



(Rev 8-81) OIL & GAS DIVISION
DEPT. OF MINES



## State of Mest Airginia Pepartment of Mines

Bepartment of Mines

Bil and Gas Aivision

Date	5-3	1-84	
Opera	tor'	S	
Well	No.	Garrison	#3
Farm	John	Garrison	
API N	<b>10.</b> 04	7 - 095	<del>-</del> 0929

## WELL OPERATOR'S REPORT

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

WEIL TYPE: $0il_X$ / $Gas_X$ / Liquid Injection (If "Gas," Production / Underground	ind Storag	e/ Deet	/ / Sha	11 <u>ow_x_</u> /)
LOCATION: Elevation: 961' Watershed St District: Meade County Tyler	igar Creek	Quadrangle	<u>Middlebo</u>	urne 7.5'
COMPANY Oil Industries Ltd. Inc.				
ADDRESS 1602 Grand Central Avenue, Vienna, WV	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT C.R. Allen	Tubing	Drilling	in Well	Cu. ft.
ADDRESS 1602 Grand Central Avenue, Vienna, WV	Size			
SURFACE OWNER Stanley Shultz	20-16 Cond.			
ADDRESS Wick, WV	13-10"			
MINERAL RIGHTS OWNER John Garrison	9 5/8			
ADDRESS P.O. Box 344, Parkersburg, WV	8 5/8	320	320	To . Surface
OIL AND GAS INSPECTOR FOR THIS WORK Robert General Delivery	7			
Lowther ADDRESS Middlebourne, WV	5 1/2			
PERMIT ISSUED 7-20-81	4 1/2	4176	4176	To Surface
DRILLING COMMENCED 2-22-82	3			
DRILLING COMPLETED 2-27-82	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Devonian Shale		Der	oth 4000	feet
Depth of completed well 4176 feet	Rotary	x_/ Cab	le Tools_	
Water strata depth: Fresh - feet;				
Coal seam depths:	_ Is coa	l being mi	ned in th	e area? No
OPEN FLOW DATA				
Producing formation Devonian Shale	P	ay zone de	pth <u>3422</u>	<u>-3478</u> <b>feet</b>
Gas: Initial open flow 1 830 Mcf/d	Oil: I	nitial ope	n flow	1 Bbl/d
Final open flow 40 Mcf/d	F	inal open	flow	2 Bb1/d
Time of open flow between ini				
Static rock pressurepsig(surfa	ce measur	ement) aft	erh	ours shut in
(If applicable due to multiple completion				
Second producing formation	F	ay zone de	pth	feet
Gas: Initial open flow Mcf/d	Oil: I	nitial ope	n flow	Bb1/d
Final open flowMcf/d	Oil: F	inal open	flow	Bbl/d
Time of open flow between in	itial and	final test	.s	hours
Static rock pressurepsig(surface	ce measure	ement) afte	erh	ours shut in
				reverse side

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

Perf: 3422-3478 Up Dev. undiff. (401)
Frac with N2

#### WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale	Surface	1804	
Big Lime	1804	1870	
Shale	1870	1886	
Big Injun	1886	2052	
Pocono Shale	2052	2408	
Berea Sandstone	2408	2412	
Shale and Silt	2412	2830	
Gordon Sandstone	2830	2844	
Devonian Shale	2844	4176	thuron
			4176 2412 1764
			•.
• • • • • • • • • • • • • • • • • • •			

(Attach separate sheets as necessary)

Oil Industries Ltd.	. Inc. o.
Well Operator	
	11//
By: of W.	199
Date:	

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 chal, encountered in the drilling of a well."





#### DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

### Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE July 16, 1981	
Surface Owner Stanley Schultz		
Address Wick, West Virginia	THOUSETTES LEO	
Mineral Owner John M. Garrison		
Address P. O. Box 344, Parkersb	ACIG.	271 23
Coal Owner		0.61
A d-l	Elevation	n 961
	District Meade County  Quadrangle Middlebourne	Tyler
Address		
MIT MUST BE POSTED AT THE WELL SITE		
isions being in accordance with Chapter 22,		
W. Va. Code, the location is hereby approved	INSPECTOR	
drilling . This permit shall expire if	TO BE NOTIFIED Philip L. Tracy	7
ns have not commenced by 3-28-8/2	Appropriate Dt. #2 23	
e I will	ABRIES NO ZE	320
ty Director - Oil & Gas Division	PHONE 753-4573	
BENTLEMEN:		
The undersigned well operator is antitled to	1	
The undersigned well operator is entitled to	irill upon the above named farm or tract of land for oil and ga	s, having fee
atte thereto, (or as the case may be) under gra	nt or lease dated June 12, 1981 by Voc	501
Resources made to John M.	of lease dated et al. 1981 by Ves	501
Resources made to John M.	of lease dated et al. 1981 by Ves	501
Resources made to John M.  1981, in Tyler County, Book	nt or lease dated et all 12, 1981 by Ves Garrison, and recorded on the 16th day of	sel June
Resources made to John M.  981 in Tyler County, Book  XX NEW WELL DRILL D	nt or lease dated tale 12, 1981 by Ves  Garrison, and recorded on the 16th day of  231 Page 102  EEPER REDRILL FRACTURE OR ST	sel June
Resources made to John M.  1981 in Tyler County, Book  XX NEW WELL DRILL D  OIL AND GAS WELL ORIGINALI	The or lease dated the state of	Sel June TIMULATE
Resources made to John M.  1981 in Tyler County, Book  XX NEW WELL DRILL D  OIL AND GAS WELL ORIGINALI  The enclosed plat was prepared by a registere	The or lease dated the state of	Sel June TIMULATE
Resources made to John M.  1981 in Tyler County, Book  XX NEW WELL DRILL D  OIL AND GAS WELL ORIGINALI  The enclosed plat was prepared by a registere ave been notified as of the above date.	nt or lease dated tal all by Ves Garrison, and recorded on the 16th day of 231 Page 102  EEPER REDRILL FRACTURE OR STORY DRILLED BEFORE JUNE 5, 1969.  d engineer or licensed land surveyor and all coal owners and/or	Sel June TIMULATE or operators
Resources made to John M.  1981 in Tyler County, Book  XX NEW WELL DRILL D  OIL AND GAS WELL ORIGINALI  The enclosed plat was prepared by a registere ave been notified as of the above date.	Garrison, and recorded on the 16th day of 231 Page 102  EEPER REDRILL FRACTURE OR STORY DRILLED BEFORE JUNE 5, 1969.  d engineer or licensed land surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and/or hereby restricted to the surveyor and all coal owners and surveyor hereby restricted to the surveyor and all coal owners are surveyor and all coal owners and surveyor hereby restricted to the surveyor and all coal owners are surveyor	Sel June FIMULATE or operators
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\*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.

ELANKET BOND

"I have read and understand the reclamation requirements as set forth in Chapter 22. Afticle Section less and will carry out the specified requirements."

