

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: VOGT, GREGORY

Operator Well No.: P. WRIGHT #4

LOCATION:

Elevation:

957.00

Quadrangle: WEST UNION

District:

CENTRAL

County: DODDRIDGE

Latitude: Longitude:

3600

Feet South of 39 Deg. 17 Min. 30 Sec.

6350

Feet West of 80 Deg. 50 Min. 0 Sec.

Company:

KEY OIL COMPANY

22 Garton Plaza

WESTON, WV 26452-0000

Agent:

JAN E. CHAPMAN

Dalliano

Inspector:	MIKE UNDERWOOD
Permit Issued:	06/18/97
Well Work Commenced:	11/10/97
Well Work Completed:	11/25/97
Verbal Plugging	
Permission granted on:	

Permission granted on:

Rotary X Cable Ri

Total Depth (feet) 5323'

Fresh water depths (ft) 78', 538'

Salt water depths (ft) NONE

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE

Casing & Tubing Size	Used in_ Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 ¾"	127.50'	127.50'	70 sks To Surface
8 5/8"	1580.10'	1580.10'	455 sks To Surface
4 1/2"	5279'	5279'	360 sks
2 3/8"		5129'	

OPEN FLOW DATA

Balltown	3680'	- 4398'
Rileys	4426'	- 4821'
Benson	4859'	- 4873'
Producing formation <u>Alexander</u>	Pay zone depth (ft) 5108'	- 5192'
Gas: Initial open flow103 MCF / d	Oil: Initial open flow 0	Bbl / d
Final open flow 1,508 MCF / d	Oil: Final open flow show	Bbl / d
Time of open flow between initial and fir	nal tests N/A	Hours
Static rock pressure 1800 psig (surface pr	ressure) after 96	Hours
Second producing formation Commingled	Pay zone depth (ft)	
Gas: Initial open flowMCF / d	Oil: Initial open flow	Bbl / d
Final open flow MCF / d	Oil: Final open flow	Bbl / d
Time of open flow between initial and fir	nal tests	Hours
Static rock pressure psig (surface pr	essure) after	Hours
p.s.g (p.		

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY

Date: April 18, 1998

PRESIDENT

MAY N. 4 1528

DODD 4376

P. Wright #4 (47-017-04379) Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (12 holes) (5149.75' to 5173.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 811 bbls foam.
2 nd Stage:	Benson (8 holes) (4866.25' to 4868') Third Riley (4 holes) (4791.75' to 4812')	60 Quality Foam. 750 gal 15% HCL. 50,000# 20/40 sand, 481,000 SCF N2, 712 bbls foam.
3 rd Stage:	Riley (10 holes) (4463.25' to 4475.75') Balltown (2 holes) (4369.50' to 4369.75')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 742 bbls foam.
4 th Stage:	Balitown (12 holes) (3876' to 3914.25')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Fill and Clay	0	14	
Sand & Shale & Red Rock	14	307	Damp @ 78'
Sand	307	346	. •
Red Rock & Shale & Sand	346	688	1/4" H ² O @ 538'
Sand & Shale	688	769	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Red Rock	769	857	
Shale & Red Rock	857	1700	
Sand & Shale	1700	1870	
Little Lime	1870	1896	
Shale	1896	1913	
Big Lime	1913	1969	Gas Checks
Big Injun	1969	2044	2507' - No Show
Shale	2044	2210	3003' - No Show
Weir	2210	2336	3716' - No Show
Sand & Shale	2336	2810	4427' - No Show
Gordon	2810	2820	4801' - 10/10 ^{ths} - 2" w/ H ² O
Shale & Sand	2820	3294	5110' - 10/10 ^{ths} - 2" w/ H ² C
Warren	3294	3344	TD - 6/10 ^{ths} - 2" w/ H ² O
Shale	3344	3356	
Speechley	3356	3475	
Shale	3475	3680	
Balltown	3680	4398	
Shale	4398	4426	
Riley	4426	4508	
Sand & Shale	4508	4756	
Third Riley	4756	4821	
Shale	4821	4859	
Benson	4859	4873	
Shale	4873	5108	
Alexander	5108	5192	
Sand & Shale	5192	5323	
T.D.	5323		

