

### CORRECTED COPY

IV-35 (Rev 8-81)



# State of Mest Nieginia

Department of Mines
Dil und Gas Division

Date 3/2/82					
Operator's					
Well No.	1				
Farm Terrell Starkey					
API No.	7 - 095 - 0783				

### WELL OPERATOR'S REPORT

OF

### DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

0				
WEIL TYPE: Oil x / Gas x / Liquid Injection (If "Gas," Production / Undergro	on/ Was	te Disposa	1///	.11~· /\
			P/ Sile	/)
IOCATION: Elevation: 855 Watershed				
District: Meade County	ryrer	_Quadrang1	e Middle	bourne
COMPANY L&M Petroleum Co.				
ADDRESS P.O. Box 89, Reno, OH 45773	Casing	Used in	<b>Ieft</b>	Cement
DESIGNATED AGENT David Clovis	Tubing	1		fill up Cu. ft.
ADDRESS Box 288, Parkersburg, WV 26101	Size			04. 20.
SURFACE OWNER Terrell Starkey	20-16 Cond.			
ADDRESS Rt. #1, Middlebourne, WV	13-10"			
MINERAL RIGHTS OWNER same as above	9 5/8			
ADDRESS	8 5/8	250	250	55 sx
OIL AND GAS INSPECTOR FOR THIS WORK	7			JJ GR
Phil Tracey ADDRESS Rt. 23, Alma, WV	5 1/2			
PERMIT ISSUED 1980	4 1/2	2813	2813	150 sx
DRILLING COMMENCED 6/9/80	3			
DRILLING COMPLETED 6/26/80	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
	<u> </u>			
GEOLOGICAL TARGET FORMATION Devonian Shall	.e	Dept	h 2230-	3451 feet
Depth of completed well 3440 feet 1	Rotary x	/ Cable	Tools_	
Water strata depth: Freshfeet;	Salt	feet		
Coal seam depths:	Is coal	being mine	d in the	area?
OPEN FLOW DATA				
Producing formation Devonian Shale	Pay	zone dept	h 2726-34	+51 feet
Gas: Initial open flow 150 Mcf/d	Oil: Ini	tial open	flow	Bb1/d
Final open flow 100 Mcf/d				Bb1/d
Time of open flow between initi	ial and fi	nal tests_	6 hou	rs
Static rock pressurepsig(surface	e measurem	ent) after	hour	s shut in
(If applicable due to multiple completion-				
Second producing formation	Pay	zone depti	1	feet
Gas: Initial open flow Mcf/d Final open flow Mcf/d	Oil: Ini	tial open :	Elow	Bbl/d
Final open flowMcf/d  Time of open flow between initial	oll: Fin	ar open flo	W	Bbl/d
Time of open flow between initi Static rock pressurepsig(surface	mesanzana	nar tests	how	AFY 31 1983
Journale	easm alg	ic, arter	nour	s shut in

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

Frac well 8/19/81 w/1027MSCF Nitrogen, BD:2700; ATP:2400; RATE:45MSCF/mi. ISI:2200; 5 Min: 2100

Perfs: Open Hole

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTON PELI	Including indication of all fres
77			and salt water, coal, oil and ga
Clay	1 0	25	
Red Rock	25	89	
Lime	89	113	
Sand & slate	113	125	
Slate	125	145	
Slate	145	170	
Red Rock	170	190	
Slate	190	200 .	
Lime	200	215	
Slate	215	255	
Red Rock	255	273	
Sand	273	290	
Red Rock & Shale	290	400	
Sand	400	440	
Slate	440	485	
Lime	485	521	
Red Rock	521	608	
Sand	608	632	
Slate	632	650	
Slate	650	700	
Shale	700	741	
Slate	741	773	
Sand	773	805	
Black Shale	805	840	
Slate	840	877	
Sand	877	910	
White slate	910	935	
Lime	935	952	
First Salt sand	952	1041	
Brwn. Shale Lime	1041	1056	
Black slate	1056	1085	
Sand	1085	1120	
Slate	1120 1146	1146	
Black slate		1199	
Lime	1199	1238	
and Salt Sand	1238 1250	1250 1293	
Slate	1293	1308	

(Attach separate sheets as necessary)

L&M Petroleum Co.

Well Operator

By: Jean Kettering Jan tilling

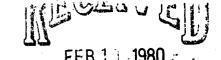
Date: 3/3/22

Note: Regulation 2.02(i) provides as follows:

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

FORMATION	TOP FEET	BOTTOM	FEET
Black lime Shale Sand Break Sand Shale Maxon Break Lime Sand Slate Shale lime Sand Shale Big Lime shale B. Injun Sand Shale Shale Siltstone	1308 1315 1383 1399 1405 1419 1450 1483 1509 1515 1563 1679 1704 1763 1778 1978 1978 2069 2100 2173 2195 2210 2250 2295	1315 1383 1399 1405 1419 1460 1483 1509 1515 1679 1653 1679 1763 1978 1978 1978 2069 2179 2190 2298 2298	
NO SAMPLES AVAILABLE Shale Sandstone Shale Shale Shale Shale Shale Siltstone Shale Siltstone Shale Siltstone Shale Siltstone Shale & Siltstone Gordon Devonian Shale	2400 2470 2490 2500 2550 2580 2610 2640 2660 2680 2690 2716 2726	2470 2490 2500 2550 2580 2610 2640 2660 2680 2716 2726 3451	0p Dev. undiff 345) 2298 1153





