



Deep Well

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

Permit No. K AN \$564 Clendenin Q uad.

Gas

Company	United Fuel Gas			SING & TUB	ING
Address	Box 1273, Charl				7 0
V. •	uma Block Coal Co	* *		' A	14
Location	Mile Fk. of Ind		10 3/	432	1.41.6
Well No.		lev. 963.24	0 5/0		Pulled
District	•	- Kanawha	8 5/8		2002
Mineral	Marcia E. Widme		5 1/2		5103
	4820 Wornall Ro	ad, Kansas Ci	ty, Mo.		
Commenced	8/6/51				
Completed	2/29/52	a me like			
Open Flow	110/10ths Water	'in '''			
Volume	4,525 M				
R. P.	900E 24 hrs.				
Surface	0	10	Lime	1469	1507
Clai	10	30	-Maxon Sand	1507	1537
Sand	30	55	-Little Lime	1537	1567
Slate	5 5	70	Slate	1567	1571
Sand	70	85	Lime	1571	1577
Slate	გ5	130	Pencil Cavea	1577	1581
Sand	130	140	Big Lime	-1561	1736
Black Slate	1.40	152	Slate & Shells	1736	1745
-Goal	152	155	Injun Sand	17 45.	1787
Slate	155	175	Lime	1787	1796
Sand	175	210	_Squaw Sand	1796	1845
Slate	210	255	-Woir Sand	1 845	1982
Sand	255	275	Slate & Shells	1982	2135
Slate	275	315	- Brown Shale	21.35	2141
Sand	315	330	~Berea Shells	2141	2 46 -
Slate	330	340	Slate & Shells	2146	3320
Sand	340	365	Brown Shale	3320	3412
Slate	365	376	Lime Shells	3412	3842
Sand	378	492	Brown Shale	3642	4150
Slate	492	540	White Slate	4150	4517
Lime	540	560	Shalo	4517	50 66
Slate & Shell		650	- Corniferous Lime	50 66	5188
~ Coal	650	654	Oriskany Sand	5 1 88'	5217
Lime	654	760	TOTAL DEPTH	52 17	
Slate	760	835			
- Gas Sand	835	917	Water 315		
-Salt Sand	917	1351	Hole full water 930		
Slate	1351	1366	Show of water 1660		E0 14
Sand	1366	1386	Gas 5203-5206 38/1		
Slate	1 366	1390	Gas 5206-5210' 80/1	.0 W 7" 22#	3,858 M
Lime	1390	1456	Gas 5210-5212 80/1		
White Slate	1456	1466	Gas 5212-5215 incr		TO/TO
Red Rock	1. 466	1469	W 7" 4,525		m o m **
			Gas 5215-5217 110/	10 W 7" 4,	DZD M