STATE OF WEST VIRGINIA

Page__or__

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1.1	Well Open	rator:	KEY OIL CO	MPANY 25	650	671 (1)
92	Operator	's Well N	umber:	P. WRIGH			evation: 957'
237	Well type	e: (a) O	il <u>X</u> / (or Gas	<u> </u>	Issue	06/18/97
		(b) I	f Gas: P	roduction Deep	X / Undergr	cound Storag Shallo	4 06(18197 ie /
	Proposed	Target F	ormation(s):AL	XANDER	<u></u> .	18
6)	Proposed	Total De	pth:	5600	_ feet		
7)	Approxim	ate fresh	water st	rata dept	hs: 85'		
8)	Approxim	ate salt	water dep	ths:	0-	C,	7
9)	Approxim	ate coal	seam dept	hs: N/A		 	200
10)	Does lan	d contain	coal sea	ms tribut	ary to act	ive mine?	Yes/ No_X/
11)	Proposed	Well Wor	k: DRILL	. STIMULATE	, PRODUCE	DUIIILLE	·····
12)							-
	_				NG PROGRAM		
TYPE	<u> </u>	SE	ECIFICATI	ONS	FOOTAGE I	NTERVALS	Gaviavid
		Size	Grade	Weight per ft.	For drilling		(cu. ft.)
Cond	iuctor	Size	Grade ERW			well_	
	iuctor sh Water			per ft.	drilling	well 0	(cu. ft.)
	sh Water	11 3/4	ERW	per ft.	drilling 30	957	(cu. ft.) OKN (Sef) 260 SKS. TO SURFACE 36(3)/9//3
Fres	sh Water	11 3/4	ERW	per ft.	drilling 30	957	(cu. ft.) OKN (Sef) 260 SKS. TO SURFACE 36(3)/9//3
Fres Coal	sh Water	11 3/4	ERW	per ft.	drilling 30	957	ounter)
Fres Coal	sh Water L ermediate duction	11 3/4 8 5/8	ERW ERW	per ft. 42 23	drilling 30	957	(cu. ft.) OKNIGE 260 SKS. TO SURFACE 38581811.3
Coal Inte	sh Water	11 3/4 8 5/8 4 1/2	ERW ERW	per ft. 42 23	drilling 30	957	(cu. ft.) OKNIGE 260 SKS. TO SURFACE 38581811.3
Eres Coal Inte	sh Water crmediate duction ing ers	11 3/4 8 5/8 4 1/2 1.5	ERW ERW	per ft. 42 23	drilling 30	957	(cu. ft.) OKNIGE 260 SKS. TO SURFACE 38581811.3
Eres Coal Inte	sh Water Lermediate duction ing ers KERS : Kin	11 3/4 8 5/8 4 1/2 1.5	ERW ERW J-55	23 10.5	drilling 30	957 957 5400	(cu. ft.) OKNIGE 260 SKS. TO SURFACE 38581811.3
Fres Coal Inte	sh Water ermediate duction ing ers KERS : Kin	11 3/4 8 5/8 4 1/2 1.5	ERW ERW J-55	23 10.5	30 957 and Gas Use	957 957 5400	(cu. ft.) OKNIGE 260 SKS. TO SURFACE 38581811.3

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1)	Date: MAY 19, 1997
1) 2)	Operator's well number
3)	P. WRIGHT #4 API Well No: 47 - 017 - 4379
•	State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

	NOTICE AND APPLICATION FOR A W	ELL WORK PERMIT CALL
4)	Surface Owner(s) to be served: 5) (a) Coal Operator (a) Name GREGORY VOGT Name Address RT. 1 BOX 30AB Address	
	(b) Name (b) Coal Ow Name Address	ner(s) with Declaration
	(c) Name	
6)	Inspector MIKE UNDERWOOD (c) Coal Les	ssee with Declaration
	TO THE PERSON(S) NAMED ABOVE	TAKE NOTICE THAT:
Virgi this	Included is the lease or leases or other continuing to extract oil and gas OR Included is the information required by Chapter 22, inia (see page 2) I certify that as required under Chapter 22 of the V notice and application, a location plat, and accompassove named parties, by: Personal Service (Affidavit attached) Certified Mail (Postmarked postal receipt att Publication (Notice of Publication attached)	Article 6, Section 8(d) of the Code of West Vest Virginia Code I have served copies of nying documents pages 1 through on
info	I have read and understand Chapter 22-6 and 38 additions of any permit issued under this application. I certify under penalty of law that I have personation submitted on this application form and all at see individuals immediately responsible for obtaining thrue, accurate, and complete. I am aware that there are significant penalties for	onally examined and am familiar with the tachments, and that based on my inquiry of the information, I believe that the information
pos	ssibility of tine and imprisonment	OIL COMPANY
	Address PRESIDENT Address 22 GART WESTON.	ON PLAZA WV 26452
	Telephone 304-269 ubscribed and sworn before me this 19THday of Town	OFFICIAL SEAL NOTARY PHIBLIC STATE OF WEST LIB CHILD UDIC AGENCORY
My	y commission expires MARCH 24, 2003	My Commission Expires Mar. 24, 2003