**DEPARTMENT OF MINES** 

# Oil and Gas Division

- OIL & GAS DIVISION DEPT. DE MINES

# OIL AND GAS WELL PERMIT APPLICATION -- ...

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TO THE DEPARTMENT OF MINES,	and the second control of the contro
	DATE February 7, 1980
Tampall Charles	
Sunta Owner	
Address Rt. 1, Middlebourne, WV	Address Rt. #1, Box 18-B, Marietta, OH
Mineral Owner Same as ahove	Farm Terrell Starkey Acres 43.
Addrest	Location (waters) Rush Eurk
	Well No 1 Elevation 8554
Address	District Meade County Tyler
Coal Operator None	Quadrangle Middlebourne
Address	· · · · · · · · · · · · · · · · · · ·
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
	INSPECTOR TO BE NOTIFIED Phillip Lee Tracy
for <u>drilling</u> . This permit shall expire if	O BE ROTTED THE THEFT
operations have not commenced by 10-13-80	ADDRESS P.O. Box 173-Dodd Street
مرار و	Middlebourne, WV 26149
Deputy Director - Oil & Gas Division	PHONE 758-4573
GENTLEMEN:	
19 79 in Tyler County, Book 220	and recorded on the 21 day of August
	•
NEW WELLDRILL DEEPER	
OIL AND GAS WELL ORIGINALLY DRILLE	D 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 hereby to make by Section 3 of the Code, must be received by, or	notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed by or coal owners at their above shown respective address mailing or delivery of this copy to the De	registered mail, or delivered to the above named coal operators  day
	Very truly yours. L & M Petroleum Co
PLEASE SUBMIT COPIES OF ALL	DAO CH
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name) Well Operator
WEST VIRGINIA GEOLOGICAL AND	
ECONOMIC SURVEY  Address	Phillip C. Hunter
P. O. BOX 879 of Well Ope	Pt #1 Roy 18-R Newport Pike
HURGARIUMN, WEST VINGINIA 20003	' ly or Town
AC-304 - 292-6331	Marietta, Ohio 45750
andres Too Spring Comment of the contract of t	State
in the second of	
notice and plat by the department of mines, to said proposed location,	Department of mines, with said period of ten days from the seccipt of the department shall forth. The issue to the well operator a permit reciting perators or found thereto to the department and that the same is approve
DIAMPET BENA	47-095-0783
DLAMAL I DOM	PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will earry out the specified requirements."

Signed by \_

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

PROPOSED WORK ORDER	TO X DRILL	DEEPEN FI	RACTURE-STIMULATE		
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT			
NAME		NAME Richard Hudson			
ADDRESS		ADDRESS Parkersh	ourg, WV		
TELEPHONE	Salana a sala a sala a sala sala sala sal	TELEPHONE 304-42	4-0876		
	MPLETED WELL: 2860'				
	ORMATION: Devonian Gord				
	IL GAS CO		DISPOSAL		
	RECYCLIN				
	•		ob		
TENTATIVE CASING PROGI	RAM:		•		
<u>.</u>			<u> </u>		
CASING AND TUBING	USED FOR .	LET IN	CEMENT FILL UP		
SIZE	DRILLING	WELL	OR SACKS - CUBIC I-T.		
<u>20 - 16</u> <u>13 - 10</u>			•		
9 - 5/8			in the		
8 - 5/8	250	250	Surface		
7	1		During the same of		
5 %					
4 %	TD	TD	400		
3			Perf. Top		
2 .			Perf. Bottom		
Liners			Perf. Top		
			Perf. Bottom		
OF PLAT.	IES OF OG - 1, \$100.00 PERMIT	r fee, performance b	OND AND PERMANENT COPY		
TO DRILL DEEPER OR RED			•		
WELLS DRILLED PRICE - MUST ALSO BE SUBMI	ES OF OG - 1, SHOWING ORIGIN OR TO 1929, A PERMANENT CO	NAL PERMIT NUMBER AN PPY OF THE PLAT AND T	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FILACTURE - STIMULAT	en e		·		
OIL AND/OR GAS WEL	L. L Originally drilled befor Lat and original well rec	RE JUNE 5, 1929, FIVE (5)	copies og - 1, performance		
OIL AND/OR GAS WEL	L ORIGINALLY DRILLED ON AN NUMBER, AND PERFORMANCE	D/OR AFTER JUNE 5, 192	9, FIVE COPIES OG -1, SHOW-		
Required forms must be	filed within ninety (90) days of c	ompletion for bond release.	Inspector to be notified twenty-		
four (24) hours in advan	oce.	•			
	•				
			•••		
The following waiver methoreo:	ust be completed by the coal ope	rator if the permit is to be	issued within ten days of receipt		
WAIV: R: I the undersigned.	Agent for	Coal Company Owner	• • •		
	mined and place on our mine mi				
We the	Coal Company )	have no objections to said v	vell being drilled at this location,		
Code	has complied with all rules and regu	nations in Articles 4, 5, and	7, Chapter 22 of the West Virginia		
	•	•••	•• •• •• •• ••		
	•		or Coal Company		
	• • •				

Official Title