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MARIETTA OHO

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PARKERSBURG W. VA.



IV-35 (Rev 8-81) (Rev 8-81)

> MAY 1 7 1992 OIL AND GAS DIVISION WOSHARIMENT OF MINES

State of Mest Nirginia Pepartment of Mines Gil and Gas Division

Date 4/29/82 Operator's							
	s						
Well No	#3						
Farm(	O. JOHNSON						
API No. 4	7 - 107	- 1169					

### WELL OPERATOR'S REPORT

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

WEIL TYPE: Oil xx / Gas xx / Liquid Injection (If "Gas;" Production / Undergrou	n/Wast und Storag	e Disposa ge/ Deeg	l/ p/ Sha	llow <u>+</u> /)
LOCATION: Elevation: 1001' Watershed Bu	ıll Run			
District: Union County Wood			Willow 1	Island
		•		
COMPANY Energy Unlimited. Inc.				
ADDRESS 427 Second St. Marietta, OH 45750	Casing	Used in	Tof+	Cement
DESIGNATED AGENT Dave Clovis	Casing Tubing	Drilling		fill up Cu. ft.
ADDRESS Union Trust Bld. P'Burg, WV 26101	Size	DITITING	TII WETT	Cu. Ic.
SURFACE OWNER O. Johnson	20-16			
ADDRESS Rt. #2 Waverly, WV 26184	Cond.			
MINERAL RIGHTS OWNER Same	13-10"		•	
ADDRESS	9 5/8	350	250	100
OIL AND GAS INSPECTOR FOR THIS WORK Paul	8 5/8	250	250	100sx
Goodnight ADDRESS Smithville, WV	7			
PERMIT ISSUED 7/30/81	5 1/2			_
DRILLING COMMENCED 8/27/81	4 1/2	2846	2846	250sx
DRILLING COMPLETED 9/5/81	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used	·		
GEOLOGICAL TARGET FORMATION Gordon		Dept	h <sub>2730-276</sub>	54feet
Depth of completed well 2893 feet F	Rotary X	X / Cable	e Tools_	
Water strata depth: Fresh 120 feet;				•
Coal seam depths: none	Is coal	being mine	ed in the	area2 no
OPEN FLOW DATA				
Producing formation Berea	Pay	zone dept	h 2364-23	370 'fe <b>et</b>
Gas: Initial open flow 0 Mcf/d	Oil: Ini	tial open	flow	0 Bbl/d
Final open flow 15M Mcf/d	Fin	al open fl	Low	LO Bb1/d
Time of open flow between initial	ial and fi	nal tests	24 ho	urs
Static rock pressure 450 psig(surface	e measurem	ent) after	12 hou	rs shut in
(If applicable due to multiple completion-	)			
Second producing formation	Pay	zone dept	-h	feet
Gas: Initial open flowMcf/d	Oil: Ini	tial open	flow	Bbl/d
Final open flow Mcf/d	Oil: Fin	al open fl	Low	Bbl/d
Time of open flow between initi	ial and fi	nal tests	ho	urs
Static rock pressurepsig(surface	measureme	nt) after	hou	rs shut in
<u> </u>	MAY 2 4 198	2 (Contin	zie on rei	verse side)

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

FM 50#M sand in 900 bbl H2O thru 14 - .5 holes from 2344' to 2351'

WELL LOG

			T	REMARKS :
ECONOMICAL COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	
FORMATION COLOR	MARD OR SOFT	TOP PEEL	BOTTON TELL	and salt water, coal, oil and gas
soil	soft	0	15	
shale	soft	15	60	
sand	hard	60	75	
shale	soft	75	120	
sand	hard	120	146	freshwater
sandy-shale	shale	146	287	
sand	hard	287	335	
shale	soft	335	450	
sand	hard	450	492	
silty-shale	soft	492	515	
sand	hard	515	560	
shale	soft	560	743	
sand	hard	743	780	
shale	soft	780	967	
sand	hard	967	1002	,
shale	soft	1002	1123	
sand	hard	1123	1138	
sandy-shale	soft	1138	1165	
sand	hard	1165	1184	
shale	soft	1184	1410	:
Salt Sand	hard	1410	1500	salt water
shale	soft	1500	1688	,
Maxton	hard	1688	1774	
shale	soft	1774	1780	
Keener	hard	1780	1804	salt water
shale	soft	1804	1809	
Big Injun	hard	1809	2028	salt water
silty shale	medium	2028	2302	·
Wells Stray	medium	2302	2305	little gas
shale	soft	2305	2364	
Berea	hard	2364	2370	show of gas & oil
silty shale	medium	2370	2479	
Gantz	medium	2479	2484	little gas
silty shale	medium	2484	2607	
Thirty-Foot	medium	2607	2616	little gas
silty shale	medium	2616	2730	N
Gordon	medium	2730	2764	show of gas & oil
silty shale	medium	2764	2893	T. D. 2893'