FINAL OPEN FLOW - 4,525 M - Oriskony 24 Hr. R.P. 900#

	W "	DIVI	SION OF E	STAI NV RONMEN	TAL PROTE		ICE OF OIL	039 1564 AND GAS	+D
1/4	1)	Wall On	erator: (Columbi	ORK PERMIT			6450	258
	2)	_	r's Well		7109	Iransm		Elevation:	9/2'
	4)	_	pe: (a)	4th state of the s	or Ga		lsa	red 01/13to	
		**************************************	_			eggistativiness .	Gyp. ground Stor	res 01/13/9	9
			(20)	ಯ ಎಂ ಆರ್ ೬ನ ಕನ್ ೦ ∠	Dee	pX/	ground Stor Shal	low_/	
	e 1	Propose	d Target	Formation	(s): <u>Oc</u>	skany 5	and stone		A A
	23044	Propose	d Total D	epth:	5325	feet		OF CONTROLLS	er of Eld
	23	Approxi	mate fres	h water st	rata dep	ths:	N/A	0.8.7	Cischon .
	Approximate salt water depths: N/A								
	Approximate coal seam depths: 152-155 656-654 Gg								
)) Does land contain coal seams tributary to active mine? Yes / No X/								
	11)								
	12)	casing and Tubing Program							
	***			7425		TIAG EVOCKUL	• 9/hs	times All in	5C)
	TYPE		SI	PECIFICATI	ONS	POOTAGE 1	NITEDVATE		COLUMN .
	TYPE		Sì	PECIFICATI		FOOTAGE 1		CEM	
	TYPE		Size	PECIFICATI Grade	Weight per ft.	For drilling	Left in		p p
	Condu	ıctor	Size		Weight	For drilling	Left in well	Fill-u (cu. f	p p
	Condu	ictor	Size		Weight	For drilling	Left in	Fill-u (cu. f	p p
	Condu		Size 1336" 1034"		Weight	For drilling (4'	Left in well	Fill-u (cu. f	p p
	Condu Fresh		Size 1336" 1034" 856"		Weight per ft.	For drilling 14' 1416' 2002'	Left in well 14' 0-full	Fill-u (cu. f	p
	Condu Fresh Coal	Water	Size 1336" 1034"		Weight per ft.	For drilling (4'	Left in well 14'	Fill-up (cu. f	p
	Condu Fresh Coal	mediate	Size 1336" 1034" 856"		Weight per ft.	For drilling 14' 1416' 2002'	Left in well 14' 0-full	Fill-up (cu. fr	p
	Condu Fresh Coal Inter	mediate	Size 1336" 1034" 856"		Weight per ft.	For drilling 14' 1416' 2002'	Left in well 14' 0-full	Fill-up (cu. fi	p
	Condu Fresh Coal Inter Produ	mediate action ag as	Size 1336" 1034" 856" 512"	Grade	Weight per ft.	For drilling 14' 1416' 2002'	Left in well 14' 0-full	Fill-up (cu. fr	p
	Condu Fresh Coal Inter Produ Tubin Liner	mediate action ag :s :RS : Kir	Size 1336" 1034" 856" 512"	Grade	Weight per ft.	For drilling 14' 1416' 2002'	Left in well 14' 0-full	Fill-up (cu. fr	p
	Condu Fresh Coal Inter Produ Tubin Liner	mediate action ag :s :RS : Kir	Size 1336" 1034" 856" 512" add tes ths set	Grade C. H. 10	Weight per ft. 24 15.5	For drilling 14' 1416' 2002'	Left in well 14' Oful	Fill-up (cu. fr	p
	Condu Fresh Coal Inter Produ Tubin Liner	mediate action ag s RS: Kir	Size 1336" 1034" SEE 512" odd ces oths set	Grade C. H. 12 or Office	Weight per ft. 24 15.5	For drilling (4' 1416' 2002' 5103'	Left in well 14' Oful	Fill-up (cu. fr	p
	Condu Fresh Coal Inter Produ Tubin Liner	mediate action ag s RS: Kir Siz Der	Size 1336" 1034" SEE 512" odd ces oths set	Grade C. H. 12 or Office	Weight per ft. 24 15.5 of Oil ark Permit	For drilling (4' 1416' 2002' 5103'	Left in well 14' Co-full 2002/ 5103'/	Fill-up (cu. fi	£.)

