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Beparlment of Mines
Oil und Gas Zivision

Date	August	19,	1982	
Operation				
Well No	o. <u>Hale</u>	# ]		
Farm Ha	Le			
API No.	47 -	105	***	0982

# WEIL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

#### LL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal (If "Gas," Production X / Underground Storage / Deep / Shallow X /) CATION: Elevation: 646 Watershed Lee Run Quadrangle Elizabeth 7.5 District: Newark County Wirt PANY Rimrock Production Corporation Cement DRESS 4424 "B" Emerson Avenue, Parkersburg, WV Used in Left Casing fill up SIGNATED AGENT Robert L. Murdock Drilling in Well Cu. ft. Tubing DRESS 4424 "B" Emerson Avenue, Parkersburg, WV Size 20-16 RFACE OWNER John Hale Cond. DRESS Rt. 3 Elizabeth, WV 13-10" NERAL RIGHTS OWNERJohn Hale 9 5/8 240 240 DRESS Rt.3 Elizabeth, WV 8 5/8 L AND GAS INSPECTOR FOR THIS WORK DEO Mace 2185 2185 130 sks 7 ADDRESS Rt. 1 Box 5, Sandridge, WV 5 1/2 RATT ISSUED 4 1/2 5270 5270 260 ska ILLING COMMENCED July 23, 1982 3 HLING COMPLETED July 29, 1982 APPLICABLE: PLUGGING OF DRY HOLE ON NITINUOUS PROGRESSION FROM DRILLING OR Liners WORKING. VERBAL PERMISSION OBTAINED used Depth 2197-5400 feet DLOGICAL TARGET FORMATION Devonian Shale feet Rotary X / Cable Tools Depth of campleted well 5400 Water strata depth: Fresh 310 feet; Salt 550 feet Is coal being mined in the area?NO Coal seam depths: NONE EN FLOW DATA De berg Producing formation Devonian Shale Pay zone depth 2650-5220 feet Gas: Initial open flow 311 Mcf/d Oil: Initial open flow 0 Rbl/d Final open flow 10 Final open flow 108 Mcf/d Time of open flow between initial and final tests 24 hours Static rock pressure 850 psig(surface measurement) after 24 hours shut in (If applicable due to multiple completion--) Second producing formation\_ Pay zone depth feet Bbl/d Mcf/d Oil: Initial open flow Gas: Initial open flow Final open flow Mcf/d Oil: Final open flow Time of open flow between initial and final tests hours 18 1982

Static rock pressure \_\_\_\_\_psig(surface measurement) after \_\_\_\_ hours shut in

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

Stage 1 \( \frac{4630-5220}{800,000 \text{ SCF N}\_2} \) 18 holes

Stage 2 \( \frac{3840-4506}{770,000 \text{ SCF N}\_2} \) 20 holes

Fluxer = Jain - Angola

Stage 3 2650-3770 28 holes upper Devouran under to Haron 800,000 SCF N2

### WELL LOG

REMARKS Including indication of a and salt water, coal, oil  Soil  Sandstone and Shale  Sandstone and Siltstone  Sandstone and Siltstone  Sandstone, Shale and Lime  Sandstone and Shale  Sandstone and Siltstone  Sandstone and Siltstone	
Sandstone and Shale  Sandstone  Sandstone and Siltstone  Sandstone and Siltstone  Sandstone and Siltstone  Sandstone, Shale and Lime  Sandstone and Shale  Sandstone and Shale  Sandy siltstone  Sandy Siltstone  Sandstone and Siltstone  800  900	ll fresh and gas
Sandstone  Sandstone and Siltstone  Sandstone and Siltstone  Sandstone, Shale and Lime  Sandstone and Shale  Sandstone and Shale  Sandy siltstone and Sandstone  Sandy Siltstone  Sandstone and Siltstone  800  900	
Sandstone and Siltstone  Sandstone and Siltstone  Sandstone, Shale and Lime  Sandstone and Shale  Sandy siltstone and Sandstone  Sandy Siltstone  Sandstone and Siltstone	<b></b>
Sandstone and Siltstone  Sandstone, Shale and Lime  Sandstone and Shale  Sandy siltstone and Sandstone  Sandy Siltstone  Sandstone and Siltstone  800  900	
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Sandstone and Siltstone 700 800 Sandstone and Siltstone 800 900	- **:
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Sanascone and Secoscone	
Siltstone 900 1000	
Sandstone and Siltstone 1000 1100	
Sandstone and Siltstone 1100 1200	
Sandstone and Siltstone 1200 1300	
Sandstone, Siltstone, & Lime 1300 1400	
Siltstone and Sandstone 1400 1500	
Sandstone and Siltstone 1500 1600	
Limy Sand 1600 1700	
Limy Sand 1700 1800	

(Attach separate sheets as necessary)

Rimrock Produciton C	orporation	
Well Operator	•	
•		
By:		
Date:		**************************************
DACE.		