(Attach separate sheets as necessary)

Energy Unlimited Douglas M. Galloway Date: 4/29/82

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 the logical state of the continuous continuo

Producing Sand



#### STATE OF WEST VIRGINIA **DEPARTMENT OF MINES**

### RECEIVED

OCT 13 1981

## Oil and Gas Division

### OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Rotary X WELL **RECORD** Oil Cable\_ Gas\_ Quadrangle Willow Island Recycling Comb. X Water Flood\_\_ 47-107-1169 Storage\_ Permit No.\_ Disposal\_ (Kind) Energy Unlimited, Inc. Company\_ Casing and Used in Left Cement fill up 427 Second St. Marietta, OH 45650 Address\_ Drilling Tubing in Well Cu. ft. (Sks.) Johnson 160 Bull Run Location (waters) \_ Size 1001' Well No. #3
District Union #3 Elev. 20-16 Wood County\_ Cond. The surface of tract is owned in fee by. 13-10 9 5/8 8 5/8 250 100 sx Mineral rights are owned by\_ 0. Johnson Address Rt. #2 Waverly, WV 26184 5 1/2 8/27/81 4 1/2 Drilling Commenced\_ 2846.37 250 sx 9/5/81 Drilling Completed\_\_ Initial open flow \_ .cu. ft. bbls. Final production 15M \_cu. ft. per day 10 Liners Used (zldd\_ Well open 24 . \_hrs. before test 450 Well treatment details: Attach copy of cementing record. FW 50M# sand in 900 bbl H20 thru 14 - .5 holes from 2344' to 2351' Coal was encountered at none Feet\_ 120' Fresh water\_ Feet .

Formation	Color I	iard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
shale sand	gray	soft		1410'		top logged interval
shale sand	white gray	hard soft	1410' 1500'	1500' 1688'	salt water	Salt Sand
shale sand	white gray	hard soft	1688' 1774'	1774' 1780'	salt water	Maxton
shale sand	white gray	hard soft	1780' 1804'	1804' 1809'	salt water	Keener
silty shale shaly sand		hard medium	1809 ' 2028 '	2028 ' 2302 '	salt water	Big Injun
shale sand	gray gr-black		2302' 2305'	2305 <b>'</b> 2364 <b>'</b>	little gas ,	Wells Stray
silty shale	white	hard	2364'	2370'	show of gas & oil	Berea
shaly sand silty shale	gray gray	medium medium	2370' 2479'	2479 ° 2484 °	little gas	Gantz
siltstone silty shale	gray	medium medium	2484 <b>'</b> 2607 <b>'</b>	2607 <b>'</b> 2616 <b>'</b>	little gas	Thirty-Foot
siltstone	gray gr-brown	medium medium	2616' 2730'	2730 <b>'</b> 2764 <b>'</b>		Gordon
silty shale	gray	medium	2764'	2893'	& oil	T.D. 2893'

(over)

Salt Water.

Depth \_

Berea

Feet .

2364' to 2370'

<sup>•</sup> 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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Date	C.f. 8. 11.81
APPROVED Exig	Owner
By	70100
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### Oil and Gas Division