Signed by

47-095-0929

PERMIT NUMBER



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

	DRILL		ED A CELID D. COMPAGES 1
PROPOSED WORK ORDER TO DRILLING CONTRACTOR: (II	Known)	D DODONOVE -	
NAME Vessel Resourc	es Corp.		
ADDRESS <u>1602 Grand</u>	Central Ave, Vi	enna ADDRESS 1603	Allen 2 Grand Central Ave.,
ESTIMATED DEPTH OF COMPL	ETED WELL: 4000	ROTARY VV	CABLE TOOLS
HOLOGICAL LOIGH	MATION: Devontan S.	naie	
TYPE OF WELL: OIL_	GAS	COMP XX	AGE DISPOSAL
· · · · · · · · · · · · · · · · · · ·	PECVO	STOR	AGE DISPOSAL
	MISC (C)	WATER	FLOODOTHER
TENTATIVE CASING PROGRAM	: :		
CASING AND TUBING SIZE	USED FOR	LITTIN	CEMENT THE UP
0 - 16	DRILLING	WFLL.	OR SACKS - CUBIC FT.
3 - 10	The state of the s		
- 5/8			
- 5/8	200	200	
			Cemented to Surfac
<i>Y</i> <sub>1</sub>	The state of the s		as Signed
<i>V</i> <sub>2</sub>		T D E-+ 4000	by Shele 1501
		L.D. EST. 4000	
			Perf. Top Perf. Bottom
ners			Perf. Top
	n dag og maladistropasing glassigning at en ga verking dargere kraft for the say relatives sayable endere en e		Perf. Bottom
DRILL:	AREA? NO	BY WHOM?	
O DRILL:  SUBMIT FIVE (5) COPIES ( OF PLAT.  DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	OF OG 1, \$100.00 PERM	BY WHOM?	BOND AND PERMANENT COPY
D DRILL:  SUBMIT FIVE (5) COPIES ( OF PLAT.  D DRILL DEEPER OR REDRILL  SUBMIT FIVE (5) COPIES OF  WELLS DRILLED PRIOR TO  MUST ALSO BE SUBMITTED  FRACTURE - STIMULATE:	AREA? NO  DF OG 1, \$100.00 PERM  F OG 1, SHOWING ORIGO 1929, A PERMANENT CO.	BY WHOM?  IT FEE, PERFORMANCE  INAL PERMIT NUMBER A	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD
SUBMIT FIVE (5) COPIES OF PLAT.  Description of Plat.  Description of Plat.  Description of Plat.  SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED.  Description of Practure - Stimulate:  OIL AND/OR GAS WELL ORIBOND, PERMANENT PLAT AMERICAN.	AREA? NO  OF OG 1, \$100.00 PERM  F OG 1, SHOWING ORIGO 1929, A PERMANENT CO  GINALLY DRILLED BEFO AND ORIGINAL WELL REC	BY WHOM?  BY WHOM?  BY WHOM?  BY WHOM?  BY WHOM?	ROND AND PERMANENT COPY AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD  O COPIES OG - 1, PERFORMANCE
SUBMIT FIVE (5) COPIES OF PLAT.  Defill deeper or redrill submit five (5) copies of wells drilled prior to must also be submitted of fracture - stimulate:  Of and/or gas well oribond, permanent plat a oil and/or gas well oribond, permanent plat a	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGINATED ORIGINALLY DRILLED ON A	BY WHOM?  BY WHOM!  BY WHO	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD
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SUBMIT FIVE (5) COPIES OF PLAT.  DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORI BOND, PERMANENT PLAT A OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM Required forms must be filed of	AREA? NO  OF OG 1, \$100.00 PERM  F OG 1, SHOWING ORIGO 1929, A PERMANENT CO  AND ORIGINAL WELL RECO GINALLY DRILLED ON A BER, AND PERFORMANCE within ninety (90) days of co	BY WHOM?  BY WHOM!  BY WHO	BOND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD  O COPIES OG - 1, PERFORMANCE
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SUBMIT FIVE (5) COPIES ( OF PLAT.  DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED  FRACTURE - STIMULATE: OIL AND/OR GAS WELL ORING ORIGINAL PERMIT NUM Required forms must be filed of four (24) hours in advance.  The following waiver must be eof.	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGON 1929, A PERMANENT OF THE PROPERTY OF	BY WHOM?  BY WHOM!  BY WHO	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD  O) COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-  e. Inspector to be notified twenty-  e issued within ten days of receipt
SUBMIT FIVE (5) COPIES OF PLAT.  DEFINITE OF PLAT.  DEFINITE OF REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORISED OF GAS WE	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGO OF 1929, A PERMANENT CO  OF OG 1, SHOWING ORIGO OF OG 1, \$100.00 PERM OF	BY WHOM?  BY WHOM!  BY WHO	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD  COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-  Inspector to be notified twenty-  e issued within ten days of receipt
SUBMIT FIVE (5) COPIES (OF PLAT.  Defill deeper or redrill submit five (5) copies of wells drilled prior to must also be submitted of fracture - stimulate:  OIL AND/OR GAS WELL ORI BOND, PERMANENT PLAT A OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM Required forms must be filed four (24) hours in advance.  The following waiver must be reof.  IVER: I the undersigned, Agent this lease have examined	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGINALLY DRILLED BEFORMANENT CONTROLLY DRILLED ON A BER, AND PERFORMANCE within ninety (90) days of completed by the coal operand place on our mine mand place our mine mand place our our mine mand place our pl	BY WHOM?  BY WHOM!  BY WHO	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD  OF COPIES OG - 1, PERFORMANCE  929, FIVE COPIES OG - 1, SHOW-  e. Inspector to be notified twenty-  er or Operator of the coal under  ation.
SUBMIT FIVE (5) COPIES OF PLAT.  Defile Deeper or redrile Submit five (5) copies of Wells Drilled Prior to Must also be submitted of Fracture - Stimulate:  Of And/or gas well oring bond, permanent plat a oil and/or gas well oring original permit num required forms must be filed four (24) hours in advance.  The following waiver must be reof.  IVER: I the undersigned, Agent this lease have examined we the	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGO  OF OG 1, \$100.00 PERM  OF OG 1	BY WHOM?  BY WHOM!  BY WHO	ROND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  THE ORIGINAL WELL RECORD  COPIES OG: 1, PERFORMANCE  929, FIVE COPIES OG: 1, SHOW-  Inspector to be notified twenty-  e issued within ten days of receipt
SUBMIT FIVE (5) COPIES OF PLAT.  Defile Deeper or redrile Submit five (5) copies of Wells Drilled Prior to Must also be submitted of Fracture - Stimulate:  Of And/or gas well oring bond, permanent plat a oil and/or gas well oring original permit num required forms must be filed four (24) hours in advance.  The following waiver must be reof.  IVER: I the undersigned, Agent this lease have examined we the	AREA? NO  OF OG 1, \$100.00 PERM  OF OG 1, \$100.00 PERM  OF OG 1, SHOWING ORIGO  OF OG 1, \$100.00 PERM  OF OG 1	BY WHOM?  BY WHOM!  BY WHO	e. Inspector to be notified twenty-

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