Page 1 of_ Form WW2-A (6/94) File Copy DEC 27 1996

Permitting

1) Date: 10/29/96

2) Operator's well number COCO- WELL # 7109

3) API Well No: 47 - 039 - 01564 - 10 State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner (s) to be served:	5) (a) Coal Operator:
a) Name <u>James Edra & Ila Mae Shinn</u>	Name
Address 221 A Coopers Drive	Address
Charleston, WV 25302	
b) Name_William E. & Thelma I. Shinn	(b) Coal Owner (s) with Declaration
Address 214 Coopers Drive	Name Columbia Natural Resources
Charleston, WV 25302	Address P. O. Box 6070
c) Name	Charleston, WV 25362-0070
Address	Name Mount Storm Energy, Inc.
	Address 107 Azalea Road
	Elkview, WV 25071
6) Inspector Carlos W. Hiviely	
Address 223 Pinch Ridge Road	(c) Coal Lessee with Declaration
	Name
Elkview, WV 25071 Telephone (304) - 965-6069	Address 0 0 0 M/C
	id 1/0/1000 11
TO THE PERSON (S) NAMED ABOVE TA	AND COLL SONCE
Included is the lease or leases or oth	er continuing contract or
contracts by which I hold the right to extr	
X_Included is the information required by	
8(d) of the Code of West Virginia (see page	
I certify that as required under Chapte	
I have served copies of this notice and ap	
accompanying documents pages 1 through o	n the above named parties, by:
Personal Service (Affidavit attached)	
X Certified Mail (Postmarked postal r	
Publication (Notice of Publication a	
I have read and understand Chapter 22-6	and 38 CSR 11-18, and I agree
to the terms and conditions of any permit	
I certify under penalty of law that I have	ve personally examined and am
familiar with the information submitted on thi	
attachments, and that based on my inquiry	
responsible for obtaining the information, I be	elieve that the information
is true, accurate, and complete.	
I am aware that there are conficent	penalties for submitting false
information including the possibility of fine a	ind imprisonment.
information, including the possibility of fine a OCTACH PUBLIC By:	COLUMBIA GAS TRANSMISSION CORP.
NOTAL SEAL BY:	INSCII.
STATE OF WEST VIRGINIA Its: Sto	rage Engineer / Well Services
PATRICIA A. TURKETT > Address P	D. Box 1808
	Albans, WV 25177-1808
Server 12 1307	14) 722-8612
Subscribed and sworn before me this	day of Moulinles, 19 96
Subscribed and Sworth before the tills	and of promovers, is fell
Patrices de Turke	Notary Public
My commission expires	1997 Notally Public
ing commission expires	

07-Jan-97 API # 47- 39-01564 D

JAN 2 1 1998

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

Permitting Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: EDRA, JAMES/ILA M. SHINN Operator Well No.: 7109

Elevation: 963.24 Quadrangle: BLUE CREEK LOCATION:

> County: KANAWHA District: ELK

Latitude: 10000 Feet South of 38 Deg. 25Min. 0 Sec. Longitude 500 Feet West of 81 Deg. 27 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION

P. O. BOX 1273

CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY

Permit Issued: 01/13/97 07/16/97 Well work Commenced:

Well work Completed: 12/04/97

Verbal Plugging

Permission granted on:

Rotary Cable Total Depth (feet) 5217' Fresh water depths (ft)

Not Reported

Salt water depths (ft)
Not Reported

Is coal being mined in area (Y/N)?N Coal Depths (ft): Not Reported

Casing &	Used in	Left	Cement Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size			
13_3/8"		14"	1
8 5/8"		2002	50sx
5 1/2"		5103'	787SX
2 3/8"		5087*	
			*

OPEN FLOW DATA

Producing formation ORISKANY STORAGE	Pay zone depth (ft) 518	8' - 521
Gas: Initial open flow MCF/d Oil:	Initial open flow	Bb1/d
Final open flow MCF/d	Final open flow	Bbl/d
Time of open flow between initial	and final tests	Hours
	ace pressure) after	Hours
Second producing formation	Pay zone depth (ft)	*6.0
Gas: Initial open flow MCF/d Oil:	Initial open flow	Bb17d
Final open flow MCF/d	Final open flow	Bbl/d
Time of open flow between initial	and final tests	Hours
	ace pressure) after	Hours

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:	COLUMBIA	GAS TRANSMISSION	CORP.
	- '	$()()() \cdot () \cdot ()$	
	By: Ar	white -	
	Date:	1-15-98	

Pulled 5807' of 2.3/8" tubing, installed new 8 5/8" X 5 1/2" API 3000 wellhead. Stimulated ORISKANY with N 2 Assist Deltafrac using 414 bbls water, 131 mscf N 2 , and 11,500 lbs 20/40 sand, and snubbed in 5087' of 2 3/8" tubing.

Lander Store (1975) (19

Service Company No II work Complement Well work Complement

CERTAL PERÈC MENTA

PORTO LANGUAGO DE CONTROL DE CONT

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