OIL & GAS DIVISION

## OIL AND GAS WELL PERMIT APPEIENTION MINES

Charleston, W. Va.	DATE	July 2				
Surface Owner Oris Johnson	Company Energy Unlimited, Inc.			c		
D# #2 Warrarly WM 26184	Address	427 Seco	nd St.	Marie	tta. (	OH 45750
same	Farm	Johnson			Acres _	93
Mineral Owner	Location (	waters)	Bull R	un		
Address same	Well No	#3			Elevatio	n 1001'
Coal Owner Same	District	Union			.County	Wood
Address none		Willow	Islan	d		
Coal Operator						
Address						
PERMIT MUST BE POSTED AT THE WELL SITE						
rovisions being in accordance with Chapter 22,	•					
e W. Va. Code, the location is hereby approved	INSPECTOR	Dou	1 Cood	niaht		
drilling . This permit shall expire if	TO BE NOTIF	TED Pau	II GOOG	nigne		
ations have not commenced by 4-4-82	ADDRESS S	mithvill	e, WV			
more not commenced by						
the Duralle	PHONE4	77–3660				
eputy Director - Oil & Gas Division					2	
GENTLEMEN:		_				
The undersigned well operator is entitled to dr	ill upon the above hamed	, 101111 Ot w	act or a			,, <b>.</b>
the themte (or as the case may be) under gran	t or lease dated <u>Marc</u>	h 9,	the1	9 <u>68</u> by 3th	_ day (	of March
title thereto, (or as the case may be) under gran counita Johnson made to J. E. Olds  19_68, in Wood County, Book	t or lease datedMarc and r 81	ch 9, ecorded on	the	.541	_ day (	of Harch
title thereto, (or as the case may be) under gran  Sounita Johnson made to J. E. Olds  19 68 in Wood County, Book  XX NEW WELL DRILL DE	t or lease datedMarcand r81	ch 9, ecorded on 19	theFF	.541	_ day (	of Harch
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title thereto, (or as the case may be) under gran  Sounita Johnson made to J. E. Olds  19 68 in Wood County, Book  XX NEW WELL DRILL DE  OIL AND GAS WELL ORIGINALL  The enclosed plat was prepared by a registered have been notified as of the above date.	t or lease dated Marco and r 541 Page 41 EEPER RED Y DRILLED BEFORE J d engineer or licensed lan	ch 9, ecorded on  9  RILL UNE 5, 196  and surveyor	theFF	COAL OWE	day (	STIMULAT
title thereto, (or as the case may be) under gran  Sounita Johnson made to J. E. Olds  19_68 in Wood County, Book  XX NEW WELL DRILL DE  OIL AND GAS WELL ORIGINALL  The enclosed plat was prepared by a registered have been notified as of the above date.  The above named coal owners and/or operator to make by Section 3 of the Code, must be received.	t or lease dated Marc and r 541 Page 41  EEPER RED Y DRILLED BEFORE J d engineer or licensed lan are hereby-notified that yed by, or filed with the	ecorded on  9  RILL  UNE 5, 19  any objection	FF and all on they we to f Mine	Coal own	day of E OR States and make, on ten (10	STIMULAT
title thereto, (or as the case may be) under gran    J. E. Olds	and r  541 Page 41  EEPER RED  Y DRILLED BEFORE June  d engineer or licensed language hereby-notified that wed by, or filed with the remailed by registered manddress.	ch 9, ecorded on 19  RILL UNE 5, 196 and surveyor any objection Department ail, or delive day	FF and all on they we for Mine ered to the	coal own	day of E OR Series and ten (10 mained of before	STIMULAT  //or operator are requir  // days. *
title thereto, (or as the case may be) under gran    J. E. Olds	and r  541 Page 41  EEPER RED  Y DRILLED BEFORE June  d engineer or licensed language hereby-notified that wed by, or filed with the remailed by registered manddress.	ch 9, ecorded on 19  RILL UNE 5, 196 and surveyor any objection Department ail, or delive day	FF and all on they we for Mine ered to the	coal own	day of E OR Series and ten (10 mained of before	STIMULAT  //or operator are requir  // days. *
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47-107-1169

BLANKET BOND

\_PERMIT NUMBER

and the well operator authorized to proceed.

Signed by

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article of Section 12-6 and will carry out the specified requirements."

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

PROPOSED WORK ORDER TO	XX DRILL	DEEPEN	_ FRACTURE-STIMULATE			
DRILLING CONTRACTOR: (If		RESPONSIBLE AGE	RESPONSIBLE AGENT: NAME David C. Clovis			
NAME N/A		NAMEDavid (				
	·	ADDRESS Union	Trust Bldg., P'Burg, WV			
TELEPHONE			-4403			
ESTIMATED DEPTH OF COMP	1575D WELL. 2800'	ROTARY	ROTARY X CABLE TOOLS			
PROPOSED GEOLOGICAL FOR	Gordon	_ 100111111				
PROPOSED GEOLOGICAL FOR	MATION:	- COMB X STORA	AGE DISPOSAL			
TYPE OF WELL: OIL_			FLOODOTHER			
TENTATIVE CASING PROGRA						
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.			
20 - 16						
13 - 10						
9 - 5/8						
8 - 5/8 X	250'	250'	to surface			
7						
5 ½			200 godka or na romire			
4 ½ X	TD	TD	280 sacks or as require			
3			Perf. Bottom			
Liners			Perf. Top			
Daily 1			Perf. Bottom			
OF PLAT.  TO DRILL DEEPER OR REDRI SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT  TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL ( BOND, PERMANENT PLA OIL AND/OR GAS WELL ( ING ORIGINAL PERMIT N	ILL: OF OG - 1, SHOWING OR TO 1929, A PERMANENT ED. ORIGINALLY DRILLED BE T AND ORIGINAL WELL I ORIGINALLY DRILLED ON UMBER, AND PERFORMAN ed within ninety (90) days	GIGINAL PERMIT NUMBER COPY OF THE PLAT AND FORE JUNE 5, 1929, FIVE RECORD.  I AND/OR AFTER JUNE 5, ICE BOND.	E BOND AND PERMANENT COPY  AND PERFORMANCE BOND. ON  ID THE ORIGINAL WELL RECORD  (5) COPIES OG - 1, PERFORMANCE  1929, FIVE COPIES OG - 1, SHOW  ase. Inspector to be notified twenty-			
. The following waiver must thereof.	be completed by the coal	operator if the permit is to	be issued within ten days of receipt			
	gent forined and place on our mine		wner or Operator of the coal under ocation.			
		•	id well being drilled at this location,			
			and 7, Chapter 22 of the West Virginia			
•			For Coal Company			

Official Title