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

FORM IV-35 (PEVERSE)

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

WELL LOG

REMARKS

and the contract of the contra		BOTTOM FEET	Including indication of all: fresh
FORMATION COLOR HARD OR SOFT	TOP FEET	DITOT ILLI	and salt water, coal, oil and cas
Souaw Sand	1802	1824	
Sandy Siltstone	1824	1900	
Sandy Siltstone	1900 - :	-2000	
Sandy Siltstone	2006	2100	. —
Sandy Siltstone	2100	2138	-
Sandstone	2138	2140	
Sany Siltstone	2140	2184	
Coffeee Shale	2184	2196	· · · · · · · · · · · · · · · · · · ·
Berea Sandstone	2196	2200	
Siltstone	2200	2300	-
Siltstone	2300	2400	2650 3947 2637 =
Siltstone	2400	2500	2000
Siltstone	2500	2600	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Siltstone	2600	2700	450 16 40 24 30=
Siltstone	2700	2800	1 (1/2 (1/4)) +-((1/4) A)
Siltstone	2800	-2900	urdiv. Java-
Siltstone	2900	3000	5400 argala
Siltstone	3000	3100	2200
Siltstone	3100	3200	The second secon
Siltstone	3200	3300	3200-7D.
Siltstone	3300	3400	
Siltstone	3400	3500	
Siltstone	3500	3600	
Siltstone	3600	3700	
Siltstone .	3700	3800	
Siltstone	3800	3900	
Siltstone	3900	4000	
Siltstone	4000	4100	
Siltstone	4100	4200	
Siltstone and Shale	4200	4300	
Siltstone	4300	4400	
Siltstone	4400	4500	
Siltstone	4500	4600	
Siltstone and Shale	4600	4700	
Siltstone and Shale	4700	4800	
Siltstone and Shale	4800	4900	
	1		§

(Attach separate sheets as necessary)

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18 de

OCT 18 1982

1825 b BLm 80-2195 Sanbury 70-4290 Human 290-4915 Jave-Angele

815-5010 Rhomestreet

140-5242 Generec

242-TD Orendaga

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

#### WELL LOG

• •	·		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shale	4900	. 5000	-
Siltstone and Shale	5000	5100	
Marcellus Shale	5110	5290	
Ononadaga	5290	5400	
		T.Þ.	
			9400 646 -4754 - Dubsta
			5290 646 4644-5ubsea top Once.

(Attach separate sheets as necessary)

Well Operator

By:

Mote: Regulation 2.02(i) provides as follows:

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

Date:

FORM IV 2 (0500000) (12-81)



Date:	June	<u> 22</u> . 19	82
Operator Well No	HOL	e #1	
			-000
. TIT 157 a	31 Na. 417	105	nuxy

