthogal Tutle

FORM IV-38 (Affidavit of Plugging)

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



AFFIDAVIT OF PLUGGING AND FILLING WELL

OIL & GAS DIVISION

AFFIDAVIT SHOULD BE MADE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

None Coal Operator or Owner			Sill. Co., Inc. Name of Well Operation (%), Reno, Chio	ator	' 3
Address		1.00.00.	Complete Address		<u>ر</u>
		7-1	•		. 8 -
None			7 9,		02
Coal Operator or Owner			ELL AND LOCATION	~ .	
Address				_ Distr	1ct
•	** .	[]		Count	
Earl & Clyde Marner Et. Lease or Property Owne		<u>Tyler</u>		Count	у
• •		MELL NO "	Sarl Warner /1		
liddlebourne, MV Address		WLLE NO.			
		്രാം 7 - അംഗ്	Clyde Werner		Farm
STATE INSPECTOR SUPERVISING PL	LUGGING	Robert Lo) (, 0,101,		
	AFFID	AVIT			
SMIME OF IMAM WEDGENER					
STATE OF WEST VIRGINIA,	ss:				
County of <u>Ritchie</u>					
Hyle D. Porkins peing first duly sworn accordi		_ andRoy	B. Garner		
for L&M Patroleum, well op ing the above well, that said 19 5, and that the well wa	work was comm	enced on the	<u>ੁਰਜ਼ਰ</u> day of <u>ਹੋਵੜ</u>		
Sand or Zone Record	Filling Ma	terial	Plugs Used	Casing	
Formation			Size & Kind	CSG	C5 6
Bridge plug at 2630				PULLED	2000
2530-2300	Ceilent			100	2.8
2500-2000	Ge1				
2000-1050	Cement				
1850-1400 1400-1300	GeL Corrent		•		}
1300-320	Gel				
320-220	Cement				<u> </u>
220-50	Gel				
40-0	Johns				
			- ha -		
	!		3-5	26-8	5
Coal Seams			Description o		
			<u> </u>		
(Name)			7" pipe coment		
(Name) (Name)			the chice.		·
(Name)			above the gran		
and that the work of plug of <u>Jamiery</u> , 19 And further deponents said	ith not.	Kyle 73	March		t May
sworn to and subscribed before		Do	n 2 Pil	, .,	
			Motary Public		
My commission expires:					
4mmil 10. 199/			Permit No :/	2	1. 1. 1