State

County

Permit

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

	OIL AND GAS W	VELL PERMIT APPLICATION	<u>N</u>
WELL TYPE:	Oil <u> </u>		_ challens A
<b>6</b> -	(If "Gas", Production X	/ Underground storage/	Deep/ Snallow//
LOCATION:	Elevation: 646	Watershed: Lee Run	2 · · · · · · · · · · · · · · · · · · ·
ž.	District: Grant	County: WIRT	Quadrangle: 81,7abeth 7.5 IT Robert 2. Murdock
	OR fimmack Broduction		
Address	4424 & Emerson Quer	0 1	4 B Emerson avenue
•	Parkersburg, W. Va. S	06164 BAR	ersburg, w. 6. 26104
OIL & GAS	ner John W. Hale		none
KUIALII UW	R+-3	Address	
Address	Elizabeth WV.2	6143	
	234	COAL OWNER(S) W	VITH DECLARATION ON RECORD:
Acreage			
	NER John Hale	· · · · · · · · · · · · · · · · · · ·	
	<u>P+. 3</u>	Address	MECELVED
	8117a beth, 400	<u>26/93</u>	JUN 22 1982
Acreage	<u> 234</u>	Address	
	(IF MADE) TO:	Wantess	WV DEPARTMENT OF MINES
Address_	unknowh	COAL LESSEE WIT	TH DECLARATION ON RECORD:
	NSPECTOR TO BE NOTIFIED	Name 1004	
Name Cinh	1 1	Address	
Address			
Audiez	Grantsville W.D	6.26147	
	*		ion under a deed/ lease
The undersig	gned well operator is entitled to operate.	to the gas purposes at the device seems	maratar from Tintonstrile
C	-		operator from Interstate
(IF said doed)		corded:)	V. Dort
Recorded on	(1907) / / 5, 19 80, in the of	ffice of the Clerk of the County Commis	sion of County, West
Va., in	<u> 2004 Book 164 at pa</u>	ge <u> 533</u> . A permit is requested a	es follows:
PROPOSED	WORK: Drill / Drill deeper_	/ Redrill/ Fracture	or stimulate/
	Plug off old formation	/ Perforate new formation	
	Other physical change in w	ell (specify)	The state of the s
	—planned as shown on the	work order on the reverse side hereo	
· The above 1	named coal operator, coal owner(s), and	coal lessee are hereby notified that any c	bjection they wish to make or are required to
make by Cod	e \$22-4-3 must be filed with the Depar	tment of Mines within fifteen (15) days	s after the receipt of this Application by th
Department.			
Copies of th	his Permit Application and the enclosed	plat and reclamation plan have been mai	led by registered mail or delivered by hand t
			tiling or delivery of this Permit Application t
the Departm	ent of Mines at Charleston, West Vir	ginia.	
PLEASE SUI	BMIT COPIES OF ALL CAL LOGS DIRECTLY	Pimro	& Production Corp.

WEST VIRGINIA OIL AND GAS CONSERVATION COMMIS-SION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

Well Operator

### (12-81)

## THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

				Αđ	ldress		,		
									,
GEOLOGICAL									
Estimated	d depth	of comp	leted wel	11,	22 C	fe	et Rotary	/ Cat	ole tools/
Approxim	nate wat	er strata	depths:	Fres	h,	56_feet	; salt, <u>C</u>	feet.	
Approxim	nate coal	l seam d	epths:	NO	No	ls coal	being mined	in the area? Yes	/ No <u>×</u> /
CASING AND	TUBING	G PROG	RAM						,
	······								
CASING OR	n SDF	CIFICAT	IONS	9	8 8	I FOOTAGE	INTERV <b>ALS</b>	CEMENT FILL-UP	¶ PACKERS
TUBING TYPE		Grade	Weight	New	Used	For drilling		OR SACKS (Cubic feet)	- ACRERS
Conductor	113/4	010	45	X		250	250	075	Kinds
Fresh Water	<del>                                     </del>	0:0.1	23#	X		1200	1200	350 SKS	Baker
Coal	0 0	1 Erw				7800	1/200	10000	Sizes
Intermediate					-1-409-000				512.65
			10 #	1		^			
Production	4	1	10.5#	<u> </u>	and the second		12200	750sks.	Depths set 4000/
Tubing	12%	(cw	4.7#	X		0	4000		
Liners									Perforations: 65+ . DE PT
		-				and the second s			Top 2000 Bottom5<
	2		walk derroll 100 to the						
the D presc	epartmentibed by	nt, accom Regulat	panied by ion 12. o	y (i) a ir in :	plat in lieu th	the form presereof the othe	cribed by Reguer security allow	ur copies of Form IV-2 lation 11, (ii) a bond wed by Code § 22-4-1	in one of the forms 2. (iii) Form IV-9.
the D presc "Rec previ- Code	epartment ribed by lamation ously paid \$22-4-8 separate F	nt, accom Regulat Plan", a d on the s a from t Form lv-2	ipanied by ion 12, of applicable same well he owner shall not	y (i) a ir in it to the to the contract of ar be reconstructed.	plat in lieu the reclared regarder required to puired to	the form preserted the other amation required by Code; are well or dwe	cribed by Regular security allowed by Code \$ 2 \$ 22-4-12a, and (alling within 200) or stimulating a	lation 11, (ii) a bond wed by Code § 22-4-22-4-12b and Regulat (v) if applicable, the conference of the propose well where fracturing	in one of the forms 2. (iii) Form IV-9. ion 23. (iv) unless onsent required by d well. or stimulating is to
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